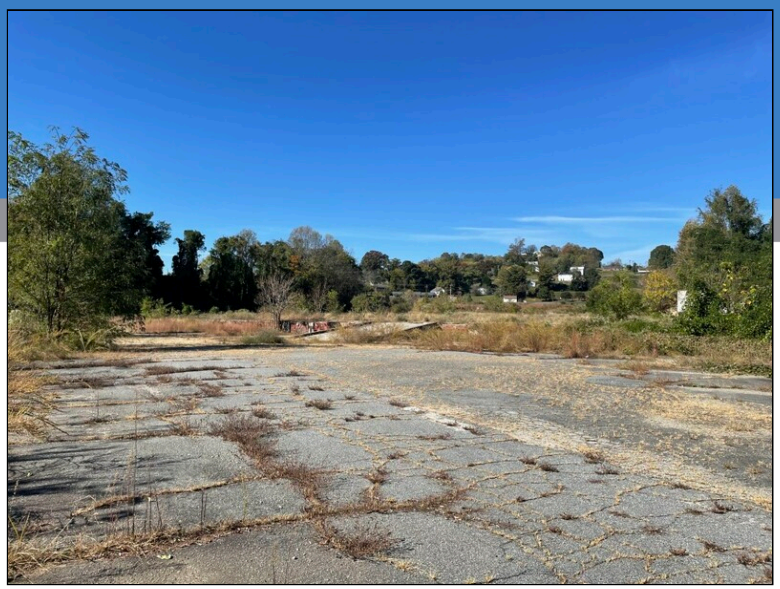
PHASE I ENVIRONMENTAL SITE ASSESSMENT



FORMER DREXEL MILL PROPERTY

70 BLUE RIDGE STREET
MARION, NORTH CAROLINA 28752

ECS PROJECT NO. 49:18711

FOR: CITY OF MARION

NOVEMBER 16, 2022

November 16, 2022

Heather Cotton
City of Marion
194 North Main Street
Marion, North Carolina 28752

ECS Project No. 49: 18711

Reference: Phase I Environmental Site Assessment Report, Former Drexel Mill Property, 70 Blue Ridge Street, Marion, McDowell County, North Carolina 28752

Dear Ms. Cotton:

ECS Southeast, LLP (ECS) is pleased to provide you with the results of our Phase I Environmental Site Assessment (ESA) for the referenced site. ECS's services were provided in general accordance with ECS Proposal No. 49:34159P authorized on October 11, 2022 and generally meet the requirements of ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, which ECS believes to be in accordance with EPA Standards and Practices for All Appropriate Inquiries contained in 40 CFR Part 312.

If there are questions regarding this report, or a need for further information, please contact the undersigned.

Sincerely,

ECS Southeast, LLP

James C. Bevers, PE
Environmental Project Manager
jbevers@ecslimited.com
828-665-2307

David E. Valentine, REM, PWS
Environmental Principal
dvalentine@ecslimited.com
704-525-5152

Project Summary

Former Drexel Mill Property
70 Blue Ridge Street
Marion, North Carolina 28752

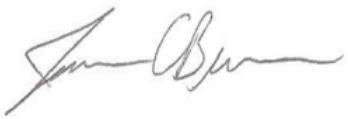
Report Section		No Further Action	REC	CREC	HREC	BER	Comment
4.0	User Provided Information		✔			✔	ECS considers the on-site USTs and OWS to represent a REC for the subject property. ECS considers remaining asbestos-containing materials to be a BER.
5.1	Federal ASTM Databases	✔					
5.2	State ASTM Databases		✔	✔	✔		ECS considers the documented impacts and potential for unidentified impacts from the former mill operations to represent a REC. ECS considers the potential for impacts from the open off-site Willwear Hosiery Manufacturing Co Inc listing to represent a REC. ECS considers the on-site UST and LAST listings to represent an HREC. ECS considers the on-site LUST listing to represent a CREC.
5.3	Additional Environmental Record Sources		✔				ECS considers the documented impacts and potential for unidentified impacts from the former mill operations to represent a REC.

Report Section		No Further Action	REC	CREC	HREC	BER	Comment
6.0	Historical Use Information		✔			✔	ECS considers the historic use of the subject property as a manufacturing facility to represent a REC. ECS considers the potential for impacts from the historic use of the northern adjoining property as a manufacturing facility to represent a REC. ECS considers the potential for impacts from the historic use of the northwestern adjoining property as a manufacturing facility to represent a REC. ECS considers the potential for PFAS contamination resulting from the prior industrial use to represent a BER.
7.0	Site and Area Reconnaissance		✔				ECS considers the historic use of the subject property as a manufacturing facility to represent a REC. ECS considers the on-site USTs and OWS to represent a REC. ECS considers the former Willwear Hosiery facility on the northern adjoining property to represent a REC. ECS considers the O'Reilly Auto Parts/RK's Automotive which appears to be a former fueling service station and is an automotive repair shop located to the north to represent a REC.
8.0	Additional Services	✔					

Report Section		No Further Action	REC	CREC	HREC	BER	Comment
9.0	Interviews		✔				ECS considers the historic use of the subject property as a manufacturing facility to represent a REC for the subject property.

ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



James C. Bevers, PE
Environmental Project Manager
November 16, 2022



David E. Valentine, REM, PWS
Environmental Principal
November 16, 2022

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1.0 EXECUTIVE SUMMARY

ECS Southeast, LLP (ECS) was contracted by City of Marion to perform an ASTM E1527-21, Phase I Environmental Site Assessment (ESA) of the Former Drexel Mill Property located at 70 Blue Ridge Street in Marion, McDowell County, North Carolina (i.e. subject property). This Executive Summary is an integral part of the Phase I ESA report. ECS recommends that the report be read in its entirety.

The subject property is identified by McDowell County Online Geographic Information Systems (GIS) website as Parcel Identification Number (PIN) 1701-10-46-6003 and is owned by City of Marion and McDowell County. The approximately 15.29-acre subject property is currently vacant land. Building pads from the prior development are present on the subject property. The subject property is serviced by municipal water and sanitary sewer. ECS observed an underground storage tank (UST) basin which consists of four USTs and an oil-water separator (OWS) located on the central portion of the subject property. The USTs reportedly previously contained heating oil for a boiler associated with the former industrial facility.

The subject property is located in a mixed commercial and residential area of Marion, North Carolina. Based on our review of site topography and conditions observed during the site reconnaissance, it is our opinion that properties to the north, northwest, and west are presumed to be hydrogeologically up-gradient of the subject property. The subject property is bound on the north by Blue Ridge Street, beyond which is a grocery store, an **unmarked commercial/industrial building formerly occupied by the Willwear Hosiery facility**, a church and a residential neighborhood. An O'Reilly Auto Parts/ RK's Automotive is located further north which is a current **automotive repair** and appears to be a **former service fueling station.** The subject property is bound on the east by railroad tracks, beyond which is Bryant & Young Lumber, on the south by a residential neighborhood and open vegetated area; and on the west by Carson Street, beyond which are apartments, residences, and Blue Ridge Terrace, which is an apartment complex to the northwest. ECS did not identify environmental issues associated with current occupants or activities at adjoining or nearby properties that are believed to present a recognized environmental condition (REC) at the subject property with the exception of the northern adjoining former Willwear Hosiery facility and automotive repair facility/former fueling station.

Based on the records search, site reconnaissance and interviews, it appears that the subject property was utilized as vacant land as early as 1894. By 1902, the Western Furniture Co is located in the eastern portion of the property and the remainder of the property is vacant land. In 1922, the property is occupied by Drexel Furniture Co Mill No 2 and Marion Veneer and Panel Company. In 1928, the property is also occupied by the Teague Furniture Company. By 1939, the property is occupied by Drexel Furniture Company. The subject property operates as Drexel Furniture Co through 2004, when the property is purchased by Marion Property LLC. The property is then vacant and portions of the on-site buildings were demolished. The property was transferred over to McDowell County and the City of Marion in 2014. In 2018, the remaining on-site structures were demolished and the property appears as it does currently as undeveloped, vacant land. ECS considers the historical use of the subject property as an industrial facility to be a REC. Historical records prior to 1894 were not reasonably ascertainable for the subject property.

Historical aerial photographs depict apparent industrial structures on the subject property that were not located on the subject property during our site reconnaissance. ECS does not have technical evidence how these structures were heated, or if the structures utilized septic tanks or water supply wells. Based on the age, it is possible that the structures were heated with oil stored in USTs. ECS did not observe evidence of septic tanks, or water supply wells during our site reconnaissance. While not considered a REC at this time, if encountered during site development additional unidentified, USTs, septic systems, and water supply wells should be closed in accordance with applicable laws.

The surrounding area has developed slowly from a primarily undeveloped and commercial area that transitioned to a mixed residential and commercial area by the 1920s. The northern adjoining property was occupied by the Daisy Glove Mill in 1918 and a varnish and oil house in 1922. By 1939, the northern adjoining property was occupied by R.L. James and Son Knitting Mill (also known as Willwear Hosiery), which operated through 1956. The upgradient, northwestern adjoining property was occupied by a hosiery mill from 1922 through 1939. Based on the distance and topographic relation to the subject property, ECS considers these former mills to represent RECs for the subject property.

A Phase I Environmental Site Assessment was conducted by Tetra Tech in March 2016 as part of the Brownfields Property Application. According to the report reviewed, the subject property was developed with mostly demolished buildings with piles of rubble and building foundations covering majority of the site and had historically been utilized for various furniture, cabinet, and laminate manufacturing operations with portions of the property operating as furniture manufacturing since at least 1902. This Phase I identified several RECs including: the presence of a fuel oil UST on the subject property, the presence of an OWS on the subject property, the presence of additional USTs or former aboveground storage tanks (ASTs) on the subject property, the aluminum-clad steel frame building with numerous 55-gallon drums and smaller containers, an on-site brick building that contained 55-gallon drums located along Blue Ridge Street east of the office building, and fluorescent light bulbs and fixtures throughout the on site building and the potential presence of polychlorinated biphenyls (PCBs) and mercury in the bulbs. Additionally, a regulatory database search identified the subject property on the Leaking Aboveground Storage Tank (LAST) and Leaking Underground Storage Tank (LUST) database and a documented release from the historical operations of the fuel oil and fuel USTs were considered to represent a REC. Additional RECs included: 15 UST or AST sites within 0.25 miles of the site and upgradient of the site, the presence of an automotive repair property 0.03 miles north of the site, and a dry cleaner 0.136 miles northeast of the site. ECS cannot attest to the accuracy of the information reviewed.

ECS conducted a File Review for the subject property in August 2017 (ECS Project Number 49:3978-A). Based on the file review conducted, ECS recommended the following:

- Additional assessment in the form of the removal of the two USTs and associated product piping followed by soil and groundwater sampling;
- The removal of the buried #5 fuel oil waste and collecting closure soil and groundwater samples;
- Soil and groundwater sampling in the vicinity of the former gasoline UST located on the northern portion of the subject property;
- Soil and groundwater sampling in the vicinity of the former 3,000-gallon AST located east of the chemical storage building;

- The removal of the OWS followed by soil sampling;
- The characterization, removal and disposal of 55-gallon drums and their contents observed in the aluminum-clad steel frame building and in the vicinity of the chemical storage building;
- Soil and groundwater sampling in the former drum locations associated with the aluminum-clad steel frame building;
- Soil sampling of the heavy staining observed in the aluminum-clad steel frame building;
- Soil sampling in the vicinity of the former drum rack located west of the chemical storage building and south of the office building; and
- Groundwater and soil sampling south of the former Willwear Hosiery facility.

ECS conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). The report indicated that 21 soil borings were advanced at the subject property and 12 permanent monitoring wells were installed. Laboratory analysis indicated soil sample GP-5, which was collected in the vicinity of the USTs and OWS located on the central portion of the subject property detected several petroleum compounds, including benzo(a)anthracene above its Soil-to-Water Maximum Soil Contaminant Concentration Level (MSCC), but below it's Residential MSCC. Laboratory analysis of soil sample GP-6, collected from the vicinity of the drums and staining within the aluminum-clad steel frame building located on the southwestern portion of the subject property, detected several petroleum compounds including P-isopropyltoluene, naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene at concentrations above their respective Soil-to-Water MSCCs, but below their Residential MSCCs. Laboratory analysis of soil samples GP-7D and GP-8 indicated arsenic, chromium, and selenium at concentrations over 2.5 and 8 times the highest background soil sample. Chromium was also detected in soil sample GP-19 at a concentration of over 6 times the highest background soil sample. These elevated concentrations were likely due to previous activities conducted at the former facility. Laboratory analysis of the groundwater sample MW-5, which was collected on the northern portion of the subject property, downgradient of the former UST and SVE/AS system and former Willwear Hosiery Manufacturing Company detected several petroleum compounds. Benzene, ethylebenzene, naphthalene, toluene, total xylenes, 1-methylnaphthalene, and 2-methylnaphthalene were detected at concentrations above their respective NC 2L Groundwater Quality Standards, but below their applicable Gross Contaminant Levels (GCLs).

ECS conducted an Asbestos Abatement Specification report for the subject property in March 2018 (ECS Project Number 49:3978-D). The report detailed the removal of asbestos-containing materials (ACM) that was previously detected on the subject property. As ACM was comingled among debris at the subject property, there is a potential that ACM remains at the subject property. ECS considers the potential presence of ACM to be a business environmental risk (BER).

ECS conducted a UST and OWS Fluid Removal and Disposal Report for the subject property in August 2019 (ECS Project Number 49:3978-F). The report indicated that a group of four USTs and the OWS were located in the central portion of the property. Three of the USTs have capacities of approximately 30,000-gallons and one has a capacity of approximately 20,000-gallons. Approximately 31,296 gallons of #6 oil and water mixture were removed from the USTs and OWS and transported to HOH Corporation in Winston-Salem, NC for disposal. The USTs and OWS openings were covered with plywood anchored down by concrete screws to prevent rainwater from entering the USTs and OWS and to prevent injuries. In addition, a total of eight drums were identified in various locations on

the property including in and in the vicinity of the former chemical building and in the vicinity of the former aluminum clad building. The drums contained cleaners and #2 tool oil. Approximately 2,000 pounds of fluid were transported to the DHG facility in Greensboro, NC for disposal.

ECS conducted a Soil Remediation Report for the subject property in August 2019 (ECS Project Number 49:3978-F). The report indicated that approximately 74.68 tons of petroleum impacted material was excavated and disposed of at an approved facility from an active petroleum release area in the central portion of the subject property. Following excavation activities, ECS collected a confirmatory soil samples. Laboratory analysis of the soil samples indicated VOCs, SVOCs, RCRA Metals, Mercury, and Hexavalent Chromium at concentrations above Protection of Groundwater, Residential and Industrial/Commercial Health Based PSGRs in the northern, eastern, and western walls of the excavation from prior uses of the property. ECS considers the documented contamination present on the subject property to represent a REC for the subject property.

A regulatory database search report was provided by Environmental Database Resources, Inc. (EDR). The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property.

The **subject property** is identified on the LAST database as **Drexel Heritage #2-#5 Fuel Oil** at **Drexel Heritage #2** and has a UST Number of AS-88134. This facility has a recorded petroleum release in April 1994 that received a No Further Action (NFA) letter in May 1995. ECS requested files associated with this release from the North Carolina Department of Environmental Quality (NCDEQ). At the time of the issuance of this report, ECS has not received files associated with this listing. According to a site plan previously provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. ECS previously conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). Laboratory analysis of soil samples collected in the vicinity of the former AST indicated arsenic, chromium, and selenium; however, background soil samples collected from the northeastern portion of the subject property detected arsenic, chromium, and selenium at similar concentrations. A groundwater sample, MW-6, was also collected in the vicinity of the former AST. Laboratory analysis of this sample indicated concentrations of targeted constituents (chloroform, barium, and chromium) above laboratory detection limits, but below NC 2L Groundwater Quality Standards. Based on the closed out status of this release as well as the historic sampling conducted in the vicinity of the former AST, ECS considers this listing to represent an historical recognized environmental condition (HREC) for the subject property.

The **subject property** is identified on the LUST database as **Drexel Heritage #2** at **361 Blue Ridge Street** and has a UST Number of AS-1008. This facility has a recorded petroleum release in October 1992 during the removal of an approximately 550-gallon UST for gasoline that received a NFA letter in January 1998. According to files reviewed from the NCDEQ, six quarterly monitoring reports were completed by ERM-Southeast, Inc from January 1995 through July 1996. The reports indicated at least eleven monitoring wells were installed and the groundwater flow direction was determined to flow towards the south or southeast. In January 1995, approximately 0.06 feet of free product was observed in monitoring well MW-8, located south of the chemical storage building. Total benzene, toluene, ethylbenzene, and

xylenes (BTEX) was detected in the monitoring wells sampled. In May and June 1995, a soil vapor extraction/air sparging (SVE/AS) groundwater remediation system was installed at the subject property. In July 1995, free product seepage was observed at the base of the retaining wall located adjacent to the south wall of the chemical storage building. This seepage and free product previously noted appears to be related to the January 1994 fuel oil release from the Willwear Manufacturing property. By October 1995, the SVE/AS system was operating and a decreasing trend of targeted constituents was observed. Additional monitoring was conducted and the SVE/AS system was non-operational for a period of time due to a water main rupture. On April 21, 1998, the NCDEQ provided a NFA letter for this release. The NFA was provided based on a report which shows soil contamination is below the industrial/ commercial MSCCs and groundwater contamination is below the GCLs; however, the NFA notes that groundwater is not suitable for use as a water supply. Based on the NFA status of this release with a groundwater restriction, ECS considers this listing to represent a controlled recognized environmental condition (CREC) for the subject property.

The **subject property** is identified on the UST database as **Westwood NC II LLC** at **70 Blue Ridge Street** and has a Facility ID of 00-0-0000025221. This facility is identified as having three 25,000-gallon USTs for fuel oil that were installed in 1975 and have not been removed and one 5,000-gallon UST for non-petroleum products that was installed in 1960 and has not been removed. This facility is also identified as having one 8,000-gallon UST for was oil that was installed in 1975 and removed in 1992, one 550-gallon UST for gasoline that was installed in 1983 and removed in 1993, one 1,000-gallon UST for diesel fuel that was installed in 1981 and removed in 1992, one 6,048-gallon UST for lacquer thinner that was installed in 1961 and removed in 2002, and one 8,000-gallon UST for naptha that was installed in 1961 and removed in 1992. A UST Closure Report was completed by Shield Environmental Associates and was dated April 23, 2003. The diesel fuel, lacquer thinner, and naptha USTs were located between a building and a lumber pile south of the main facility and the gasoline UST was located north of the main facility, near the front gate. Upon removal of the diesel UST, no release was identified. Two soil samples were collected from the base of the excavation and were analyzed for Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO). Laboratory analysis detected concentrations of petroleum below North Carolina Action Levels.

Upon removal of the lacquer thinner, naptha and gasoline USTs odors were identified in the soil indicative of a release and impacted soil was subsequently removed. Ten cubic yards of impacted soil were removed from the based of each of the lacquer thinner and naptha USTs excavations and 85 cubic yards of soil was removed from the base of the gasoline UST excavation. Following soil removal associated with the lacquer thinner UST, one soil sample was collected from the base of the excavation and analyzed for RCRA metals, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). In addition, VOCs and SVOCs were also analyzed according to the Toxicity Characteristic Leachate Procedure (TCLP). RCRA metals, VOCs and SVOCs were not detected at concentrations above the laboratory reporting limits; however, the TCLP VOC and SVOC analysis detected several compounds at concentrations below the Federal TCLP regulatory limits.

Following soil removal associated with the naptha UST, three soil samples were collected from the base of the excavation and analyzed for TPH DRO and GRO. Laboratory analysis detected TPH DRO and GRO at concentrations below the North Carolina Action Levels. Following soil removal associated with the gasoline UST, two soil samples were collected from the base of the excavation and analyzed for TPH GRO. Laboratory analysis detected concentrations of TPH GRO above the North Carolina Action Level.

The excavations associated with the diesel fuel, lacquer thinner, and naptha USTs were backfilled with clean material. The Shield report does not indicate that the gasoline UST excavation was filled with clean material. Additionally, the report does not indicated if the contaminated soils removed from the lacquer thinner, naptha, and gasoline UST excavations were disposed of off-site or treated and used on-site. The report indicated that Shield was conducting additional soil and groundwater assessment in the vicinity of the gasoline UST excavation; however, the report associated with the soil and groundwater assessment was not available for review. ECS considers the sampling in the vicinity of the diesel, lacquer thinner, and naptha USTs to be sufficient and does not consider this listing to represent a REC. For more information regarding the gasoline UST, see the subject property's LUST listing.

The **subject property** is identified on the Brownfields database as **Drexel Heritage** at **70 Blue Ridge Street** and has a Project ID of 20072-16-056. This facility is also identified on the US Brownfields database as **Drexel Mill/Drexel Heritage Furniture.** According to files available from the NCDEQ, the City of Marion submitted a Brownfields Property Application for the subject property in September 2016. At the time of the application, the City of Marion was in the process of acquiring the subject property from the former owner, who partially demolished buildings and structures on the property, but did not have the funds in order to fully cleanup the subject property. A Phase I Environmental Site Assessment was conducted by Tetra Tech in March 2016 as part of the Brownfields Property Application and is previously discussed. On November 3, 2016, this facility received a Letter of Eligibility into the Brownfields program and is listed as Active Eligible. ECS considers the documented impacts and potential for unidentified impacts from the former mill operations to represent a REC.

The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, issues associated with the listings in the database report are not believed to represent a REC for the subject property with the exception of the following:

Willwear Hoisery Mfg. Co Inc, 360 Blue Ridge Street - This facility is located adjoining to the north and topographically upgradient to the subject property. This facility is identified on the LAST and IMD database and has a UST Number of AS-11940. This facility is identified as having a recorded petroleum release in January 1994 that has not received an NFA letter. ECS reviewed files from the NCDEQ associated with this facility. According to the files reviewed, a release of approximately 2,000-gallons of heating oil occurred on January 21, 1994. A UST Closure Report was conducted by Alpha Environmental Sciences, Inc on April 10, 1995. One 8,000-gallon UST and one 550-gallon AST were removed and a new AST was installed. Approximately 294 tons of contaminated soil was excavated around the fill pipes, product lines, and beneath the location of the former AST. This soil was thermally treated at the facility and reused as fill. Heating oil/diesel was found to be leaking from the drainage pipes on the

subject property, thought to have migrated from the Willwear facility. Groundwater monitoring wells were proposed to be installed at the subject property to delineate the plume; however, access to the subject property was denied. In lieu of installing the monitoring wells on the subject property, Alpha installed three monitoring wells on the Willwear property. According to a Request for Closure dated August 11, 1999 and completed by Alpha, sampling of the monitoring wells was conducted in August 1998, March 1999, and July 1999. Alpha requested a closure of the incident due to analytical results showing concentrations of constituents below the North Carolina Groundwater Quality Standards. The incident has not been closed due to the lack of off-site data. Based on the open status of this release and the documented contamination that has reportedly migrated onto the subject property, ECS considers this to represent a REC for the subject property.

ASTM E1527-21 defines a "*data gap*" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." A *"significant data gap"* is "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition." Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E1527-21 of the Former Drexel Mill Property located at 70 Blue Ridge Street, in Marion, McDowell County, North Carolina, the subject property. Any exceptions to, or deletions from, this practice are described in Section 2.6 of this report. This assessment has revealed the following recognized environmental conditions in connection with the subject property:

- The subject property operated as a furniture manufacturing facility from at least 1902 through 2004 and is listed as Active Eligible with the NCDEQ Brownfields Program. Based on the length of use as a manufacturing facility and as well as documented contamination at the property as a result of previous assessments, ECS considers this to represent a REC.
- ECS considers the USTs and OWS to be RECs due to the potential for releases to impact the soil and groundwater beneath the subject property.
- ECS considers the O'Reilly Auto Parts/RK's Automotive which appears to be an automotive repair and former fueling station located to the north to represent a REC due to the potential for a release from this property to impact the subject property.
- The upgradient, northern adjoining property (Willwear Hosiery) was occupied by a mill, varnish and oil house, and knitting mill from 1918 through 1956 and has a documented release. The incident has not been closed due to the lack of off-site data. Based on the open status of this release and the documented contamination that has reportedly migrated onto the subject property, ECS considers this to represent a REC for the subject property.
- The upgradient, northwestern adjoining property was occupied by a hosiery mill from 1922 through 1939. Based on the distance and topographic relation to the subject property, ECS considers this facility to represent a REC for the subject property.

The following CREC was identified during this assessment:

- The subject property is identified on the LUST database as Drexel Heritage #2 at 361 Blue Ridge Street and has a UST Number of AS-1008. The NFA was provided based on a report which shows soil contamination is below the industrial/commercial MSCCs and groundwater

contamination is below the GCLs; however, the NFA notes that groundwater is not suitable for use as a water supply. Based on the NFA status of this release, ECS considers this listing to represent a CREC for the subject property.

The following HREC was identified during this assessment:

- The subject property is identified on the LAST database as Drexel Heritage #2-#5 Fuel Oil at Drexel Heritage #2 and has a UST Number of AS-88134. Based on the closed out status of this release as well as the historic sampling conducted in the vicinity of the former AST, ECS considers this listing to represent a HREC for the subject property.

The following BERs were identified during this assessment:

- ECS considers the potential presence of ACM in comingled debris to represent a BER.
- Per- and Polyfluoroalkyl Substances (PFAS) are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water and can be in a variety of products. While PFAS are not currently listed as CERCLA hazardous substances, there is evidence that exposure to PFAS can lead to adverse health outcomes. According to the EPA, PFAS have been manufactured and used in a variety of industries since the 1940s and can be found in materials such as food packaging, fire-fighting foams, water-repellent coatings, non-stick products, and various paints and cleaning products.

  On Thursday, August 25, 2022, the EPA signed a proposed rule to designate Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) as CERCLA Hazardous Substances. According to the proposed rule "the five broad categories of entities potentially affected by this action include: (1) PFOA and/or PFOS manufacturers (including importers and importers of articles); (2) PFOA and/or PFOS processors; (3) manufacturers of products containing PFOA and/or PFOS; (4) downstream product manufacturers and users of PFOA and/or PFOS products; and (5) waste management and wastewater treatment facilities". The EPA has identified various mills and manufacturing processes as industries that may be affected by the proposed EPA rule.

  While not currently considered a REC due to PFAS contaminants not being regulated as hazardous substances, ECS considers the potential for PFAS contamination resulting from the historic operations on-site to impact the subject property to represent a BER.

Table of Critical Dates

Item	Date
Report Issuance Date & Declaration by Environmental Professional	November 16, 2022
Date of Interview with Past and Present Owners and Occupants	October 27, 2022
Date of Recorded Environmental Cleanup Lien Search	Not obtained
Date of Government Record Review Report	October 12, 2022
Date of Visual Inspection of Subject and Adjoining Properties	October 21, 2022
Earliest Date of Interviews, Lien Search, Record Reviews, and Inspections	October 12, 2022
Report Viability Date	April 10, 2022

According to ASTM E1527-21: "...an environmental site assessment meeting or exceeding this practice is presumed to be viable when it is conducted within 180 days prior to the date of acquisition of the subject property (or, for transactions not involving an acquisition such as a lease or refinance, the date of the intended transaction). The dates of the components presented in 4.6.2(i), (iii), (iv), and (v) for interviews, review of government records, visual inspections, and declaration by environmental professional, shall be identified in the report. Completion of searches for recorded environmental cleanup liens (4.6.2(ii)) is a user responsibility; however, if the user has engaged the environmental professional to conduct these searches, then that date shall also be identified in the report." The 180-day viability period begins with the date of the earliest referenced resource noted above.

ECS was neither contracted to obtain information on environmental liens or activity and use limitations, nor have we been provided with information on environmental liens or activity and use limitations for our review. It should be noted by the User of this report that if the User does not obtain activity and use limitation information, the User that is seeking to qualify for an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser liability defense may lose these rights to qualify under CERCLA.

2.0 INTRODUCTION

2.1 Purpose and Reason for Performing Phase I ESA

The purpose of the ESA was to:

- evaluate the probability of impact to the surface water, groundwater and/or soils within the property boundaries through a review of regulatory information and a reconnaissance of the subject property and vicinity;
- evaluate historical land usage to identify previous conditions that could potentially impact the environmental condition of the subject property;
- conduct all appropriate inquiry as defined by ASTM E1527-21 and 40 CFR Part 312;
- evaluate the potential for on-site and off-site contamination; and,
- provide a professional opinion regarding the potential for environmental impact at the site and a list of Recognized Environmental Conditions (RECs).

The ESA should allow the Users the opportunity to qualify for landowner liability protection under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) provided certain stipulations are met. The landowner liability protections are: an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser. The User must meet the protection stipulations detailed in CERCLA to qualify as well as meet the User Obligations contained within the ASTM E1527-21 standard.

The reason for conducting this ESA is to perform all appropriate inquiries into the uses and prior ownership of the subject property.

2.2 Scope of Services

The environmental assessment was conducted in general accordance with ASTM E1527-21, which ECS believes to be in accordance with EPA Standards and Practices for All Appropriate Inquiry (40 CFR §312.10). The environmental assessment was conducted under the supervision or responsible charge of an individual that qualifies as an environmental professional, as defined in 40 CFR §312.10.

ECS was contracted by City of Marion to perform an ASTM E1527-21, Phase I Environmental Site Assessment (ESA) of the Former Drexel Mill Property located at 70 Blue Ridge Street in Marion, McDowell County, North Carolina. ECS was not contracted to address non-scope considerations.

2.3 Definitions

ASTM E1527-21 defines a "*recognized environmental condition (REC)*" as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." For the purposes of this definition,

"likely" is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

ASTM E1527-21 defines a "*historical recognized environmental condition (HREC)*" as "a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition."

ASTM E1527-21 defines a "*controlled recognized environmental condition (CREC)*" as "recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations)."

ASTM E1527-21 defines a "*business environmental risk (BER)*" as "a risk that can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice." This assessment does not include ASTM Non-Scope items or identify business environmental risks unless specifically requested by the Client, and included in Section 8.0 of this report.

ASTM E1527-21 defines a "*de minimis condition" as "a* condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a *de minimis* condition is not a recognized environmental condition nor a controlled recognized environmental condition."

2.4 Limitations

The ESA involved a reconnaissance of the subject property and contiguous properties and a review of regulatory and historical information in general accordance with the ASTM standard and EPA regulation referenced herein. No non-scope considerations or additional issues such as asbestos, radon, wetlands or mold were investigated, unless otherwise described in Section 8.0 of this report.

Note: Although potential vapor migration was considered as part of this ASTM E1527-21 Phase I ESA, the Phase I ESA was not intended to fully meet the requirements of the Vapor Encroachment Screen per the ASTM E2600 guide, which is beyond the scope of an ASTM E1527-21 Phase I ESA.

The conclusions and/or recommendations presented within this report are based upon a level of investigation consistent with the standard of care and skill exercised by members of the same profession currently practicing in the same locality under similar conditions. The intent of this assessment is to identify the potential for recognized environmental conditions in connection with the subject property; however, no environmental site assessment can completely eliminate

uncertainty regarding the potential for recognized environmental conditions in connection with the subject property. The findings of this ESA are not intended to serve as an audit for health and safety compliance issues pertaining to improvements or activities at the subject property. ECS is not liable for the discovery or elimination of hazards that may potentially cause damage, accidents or injury.

Observations, conclusions and/or recommendations pertaining to environmental conditions at the subject property are necessarily limited to conditions observed, and or materials reviewed at the time this study was undertaken. It was not the purpose of this study to determine the actual presence, degree or extent of contamination, if any, at this subject property. This could require additional exploratory work, including sampling and laboratory analysis. No warranty, expressed or implied, is made with regard to the conclusions and/or recommendations presented within this report.

This report is provided for the exclusive use of City of Marion. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties. The use of this report by any undesignated third party or parties will be at such party's sole risk and ECS disclaims liability for any such third party use or reliance. The use of this report is subject to the same terms, conditions and scope of work reflected in this report and the associated proposal.

2.5 Data Gaps

ASTM E1527-21 defines a "*data gap*" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." A *"significant data gap"* is "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition."

Data failures (historical data gaps) were identified during the historical research of this subject property. Use of the subject property was generally documented back to 1894. Historical information was missing for various periods. However, due to other historical research and documents gathered, the historical data gaps are not expected to impact our ability to render a professional opinion regarding the subject property.

Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

2.6 Limiting Conditions/Deviations

ASTM E1527-21 requires that the Environmental Professional identify limiting conditions, deletions, and deviations from the ASTM E1527-21 standard, if any, including client-imposed constraints. The following limiting conditions and/or deviations were encountered during the performance of this Phase I ESA:

Dense vegetation covered portions of the subject property and may have obscured environmentally significant features and direct observation of the ground surface.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Subject Property Location and Legal Description

Site Name	Former Drexel Mill Property
Property Address	70 Blue Ridge Street
Property City, State	Marion, North Carolina
Property County	McDowell County
Number of Parcels	One
Property ID Number(s)	1701-10-46-6003
Property Size	15.29 Acres
Property Owner of Record	City of Marion and McDowell County
Property Legal Description	ECS was not provided a legal property description

3.2 Physical Setting and Hydrogeology

USGS Topographic Map	
Quad Designation	Marion West, North Carolina
Date	2019
Subject Property Settings	
Geologic Province	Blue Ridge
Average Subject Property Elevation (in feet or meters)	1,396 feet above mean sea level (MSL)
General Sloping Direction	South/southeast
Bodies of Water	Unnamed tributary depicted in central portion of property
Presumed Direction of Groundwater Flow	South/southeast
Up-gradient Property Direction	North/northwest/west

Nearby Properties' Setting	
General Sloping Direction	South/southeast
Bodies of Water	Unnamed tributaries and Youngs Fork
General Directions of Surface Flow	South/southeast
Presumed Direction of Groundwater Flow	South/southeast

Regional influences may have an impact on groundwater flow. The actual groundwater flow direction cannot be determined without site-specific information obtained through the gauging of groundwater monitoring wells.

Regional groundwater flow in the immediate vicinity of the site is generally to the south/southeast/ west. Properties to the north/northwest are presumed to be “hydrogeologically upgradient” and properties to the south/southeast are presumed to be “hydrogeologically downgradient” in relation to the subject property. The topographic and hydrogeologic term “crossgradient” is used for properties that are neither upgradient nor downgradient, but generally on a line from the subject property perpendicular to the presumed direction of groundwater flow. Other properties not in the same drainage watershed are presumed to be “disconnected” from the groundwater in the immediate vicinity of the subject property.

3.3 Current Use and Description of the Site

The subject property consists of an approximately 15.29-acre parcel of land that is currently utilized as vacant land. The subject property is improved with several concrete slabs from prior development with an industrial facility. The subject property is located in an area that can generally be described as mixed commercial and residential area.

4.0 USER PROVIDED INFORMATION

The ASTM standard includes disclosure and obligations of the User to help the Environmental Professional identify the potential for Recognized Environmental Conditions associated with the subject property. The ASTM E1527-21 User Questionnaire was submitted to and completed by Heather Cotton, representing City of Marion (User of the report). Section 4.0 is based on the completed User Questionnaire. A copy of the completed User Questionnaire is included in Appendix II.

4.1 Title Information

ECS was not provided with title information by the User. If this information is provided following the issuance of this report and information contained therein materially changes the outcome of this report, ECS will issue an addendum to this report.

4.2 Environmental Liens or Activity and Use Limitations

ECS was neither contracted to obtain information on environmental liens or activity and use limitations, nor have we been provided with information on environmental liens or activity and use limitations for our review. It should be noted by the User of this report that if the User does not obtain activity and use limitation information, the User that is seeking to qualify for an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser liability defense may lose these rights to qualify under CERCLA. If the activity use information is provided following issuance of this report and information contained therein materially changes the outcome of this report, ECS will issue an addendum to this report. The User stated they were not aware of any AULs associated with the subject property.

4.3 Specialized Knowledge

The User indicated that they did not possess specialized knowledge of the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

The User indicated that the past use of the property is a furniture manufacturing facility that operated from 1902 to 2004. The User also indicated that chemicals located on the property were identified in ECS Reports Project No 49:3978. A partial cleanup of the property was completed between 2017 and 2019 that included the removal of approximately 3,000-tons of asbestos containing material and lead-based paint comingled demolition material and the disposal of drums of unknown chemicals.

4.5 Valuation Reduction for Environmental Issues

According to the User, the purchase price being paid for the subject property reasonably reflects its fair market value.

4.6 Owner, Property Manager, and Occupant Information

The User indicated that the subject property is owned by McDowell County Government and the City of Marion.

4.7 Degree of Obviousness

The User indicated that four USTs, one OWS, comingled asbestos containing material, and lead-based paint containing demolition material was located on the subject property.

5.0 RECORDS REVIEW

A regulatory records search of ASTM standard and supplemental databases was conducted for the subject property and is included in Appendix III. The regulatory search report in the appendix includes additional details about the regulatory databases that were reviewed. The regulatory records search involves searching a series of databases for facilities that are located within a specified distance from the subject property. The ASTM standard specifies an approximate minimum search distance from the subject property for each database. Pursuant to ASTM, the approximate minimum search distance may be reduced for each standard environmental record except for Federal NPL site list, and Federal RCRA TSD list. According to ASTM, government information obtained from nongovernmental sources may be considered current if the source updates the information at least every 90 days or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public. The following table indicates the standard environmental record sources and the approximate minimum search distances for each record.

Standard Environmental Record Sources	Approximate Minimum Search Distance Per ASTM (miles)	Subject Property	Off-Site Properties
Federal NPL	1.0	No	0
Federal Delisted NPL	0.5	No	0
Federal CERCLIS	0.5	No	1
Federal CERCLIS NFRAP	0.5	No	3
Federal RCRA CORRACTS	1.0	No	0
Federal RCRA non-CORRACTS TSD	0.5	No	0
Federal RCRA Generators	Subject Site and Adjoining Properties	Yes	4
Federal IC/EC	Subject Site Only	No	N/A
Federal ERNS	Subject Site Only	No	N/A
State and Tribal Hazardous Waste Sites (NPL Equivalent)	1.0	No	0
State and Tribal Hazardous Waste Sites (CERCLIS Equivalent)	0.5	No	1
State and Tribal Landfill and/or solid waste disposal sites	0.5	No	0

Standard Environmental Record Sources	Approximate Minimum Search Distance Per ASTM (miles)	Subject Property	Off-Site Properties
State and Tribal Leaking Tanks	0.5	Yes	17
State and Tribal Registered UST and AST	Subject Site and Adjoining Properties	Yes	12
State and Tribal IC/EC	Subject Site Only	No	N/A
State and Tribal Voluntary Cleanup (VCP)	0.5	No	0
State and Tribal Brownfield Sites	0.5	Yes	0

Based on our knowledge of the subject property and the surrounding area, ECS attempts to verify and interpret this data. While this attempt at verification is made with due diligence, ECS cannot guarantee the accuracy of the record(s) search beyond that of information provided by the regulatory report(s). ECS makes no warranty regarding the accuracy of the database report information included within the regulatory report(s).

The regulatory database search was performed by EDR, and their report is dated October 12, 2022. ECS did not reduce the minimum ASTM search distances stipulated in the standard. The regulatory databases reviewed by ECS included supplemental databases researched by EDR.

5.1 Federal ASTM Databases

5.1.1 Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)

The CERCLIS database contains information on potential hazardous waste sites that have been reported to the United States Environmental Protection Agency (USEPA) for consideration under the Comprehensive Environmental Response, Compensation and Recovery Act (CERCLA), informally known as Superfund. The CERCLIS database contained sites that are either proposed to or on the National Priority List (NPL) and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS database has been retired by the EPA, and has not been updated since 2013. Sites formerly listed in the CERCLIS database are now tracked under the Superfund Enterprise Management System (SEMS) database.

The database report lists one property within the designated search radius for this database. This facility is discussed below:

> **West Court Street Residential Hazardous Materials, 334 West Court Street -** This facility is located approximately 615 feet north and topographically upgradient to the subject property. This facility is identified on the SEMS database and has an EPA ID of NCN000420092. The EDR report indicates that this facility is a removal only site and additional site assessment work is

needed. Based on the distance to the subject property and recorded groundwater flow to the southeast in the vicinity of this facility, away from the subject property, ECS does not consider this facility to represent a REC for the subject property.

5.1.2 Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) No Further Remedial Action Planned (NFRAP)

CERCLIS sites designated as NFRAP have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration. This database has been retired by the EPA and has not been updated since 2013, and sites formerly tracked on the CERCLIS NFRAP database are now tracked on the Superfund Enterprise Management System Archive (SEMS Archive) database.

The database report lists three properties within the designated search radius for this database. Two of these are discussed below:

McDowell County Millwork, 426 West Henderson Street - This facility is located adjoining to the south and topographically downgradient to the subject property. This facility is identified on the SEMS-Archive Database and has an EPA ID of NCN000410248. Based on the topographic relation to the subject property and recorded groundwater flow away from the subject property, ECS does not consider this facility to represent a REC for the subject property.

Unlimited Finishing, 512 Carson Street - This facility is located approximately 600 feet south and topographically cross to downgradient to the subject property. This facility is identified on the SEMS-Archive Database and has an EPA ID of NCN000410268. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

ECS has reviewed the remaining one listing reported by EDR on the CERCLIS NFRAP database. This off-site listing is reported more than 1,700 feet away from the subject property. Based on the distance from the subject property, ECS does not believe issues at this off-site listing would result in a REC for the subject property. Additional information pertaining to this listing can be viewed in the regulatory report included in Appendix III.

5.1.3 Federal RCRIS - Generators

RCRIS identifies facilities that generate hazardous wastes as defined by the RCRA. Very small quantity generators (VSQG) (previously identified as conditionally exempt small quantity generators or CESQGs) generate less than 100 kilograms of hazardous waste, or less than 1 kilogram of acutely hazardous waste, per month. Small quantity generators (SQGs) generate between 100 and 1,000 kilograms of hazardous waste per month. Large quantity generators (LQGs) generate more than 1,000 kilograms of hazardous waste or more than 1 kilogram of acutely hazardous waste per month.

The **subject property** is identified on the NonGen/NLR database as **Drexel Heritage Plant 2** at **70 Blue Ridge Street** and has an EPA ID of NCD097368294. This facility is identified as a generator of ignitable waste and spent nonhalogenated solvents. This facility was historically identified as a LQG in 1992 through 2004. By 2005, the facility is identified as a non-generator. This facility has received violations associated with general violations in 1989 and returned to compliance in 1992, general violations in 1984 that returned to compliance in 1984, records and reporting violations in 1993 that achieved compliance in 1993, and pre-transport violations in 1997 that achieved compliance in 1998. For more information on this facility, see its listing in Section 5.2.7.

Four off-site properties within 0.25 miles of the subject property were reported as being on the Federal RCRIS Generators database. Three of these listings are discussed below:

McDowell County Millwork LLC, 4 Old West Henderson Street - This facility is located adjoining to the south and topographically downgradient to the subject property. This facility is identified on the NonGen/NLR database and has an EPA ID of NCD051325413. This facility is identified as a generator of ignitable waste. Based on the topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Rock Tenn Company, 33 Burgin Street - This facility is located approximately 480 feet northeast and topographically crossgradient to the subject property. This facility is identified on the VSQG database and has an EPA ID of NCD986232676. This facility is identified as a generator of ignitable waste, silver, benzene, tetrachloroethylene, and spent halogenated solvents. According to a Rock-Tenn Company: Marion Folding Groundwater Monitoring report completed by Conestoga-Rovers & Associates (CRA) on August 31, 2006, four monitoring wells were gauged and sampled. Groundwater flow direction was determined to be toward the southeast, away from the subject property. Based on the reported groundwater flow direction at this facility, ECS does not consider this facility to represent a REC for the subject property.

334 W Court Street - Emergency Notification, 334 W Court Street - This facility is located approximately 610 feet north and topographically upgradient to the subject property. This facility is identified on the NonGen/NLR database and has an EPA ID of NCP090820030. Based on the distance to the subject property and recorded groundwater flow to the southeast in the vicinity of this facility, away from the subject property, ECS does not consider this facility to represent a REC for the subject property.

ECS has reviewed the one remaining listing on the RCRA Generators database. This other off-site listing is reported more than 900 feet away from the subject property. Based on the distance from the subject property, ECS does not believe issues at this listing result in RECs for the subject property. Additional information pertaining to this listing can be viewed in the regulatory report included in Appendix III.

5.2 State ASTM Databases

5.2.1 State Hazardous Waste Sites (SHWS) Inventory

State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not be already listed on the federal CERCLIS database.

The database report lists one property within the designated search radius for this database. This is discussed below:

Rock-Tenn Marion Folding, 33 Burgin Street - This facility is located approximately 480 feet northeast and topographically crossgradient to the subject property. This facility is identified on the SHWS database and has an EPA ID of NCD986232676. According to a Rock-Tenn Company: Marion Folding Groundwater Monitoring report completed by Conestoga-Rovers & Associates (CRA) on August 31, 2006, four monitoring wells were gauged and sampled. Groundwater flow direction was determined to be toward the southeast, away from the subject property. Based on the reported groundwater flow direction at this facility, ECS does not consider this facility to represent a REC for the subject property.

5.2.2 State Leaking Aboveground Storage Tank (LAST)

The LAST list is a record of reported leaking aboveground storage tank incidents.

The **subject property** is identified on the LAST database as **Drexel Heritage #2-#5 Fuel Oil** at **Drexel Heritage #2** and has a UST Number of AS-88134. This facility has a recorded petroleum release in April 1994 that received a No Further Action (NFA) letter in May 1995. ECS requested files associated with this release from the North Carolina Department of Environmental Quality (NCDEQ). At the time of the issuance of this report, ECS has not received files associated with this listing. According to a site plan previously provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. ECS previously conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). Laboratory analysis of soil samples collected in the vicinity of the former AST indicated arsenic, chromium, and selenium; however, background soil samples collected from the northeastern portion of the subject property detected arsenic, chromium, and selenium at similar concentrations. A groundwater sample, MW-6, was also collected in the vicinity of the former AST. Laboratory analysis of this sample indicated concentrations of targeted constituents (chloroform, barium, and chromium) above laboratory detection limits, but below NC 2L Groundwater Quality Standards. Based on the closed out status of this release as well as the historic sampling conducted in the vicinity of the former AST, ECS considers this listing to represent a HREC for the subject property.

The database report lists two properties within the designated search radius for this database. These are discussed below:

Willwear Hoisery Mfg. Co Inc, 360 Blue Ridge Street - This facility is located adjoining to the north and topographically upgradient to the subject property. This facility is identified on the LAST and IMD database and has a UST Number of AS-11940. This facility is identified as having a recorded petroleum release in January 1994 that has not received an NFA letter. ECS

reviewed files from the NCDEQ associated with this facility. According to the files reviewed, a release of approximately 2,000-gallons of heating oil occurred on January 21, 1994. A UST Closure Report was conducted by Alpha Environmental Sciences, Inc on April 10, 1995. One 8,000-gallon UST and one 550-gallon AST were removed and a new AST was installed. Approximately 294 tons of contaminated soil was excavated around the fill pipes, product lines, and beneath the location of the former AST. This soil was thermally treated at the facility and reused as fill. Heating oil/diesel was found to be leaking from the drainage pipes on the subject property, thought to have migrated from the Willwear facility. Groundwater monitoring wells were proposed to be installed at the subject property to delineate the plume; however, access to the subject property was denied. In lieu of installing the monitoring wells on the subject property, Alpha installed three monitoring wells on the Willwear property. According to a Request for Closure dated August 11, 1999 and completed by Alpha, sampling of the monitoring wells was conducted in August 1998, March 1999, and July 1999. Alpha requested a closure of the incident due to analytical results showing concentrations of constituents below the North Carolina Groundwater Quality Standards. The incident has not been closed due to the lack of off-site data. Based on the open status of this release and the documented contamination that has migrated onto the subject property, ECS considers this to represent a REC for the subject property.

Broyhill-Marion, 4 Old West Henderson Street - This facility is located adjoining to the south and topographically downgradient to the subject property. This facility is identified on the LAST and Institutional Control databases and has a UST Number of AS-87946. This facility has a recorded petroleum release in October 2006 that received a NFA letter in May 2017. ECS reviewed files associated with this facility available from NC DEQ. According to the files reviewed, groundwater at this facility flows to the east, towards a tributary of Young's Fork, away from the subject property. Based on the groundwater flow away from the subject property, ECS does not consider this facility to represent a REC for the subject property.

5.2.3 Leaking Underground Storage Tank (LUST) List

The LUST list is a record of reported leaking underground storage tank incidents. The LUST list may also identify properties that have had soil and/or groundwater contamination associated with documented releases from aboveground storage tanks, surface spills, and other sources.

The **subject property** is identified on the LUST database as **Drexel Heritage #2** at **361 Blue Ridge Street** and has a UST Number of AS-1008. This facility has a recorded petroleum release in October 1992 during the removal of an approximately 550-gallon UST for gasoline that received a NFA letter in January 1998. According to files reviewed from the NCDEQ, six quarterly monitoring reports were completed by ERM-Southeast, Inc from January 1995 through July 1996. The reports indicated at least eleven monitoring wells were installed and the groundwater flow direction was determined to flow towards the south or southeast. In January 1995, approximately 0.06 feet of free product was observed in monitoring well MW-8, located south of the chemical storage building. Total benzene, toluene, ethylbenzene, and xylenes (BTEX) was detected in the monitoring wells sampled. In May and June 1995, a soil vapor extraction/air sparging (SVE/AS) groundwater remediation system was installed at the subject property. In July 1995, free product seepage was observed at the base of the retaining

wall located adjacent to the south wall of the chemical storage building. This seepage and free product previously noted appears to be related to the January 1994 fuel oil release from the Willwear Manufacturing property. By October 1995, the SVE/AS system was operating and a decreasing trend of targeted constituents was observed. Additional monitoring was conducted and the SVE/AS system was non-operational for a period of time due to a water main rupture. On April 21, 1998, the NCDEQ provided a NFA letter for this release. The NFA was provided based on a report which shows soil contamination is below the industrial/ commercial MSCCs and groundwater contamination is below the GCLs; however, the NFA notes that groundwater is not suitable for use as a water supply. Based on the NFA status of this release with a groundwater restriction, ECS considers this listing to represent a CREC for the subject property.

The database report lists fifteen properties within the designated search radius for this database. Seven of these are discussed below:

Marion Food Mart, 275 West Henderson Street - This facility is located approximately 240 feet northeast and topographically crossgradient to the subject property. This facility is identified on the LUST database and has a UST Number of AS-1442. This facility has a recorded petroleum release in April 1996 that has not received a NFA. Based on the distance and topographic relation to the subject property, ECS does not consider this listing to represent a REC for the subject property.

McDowell County Millworks, 4 Old West Henderson Street - This facility is located adjoining to the south and topographically downgradient to the subject property. This facility is identified on the LUST database and has a UST Number of AS-3963. This facility is identified as having a recorded petroleum release in December 2012 that received a NFA letter in 2015. Based on the topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Etta Packaging Inc, 21 Burgin Street - This facility is located approximately 630 feet north and topographically crossgradient to the subject property. This facility is identified on the LUST and UST database and has a UST Number of AS-1714. This facility has a recorded petroleum release in 1998 that received a NFA letter in 1999. This facility is identified as having one 1,000-gallon UST for gasoline that was installed in 1964 and removed in 1986. Groundwater in the vicinity of this facility is reported to flow to the southeast, away from the subject property. Based on the distance and topographic relation to the subject property and reported groundwater flow direction, ECS does not consider this facility to represent a REC for the subject property.

EMW Properties, 105 West Henderson Street - This facility is located approximately 770 feet northeast and topographically crossgradient to the subject property. This facility is identified on the LUST database and has a UST Number of AS-4423. This facility has a recorded petroleum release in July 2016 that received a NFA letter in September 2016. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Kay Lee Express, 435 West Henderson Street - This facility is located approximately 750 feet southeast and topographically downgradient to the subject property. This facility is identified on the LUST, UST, and IMD database and has a UST Number of AS-28210. This facility is identified as having a recorded petroleum release in January 2021 that has not received a NFA letter. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Kwik As A Wink, 505 West Henderson Street - This facility is located approximately 890 feet southeast and topographically downgradient to the subject property. This facility is identified on the LUST database and has a UST Number of AS-4061. This facility is identified as having a recorded petroleum release in October 2013 that received a NFA letter in April 2014. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Marion Branch Office, 601 West Henderson Street - This facility is located approximately 950 feet south and topographically downgradient to the subject property. This facility is identified on the LUST and UST databases and has a UST Number of AS-1035. This facility has a recorded petroleum release in October 1993 that received a NFA letter in November 1993. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

ECS has reviewed the remaining eight listings reported by EDR on the LUST database. These other off-site listings are reported more than 1,000 feet from the subject property. Based on the distance from the subject property and/or relative topographic position, ECS does not believe releases at these off-site listings would result in a REC for the subject property. Additional information pertaining to these listings can be viewed in the regulatory report included in Appendix III.

5.2.4 Registered Underground Storage Tank (UST) List

The Registered UST List inventories underground storage tanks registered with the state. This list does not identify USTs that have not been registered or are exempt, such as home heating oil tanks and other unregulated tanks.

The **subject property** is identified on the UST database as **Westwood NC II LLC** at **70 Blue Ridge Street** and has a Facility ID of 00-0-0000025221. This facility is identified as having three 25,000-gallon USTs for fuel oil that were installed in 1975 and have not been removed and one 5,000-gallon UST for non-petroleum products that was installed in 1960 and has not been removed. This facility is also identified as having one 8,000-gallon UST for was oil that was installed in 1975 and removed in 1992, one 550-gallon UST for gasoline that was installed in 1983 and removed in 1993, one 1,000-gallon UST for diesel fuel that was installed in 1981 and removed in 1992, one 6,048-gallon UST for lacquer thinner that was installed in 1961 and removed in 2002, and one 8,000-gallon UST for naptha that was installed in 1961 and removed in 1992. A UST Closure Report was completed by Shield Environmental Associates and was dated April 23, 2003. The diesel fuel, lacquer thinner, and naptha USTs were located between a building and a lumber pile south of the main facility and the gasoline UST was located north of the main facility, near the front gate. Upon removal of the diesel UST, no release was identified. Two soil samples were collected from the base of the excavation and were analyzed for Total

Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO). Laboratory analysis detected concentrations of petroleum below North Carolina Action Levels.

Upon removal of the lacquer thinner, naptha and gasoline USTs odors were identified in the soil indicative of a release and impacted soil was subsequently removed. Ten cubic yards of impacted soil were removed from the based of each of the lacquer thinner and naptha USTs excavations and 85 cubic yards of soil was removed from the base of the gasoline UST excavation. Following soil removal associated with the lacquer thinner UST, one soil sample was collected from the base of the excavation and analyzed for RCRA metals, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). In addition, VOCs and SVOCs were also analyzed according to the Toxicity Characteristic Leachate Procedure (TCLP). RCRA metals, VOCs and SVOCs were not detected at concentrations above the laboratory reporting limits; however, the TCLP VOC and SVOC analysis detected several compounds at concentrations below the Federal TCLP regulatory limits.

Following soil removal associated with the naptha UST, three soil samples were collected from the base of the excavation and analyzed for TPH DRO and GRO. Laboratory analysis detected TPH DRO and GRO at concentrations below the North Carolina Action Levels. Following soil removal associated with the gasoline UST, two soil samples were collected from the base of the excavation and analyzed for TPH GRO. Laboratory analysis detected concentrations of TPH GRO above the North Carolina Action Level.

The excavations associated with the diesel fuel, lacquer thinner, and naptha USTs were backfilled with clean material. The Shield report does not indicate that the gasoline UST excavation was filled with clean material. Additionally, the report does not indicated if the contaminated soils removed from the lacquer thinner, naptha, and gasoline UST excavations were disposed of off-site or treated and used on-site. The report indicated that Shield was conducting additional soil and groundwater assessment in the vicinity of the gasoline UST excavation; however, the report associated with the soil and groundwater assessment was not available for review. ECS considers the sampling in the vicinity of the diesel, lacquer thinner, and naptha USTs to be sufficient and does not consider this listing to represent a REC. For more information regarding the gasoline UST, see the subject property's LUST listing in Section 5.2.3.

The database report identified twelve UST facilities within 0.25 mile of the subject property. Eight facilities are described below:

Kwik As A Wink, 315 West Henderson Street - This facility is located approximately 890 feet south and topographically downgradient. This facility is identified on the UST database and has a Facility ID of 00-0-0000025221. This facility is identified as having four 6,000-gallon USTs for gasoline that were installed in 1982 and removed in 2013. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Etta Packaging Inc, 21 Burgin Street - This facility is located approximately 630 feet north and topographically crossgradient to the subject property. This facility is identified on the LUST and UST database and has a UST Number of AS-1714. For more information on this facility, see its listing in Section 5.2.3.

McDowell Oil Company, 19 E West - This facility is located approximately 540 feet south and topographically downgradient to the subject property. This facility is identified on the UST database and has a Facility ID of 00-0-0000014784. This facility is identified as having two 3,000-gallon USTs for gasoline that were installed in 1978 and were removed in 1992. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Broyhill Furniture Ind, Mario, 436 West Henderson Street - This facility is located adjoining to the south and topographically downgradient to the subject property. This facility is identified on the UST database and has a Facility ID of 00-0-0000017088. This facility is identified as having one 550-gallon UST for diesel fuel that was installed in 1976 and removed in 1988 and one 8,000-gallon UST for fuel oil that was installed in 1970 and removed in 1988. Based on the distance and topographic relation to this facility, ECS does not consider this facility to represent a REC for the subject property.

Cross Mills Inc, 513 Carson Street - This facility is located approximately 600 feet south and topographically cross to downgradient to the subject property. This facility is identified on the UST database and has a Facility ID of 00-0-0000014406. This facility is identified as having one 10,000-gallon UST for hazardous material that was installed in 1979 and removed in 1988. This facility is also identified as having one 1,000-gallon UST for gasoline that was installed in 1976 and one 1,000-gallon UST for gasoline that was installed in 1956 and were removed in 1993. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Ideal Cleaners, 133 West Henderson Street - This facility is located approximately 580 feet northeast and topographically crossgradient to the subject property. This facility is identified on the UST database and has a Facility ID of 00-0-0000028811. This facility is identified as having one 1,000-gallon UST for fuel oil that was installed in 1964 and has not been removed. According to the reported groundwater flow direction at the subject property and the Rock-Tenn Marion Folding facility located to the northwest of the Ideal Cleaners, ECS does not consider this facility to represent a REC for the subject property.

Kay Lee Express, 435 West Henderson Street - This facility is located approximately 750 feet southeast and topographically downgradient to the subject property. This facility is identified on the LUST, UST, and IMD database and has a UST Number of AS-28210. For more information on this facility, see its listing in Section 5.2.4.

Marion Branch Office, 601 West Henderson Street - This facility is located approximately 950 feet south and topographically downgradient to the subject property. This facility is identified on the LUST and UST databases and has a UST Number of AS-1035. For more information on this facility, see its listing in Section 5.2.4.

ECS has reviewed the remaining four off-site listings reported by EDR on the UST database. These other off-site listings are reported more than 960 feet away from the subject property. Based on the distance from the subject property, ECS does not believe these off-site listings would have issues that present a REC for the subject property. Additional information pertaining to these listings can be viewed in the regulatory report included in Appendix III.

5.2.5 Aboveground Storage Tank (AST) Database

The AST Database is a list of facilities that have registered ASTs with the state regulator.

The **subject property** is identified on the AST database as **Drexel Heritage Furnishings (Plt 2 Div Champion)** at **361 Blue Ridge Street** and has a Facility ID of 56009. On a site plan provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. For more information regarding this facility, see its listing in Section 5.2.2.

5.2.6 State Institutional Control (IC) List

The State IC List identifies No Further Action facilities with institutional controls such as land use restrictions or monitoring requirements.

The database report lists two properties within the designated search radius for this database. Two of these are discussed below:

Broyhill-Marion, 4 Old West Henderson Street - This facility is located adjoining to the south and topographically downgradient to the subject property. This facility is identified on the LAST and Institutional Control databases and has a UST Number of AS-87946. For more information on this facility, see its listing in Section 5.2.2.

EMW Properties, 105 West Henderson Street - This facility is located approximately 770 feet northeast and topographically crossgradient to the subject property. This facility is identified on the LUST database and has a UST Number of AS-4423. For more information on this facility, see its listing in Section 5.2.3.

5.2.7 State Brownfield Projects Inventory

The State Brownfield Projects Inventory identifies brownfield projects. The properties in the inventory are working toward a brownfield agreement for cleanup and liability control.

The **subject property** is identified on the Brownfields database as **Drexel Heritage** at **70 Blue Ridge Street** and has a Project ID of 20072-16-056. This facility is also identified on the US Brownfields database as **Drexel Mill/Drexel Heritage Furniture.** According to files available from the NCDEQ, the City of Marion submitted a Brownfields Property Application for the subject property in September 2016. At the time of the application, the City of Marion was in the process of acquiring the subject property from the former owner, who partially demolished buildings and structures on the property, but did not have the funds in order to fully cleanup the subject property. A Phase I Environmental Site Assessment was conducted by Tetra Tech

in March 2016 as part of the Brownfields Property Application and is previously discussed. On November 3, 2016, this facility received a Letter of Eligibility into the Brownfields program and is listed as Active Eligible. ECS considers the documented impacts and potential for unidentified impacts from the former mill operations to represent a REC.

5.3 Additional Environmental Record Sources

5.3.1 Additional Non-ASTM Federal Databases

5.3.1.1 US Brownfields

The US Brownfields identifies brownfields properties inventoried with the USEPA. The properties in the listing are addressed by Cooperative Agreement Recipients and Targeted Brownfields Assessments.

The **subject property** is identified on the US Brownfields database as **Drexel Mill/Drexel Heritage Furniture** at **70 Blue Ridge Street.** For more information on this facility, see its listing in Section 5.2.7.

5.3.2 Additional Non-ASTM State Databases

5.3.2.1 Drycleaners

The Drycleaners database identifies potential and known drycleaning sites, active and abandoned.

The database report lists ten facilities within the designated search radius for this database. Five of these are discussed below:

Kwik Kleen Laundry Inc, Morgan Street - This facility is located approximately 570 feet east and topographically downgradient to the subject property. This facility is identified on the Drycleaners database on the 1976 Marion City Directory. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Ideal Cleaners, 139 West Henderson Street/133 West Henderson Street - This facility is located approximately 580 feet northeast and topographically crossgradient to the subject property. This facility is identified on the Drycleaners database on the 1941 and 1976 Marion City Directories and the NC Department of Labor Drycleaner Boiler Inspection List in 1974 and 2002. According to the reported groundwater flow direction at the subject property and the Rock-Tenn Marion Folding facility located to the northwest of the Ideal Cleaners, ECS does not consider this facility to represent a REC for the subject property.

Dixie Dry Cleaners, 11 South Logan - This facility is located approximately 890 feet northeast and topographically cross to upgradient to the subject property. This facility is identified on the Drycleaners database on the 1963 Marion City Directories. Based on the distance to the subject

property and the reported groundwater flow in the vicinity of this facility to the southeast, away from the subject property, ECS does not consider this facility to represent a REC for the subject property.

ECS has reviewed the remaining five facilities listed on the Dry Cleaners database. These other off-site listings are reported more than 1,000 feet away from the subject property. Based on the distance from the subject property and/or relative topographic position, ECS does not believe these off-site listings would have issues that result in a REC for the subject property. Additional information pertaining to these listings can be viewed in the regulatory report included in Appendix III.

5.3.2.2 Incident Management Database (IMD)

The IMD is a database of groundwater and soil contamination incidents.

The **subject property** is identified on the IMD database as **Drexel Heritage #2** at **361 Blue Ridge Street** and has a UST Number of AS-1008. For more information on this facility, see its listing in Section 5.2.3.

The **subject property** is identified on the IMD database as **Drexel Heritage #2-#5 Fuel Oil** at **Drexel Heritage Plant No 2** and has a UST Number of AS-88134. For more information on this facility, see its listing in Section 5.2.2.

The database report lists 12 properties within the designated search radius for this database. Six of these are discussed below:

Willwear Hoisery Mfg. Co Inc, 360 Blue Ridge Street - This facility is located adjoining to the north and topographically upgradient to the subject property. This facility is identified on the LAST and IMD database and has a UST Number of AS-11940. For more information on this facility, see its listing in Section 5.2.2.

Rock Tenn Company, 33 Burgin Street - This facility is located approximately 480 feet north and topographically crossgradient to the subject property. This facility is identified on the IMD database and has a Facility ID of 19263. According to information reviewed from EDR, this facility had minor soil contamination from a UST that was removed and received a NFA letter in 1999. For more information on this facility, see its listing in Section 5.2.1.

Cross Mills Inc, 513 Carson Street - This facility is located approximately 600 feet south and topographically cross to downgradient to the subject property. This facility is identified on the UST database and has a Facility ID of 00-0-0000014406. For more information on this facility, see its listing in Section 5.2.4.

Triangle Mart, 548 West Henderson Street - This facility is located approximately 870 feet south and topographically downgradient to the subject property. This facility is identified on the IMD database and has a UST-Number of AS-2371. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Duke Power Opns Ctr-Marion, 601 West Henderson Street - This facility is located approximately 950 feet south and topographically downgradient to the subject property. This facility is identified on the IMD database and has a Facility ID of 11262. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Kay Lee Express, 435 West Henderson Street - This facility is located approximately 750 feet southeast and topographically downgradient to the subject property. This facility is identified on the LUST, UST, and IMD database and has a UST Number of AS-28210. For more information on this facility, see its listing in Section 5.2.4.

ECS has reviewed the remaining six off-site listings reported by EDR on the IMD database. These other off-site listings are reported more than 1,000 feet from the subject property. Based on the distance from the subject property, ECS does not believe issues at these listings result in RECs for the subject property. Additional information pertaining to these listings can be viewed in the regulatory report included in Appendix III.

5.3.3 Other Proprietary Databases

5.3.3.1 EDR Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/ filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

The database report lists three properties within the utilized search radius for this database. Three of these are discussed below:

Hall Oil Company, 426 West Henderson Street - This facility is located approximately 720 feet southeast and topographically downgradient to the subject property. This facility is identified as a gasoline service station in 1971 and 1972. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

Texaco Foodmart, 435 West Henderson Street - This facility is located approximately 720 feet southeast and topographically downgradient to the subject property. This facility is identified as a gasoline service station in 2005 and 2006. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

West Henderson Market, 315 West Henderson Street - This facility is located approximately 890 feet southeast and topographically downgradient to the subject property. This facility is identified as a grocery store in 1982. Based on the distance and topographic relation to the subject property, ECS does not consider this facility to represent a REC for the subject property.

5.3.4 Unmapped (Orphan) Facilities and Sites

Three properties were identified on the Orphan Summary List. These facilities are considered unmappable because the facility information in the database is insufficient and/or does not report accurate facility location. Based on available address and location information, ECS did not identify the listed orphan sites within the vicinity of the subject property.

5.4 Regulatory Review Summary

A regulatory database search report was provided by EDR. The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property.

The **subject property** is identified on the LAST database as **Drexel Heritage #2-#5 Fuel Oil** at **Drexel Heritage #2** and has a UST Number of AS-88134. This facility has a recorded petroleum release in April 1994 that received a No Further Action (NFA) letter in May 1995. ECS requested files associated with this release from the North Carolina Department of Environmental Quality (NCDEQ). At the time of the issuance of this report, ECS has not received files associated with this listing. According to a site plan previously provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. ECS previously conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). Laboratory analysis of soil samples collected in the vicinity of the former AST indicated arsenic, chromium, and selenium; however, background soil samples collected from the northeastern portion of the subject property detected arsenic, chromium, and selenium at similar concentrations. A groundwater sample, MW-6, was also collected in the vicinity of the former AST. Laboratory analysis of this sample indicated concentrations of targeted constituents (chloroform, barium, and chromium) above laboratory detection limits, but below NC 2L Groundwater Quality Standards. Based on the closed out status of this release as well as the historic sampling conducted in the vicinity of the former AST, ECS considers this listing to represent an historical recognized environmental condition (HREC) for the subject property.

The **subject property** is identified on the LUST database as **Drexel Heritage #2** at **361 Blue Ridge Street** and has a UST Number of AS-1008. This facility has a recorded petroleum release in October 1992 during the removal of an approximately 550-gallon UST for gasoline that received a NFA letter in January 1998. According to files reviewed from the NCDEQ, six quarterly monitoring reports were completed by ERM-Southeast, Inc from January 1995 through July 1996. The reports indicated at least eleven monitoring wells were installed and the groundwater flow direction was determined to flow towards the south or southeast. In January 1995, approximately 0.06 feet of free product was observed in monitoring well MW-8, located south of the chemical storage building. Total benzene, toluene, ethylbenzene, and

xylenes (BTEX) was detected in the monitoring wells sampled. In May and June 1995, a soil vapor extraction/air sparging (SVE/AS) groundwater remediation system was installed at the subject property. In July 1995, free product seepage was observed at the base of the retaining wall located adjacent to the south wall of the chemical storage building. This seepage and free product previously noted appears to be related to the January 1994 fuel oil release from the Willwear Manufacturing property. By October 1995, the SVE/AS system was operating and a decreasing trend of targeted constituents was observed. Additional monitoring was conducted and the SVE/AS system was non-operational for a period of time due to a water main rupture. On April 21, 1998, the NCDEQ provided a NFA letter for this release. The NFA was provided based on a report which shows soil contamination is below the industrial/ commercial MSCCs and groundwater contamination is below the GCLs; however, the NFA notes that groundwater is not suitable for use as a water supply. Based on the NFA status of this release with a groundwater restriction, ECS considers this listing to represent a controlled recognized environmental condition (CREC) for the subject property.

The **subject property** is identified on the UST database as **Westwood NC II LLC** at **70 Blue Ridge Street** and has a Facility ID of 00-0-0000025221. This facility is identified as having three 25,000-gallon USTs for fuel oil that were installed in 1975 and have not been removed and one 5,000-gallon UST for non-petroleum products that was installed in 1960 and has not been removed. This facility is also identified as having one 8,000-gallon UST for was oil that was installed in 1975 and removed in 1992, one 550-gallon UST for gasoline that was installed in 1983 and removed in 1993, one 1,000-gallon UST for diesel fuel that was installed in 1981 and removed in 1992, one 6,048-gallon UST for lacquer thinner that was installed in 1961 and removed in 2002, and one 8,000-gallon UST for naptha that was installed in 1961 and removed in 1992. A UST Closure Report was completed by Shield Environmental Associates and was dated April 23, 2003. The diesel fuel, lacquer thinner, and naptha USTs were located between a building and a lumber pile south of the main facility and the gasoline UST was located north of the main facility, near the front gate. Upon removal of the diesel UST, no release was identified. Two soil samples were collected from the base of the excavation and were analyzed for Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO). Laboratory analysis detected concentrations of petroleum below North Carolina Action Levels.

Upon removal of the lacquer thinner, naptha and gasoline USTs odors were identified in the soil indicative of a release and impacted soil was subsequently removed. Ten cubic yards of impacted soil were removed from the based of each of the lacquer thinner and naptha USTs excavations and 85 cubic yards of soil was removed from the base of the gasoline UST excavation. Following soil removal associated with the lacquer thinner UST, one soil sample was collected from the base of the excavation and analyzed for RCRA metals, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). In addition, VOCs and SVOCs were also analyzed according to the Toxicity Characteristic Leachate Procedure (TCLP). RCRA metals, VOCs and SVOCs were not detected at concentrations above the laboratory reporting limits; however, the TCLP VOC and SVOC analysis detected several compounds at concentrations below the Federal TCLP regulatory limits.

Following soil removal associated with the naptha UST, three soil samples were collected from the base of the excavation and analyzed for TPH DRO and GRO. Laboratory analysis detected TPH DRO and GRO at concentrations below the North Carolina Action Levels. Following soil removal associated with the gasoline UST, two soil samples were collected from the base of the excavation and analyzed for TPH GRO. Laboratory analysis detected concentrations of TPH GRO above the North Carolina Action Level.

The excavations associated with the diesel fuel, lacquer thinner, and naptha USTs were backfilled with clean material. The Shield report does not indicate that the gasoline UST excavation was filled with clean material. Additionally, the report does not indicated if the contaminated soils removed from the lacquer thinner, naptha, and gasoline UST excavations were disposed of off-site or treated and used on-site. The report indicated that Shield was conducting additional soil and groundwater assessment in the vicinity of the gasoline UST excavation; however, the report associated with the soil and groundwater assessment was not available for review. ECS considers the sampling in the vicinity of the diesel, lacquer thinner, and naptha USTs to be sufficient and does not consider this listing to represent a REC. For more information regarding the gasoline UST, see the subject property's LUST listing.

The **subject property** is identified on the Brownfields database as **Drexel Heritage** at **70 Blue Ridge Street** and has a Project ID of 20072-16-056. This facility is also identified on the US Brownfields database as **Drexel Mill/Drexel Heritage Furniture.** According to files available from the NCDEQ, the City of Marion submitted a Brownfields Property Application for the subject property in September 2016. At the time of the application, the City of Marion was in the process of acquiring the subject property from the former owner, who partially demolished buildings and structures on the property, but did not have the funds in order to fully cleanup the subject property. A Phase I Environmental Site Assessment was conducted by Tetra Tech in March 2016 as part of the Brownfields Property Application and is previously discussed. On November 3, 2016, this facility received a Letter of Eligibility into the Brownfields program and is listed as Active Eligible. ECS considers the documented impacts and potential for unidentified impacts from the former mill operations to represent a REC.

The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, issues associated with the listings in the database report are not believed to represent a REC for the subject property with the exception of the following:

Willwear Hoisery Mfg. Co Inc, 360 Blue Ridge Street - This facility is located adjoining to the north and topographically upgradient to the subject property. This facility is identified on the LAST and IMD database and has a UST Number of AS-11940. This facility is identified as having a recorded petroleum release in January 1994 that has not received an NFA letter. ECS reviewed files from the NCDEQ associated with this facility. According to the files reviewed, a release of approximately 2,000-gallons of heating oil occurred on January 21, 1994. A UST Closure Report was conducted by Alpha Environmental Sciences, Inc on April 10, 1995. One 8,000-gallon UST and one 550-gallon AST were removed and a new AST was installed. Approximately 294 tons of contaminated soil was excavated around the fill pipes, product lines, and beneath the location of the former AST. This soil was thermally treated at the facility and reused as fill. Heating oil/diesel was found to be leaking from the drainage pipes on the

subject property, thought to have migrated from the Willwear facility. Groundwater monitoring wells were proposed to be installed at the subject property to delineate the plume; however, access to the subject property was denied. In lieu of installing the monitoring wells on the subject property, Alpha installed three monitoring wells on the Willwear property. According to a Request for Closure dated August 11, 1999 and completed by Alpha, sampling of the monitoring wells was conducted in August 1998, March 1999, and July 1999. Alpha requested a closure of the incident due to analytical results showing concentrations of constituents below the North Carolina Groundwater Quality Standards. The incident has not been closed due to the lack of off-site data. Based on the open status of this release and the documented contamination that has reportedly migrated onto the subject property, ECS considers this to represent a REC for the subject property.

6.0 HISTORICAL USE INFORMATION

6.1 Aerial Photograph Review

ECS reviewed aerial photographs of the subject property and immediately surrounding properties for evidence of former usage which may indicate potential environmental issues. The aerial photographs were obtained from EDR and the McDowell County GIS website. The aerial photographs reviewed were dated 1940, 1947, 1950, 1955, 1961, 1964, 1975, 1978, 1984, 1988, 1993, 1998, 2006, 2009, 2012, 2016, and 2018. Aerial photographs dated prior to 1940 were not available for review. The ECS review is dependent on the quality and scale of the photographs.

The following is a description of relevant information from the aerial photographs:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1940	**Several industrial buildings**	North - Road followed by apparent residences and commercial buildings East - Road and railroad followed by commercial buildings South - Railroad followed by industrial facility and apparent vacant land West - Road followed by residences	Yes
1947	**Several industrial buildings;** buildings in the northeastern portion of the property have been demolished	North - Road followed by apparent residences and commercial building East - Road and railroad followed by commercial buildings South - Railroad and apparent recreational field followed by industrial facility West - Road and residences	Yes

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1950 and 1955	**Several industrial buildings**	North - Road followed by apparent residences and commercial building East - Road and railroad followed by commercial buildings South - Railroad and apparent recreational field followed by industrial facility West - Road followed by residences	Yes
1961, 1964, 1975, and 1978	**Several industrial buildings**	North - Road followed by apparent residences and commercial building East - Road and railroad followed by commercial buildings and residences South - Railroad and apparent recreational field followed by industrial facility West - Road followed by residences	Yes
1984, 1988, 1993, and 1998	**Several industrial buildings**	North - Road followed by apparent residences and commercial buildings East - Road and railroad followed by commercial buildings and residences South - Railroad and apparent recreational field followed by industrial facility West - Road followed by vacant land and commercial building to the northwest	Yes

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
2006, 2009, and 2012	**Several industrial buildings**	North - Road followed by apparent residences and commercial buildings East - Road and railroad followed by commercial buildings and residences South - Railroad and vacant land followed by industrial facility West - Road followed by residence and commercial building to the northwest	Yes
2016 and 2018	Industrial buildings on the property appear to have been demolished	North - Road followed by residences and commercial buildings East - Road and railroad followed by commercial buildings and residences South - Railroad and vacant land followed by industrial facility West - Road followed by residence and commercial building to the northwest	Yes

6.2 Sanborn Fire Insurance Map Review

In an effort to identify past uses, ECS reviewed historical fire insurance maps obtained from EDR for information regarding the subject property and surrounding area. Historical Sanborn™ Fire Insurance Maps (Sanborns) dated 1894, 1896, 1902, 1908, 1913, 1918, 1922, 1928, 1939, and 1956 provided coverage of the subject property area. A copy of the EDR report is included in Appendix IV.

- The subject property operated as an industrial facility from at least 1902 through 2012. Based on the historic use of the subject property as an industrial facility, ECS considers this to represent a REC.
- The upgradient, northern adjoining property was occupied by a mill, varnish and oil house, and knitting mill from 1918 through 1956. Based on the distance and topographic relation to the subject property, ECS considers this facility to represent a REC for the subject property.
- The upgradient, northwestern adjoining property was occupied by a hosiery mill from 1922 through 1939. Based on the distance and topographic relation to the subject property, ECS considers this facility to represent a REC for the subject property.

The following is a description of relevant information from the Sanborns:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1894	Eastern portion of property is vacant land, remainder of property is unmapped	North - Unmapped East - Railroad, road and Blanton and Morgan Tannery and Grist Mill (downgradient) South - Unmapped West - Unmapped	No
1896	Unmapped	North - Unmapped East - Railroad, road and Blanton and Morgan Tannery and Grist Mill (downgradient) South - Unmapped West - Unmapped	No
1902	**Western Furniture Co in eastern portion of property**, remainder of property is vacant land and unmapped	North - Unmapped East - Railroad, road, and Marion Tanning Co (downgradient) South - McDowell Furniture Co and vacant land (downgradient) West - Unmapped	Yes
1908	Vacant land and unmapped	North - Unmapped East - Railroad, road, and Marion Tanning Co (downgradient) South - Road, vacant land and McDowell Furniture Co (downgradient) West - Unmapped	No
1913	Vacant land and unmapped	North - Unmapped East - Roads, railroad, block factory, and Marion Tanning Co (downgradient) South - Road, vacant land and McDowell Furniture Co (downgradient) West - Unmapped	No

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1918	Unmapped	North - **Daisy Glove Mill followed by Carolina Hosiery Mill (Willwear Hosiery property)**, vacant land, and unmapped East - Roads, railroad, general store and Marion Leather Co (downgradient) South - Unmapped West - Unmapped	Yes
1922	**Drexel Furniture Co Mill No 2 and Marion Veneer and Panel Co**	North - **Varnish and Oil House** followed by residences East - Roads, railroad followed by Marion Leather Company and Marion Ice and Coal Company (downgradient) South - Railroad, road, Chapman Lumber Co, and furniture company (downgradient) West - Road and residences with **O.F. James' Carolina Hosiery Mills to northwest**	Yes
1928	**Drexel Furniture Co, Marion Veneer and Panel Co, and Teague Furniture Co**	North - Road followed by residences East - Railroad, road, feed storage and wholesale shop with gasoline tank, Marion Leather Co with 15,000-gallon fuel oil tank, National Utilities Co of NC, and Marion Ice and Fuel Co with gas tank (downgradient) South - Railroad and road followed by Chapman Lumber Co, and McDowell Furniture Co (downgradient) West - Road and residences with **Elizabeth James Mill to the northwest**	Yes

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1939	**Drexel Furniture Co**	North - Road followed by residences and **R.L James and Son knitting mill (Willwear Hosiery property)** East - Railroad, road, feed storage and wholesale shop with gasoline tank, 15,000-gallon fuel oil tank, Southern Public Utilities, and Marion Ice and Fuel Co (downgradient) South - Railroad and road followed by McDowell Furniture Co (downgradient) West - Road and residences with **Elizabeth James Mill to the northwest**	Yes
1956	**Drexel Furniture Co**	North - Road followed by residences and **R.L. James and Son knitting mill** East - Railroad, road, warehouse, vacant building and Marion Ice and Fuel Co (downgradient) South - Railroad and road followed by Broyhill Furniture Co (downgradient) West - Road and residences with paper storage and furniture warehouse to the northwest	Yes

6.3 Historical USGS Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS) for various time periods. ECS reviewed topographic maps of the subject property and immediately surrounding properties for evidence of former usage that may indicate potential environmental issues. The topographic maps were obtained from EDR and were dated 1900, 1902, 1962, 1985, 1994, 2013, 2016, and 2019. Topographic maps dated prior to 1900 were not available for review.

- The subject property operated as an industrial facility from at least 1902 through 2012. Based on the historic use of the subject property as an industrial facility, ECS considers this to represent a REC.

The following is a description of relevant information from the topographic maps:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1900 and 1902	Portion of road and railroad spur along eastern property boundary; topography slopes southeast	North - Road followed by structures East - Roads and unnamed tributary South - Railroad, road, and unnamed tributary West - Road and unnamed tributary	No
1962	**Industrial facilities**; topography slopes southeast	North - Road followed by church East - Roads, railroad spur and structures South - Road and railroad spur West - Roads	Yes
1985 and 1994	**Industrial facility**; topography slopes southeast	North - Roads followed by churches East - Road and railroad spur South - Road and railroad spur followed by industrial facilities West - Roads	Yes
2013	Portion of a road; topography slopes southeast *Private structures are not depicted on this map*	North - Roads East - Road and railroad spur South - Railroad spur West - Roads	No
2016	No features; topography slopes southeast *Private structures are not depicted on this map*	North - Roads East - Road and railroad spur South - Railroad spur West - Roads	No
2019	Portion of unnamed tributary; topography slopes southeast *Private structures are not depicted on this map*	North - Roads East - Road, railroad spur, unnamed tributaries and Youngs Fork South - Railroad spur West - Roads	No

6.4 City Directory Review

One of the ASTM standard historical sources to be reviewed for previous subject property uses is local street directories, commonly known as City Directories. The purpose of the directory review is to identify past occupants of the subject property, adjoining properties, or nearby properties. In some rural areas, street directories information is limited.

ECS reviewed city directories obtained from EDR. The subject property address utilized for the research was 70 Blue Ridge Street. The directories reviewed were dated 1962, 1966, 1992, 1995, 2000, 2005, 2010, 2014, and 2017. The directories reviewed prior to 1962 did not provide listings for the subject property or surrounding area. Directories dated prior to 1962 were not available for review. A copy of the city directory report is included in Appendix IV.

- The subject property operated as an industrial facility from at least 1902 through 2012. Based on the historic use of the subject property as an industrial facility, ECS considers this to represent a REC.

The following is a description of relevant information from the city directories:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1962	**Drexel Furniture Co manufacturers**	North - Residences and vacant East - No listings South - No listings West - No listings	Yes
1966	**Drexel Furniture Co manufacturers**	North - Residences East - No listings South - No listings West - No listings	Yes
1992	No listings	North - Residences East - No listings South - No listings West - Residences	No
1995	**Drexel Heritage Furnishings**	North - Residences East - No listings South - No listings West - Residences	Yes
2000	Canteen Vending, **Drexel Heritage, Drexel Heritage Furniture Co Main Office**	North - Residence East - No listings South - No listings West - No listings	Yes

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
2005	Canteen Vending	North - Residences and unknown occupant East - No listings South - No listings West - Blue Ridge Terrance Apartments, residences	No
2010	No listings	North - Residences and unknown occupant East - No listings South - No listings West - Blue Ridge Terrance Apartments, residences	No
2014 and 2017	No listings	North - Residences East - No listings South - No listings West - Blue Ridge Terrace Apartments and residences	No

6.5 Property Tax Files

Property tax files may include records of past ownership, appraisals, maps, sketches, photos, or other information kept by the local jurisdiction for property tax assessment purposes. According to the McDowell County tax assessor online information, the subject property is owned by City of Marion and McDowell County. The subject property is listed as a 15.29-acre parcel with an identification number of 1701-10-46-6003. Additionally, no on-site buildings are identified on the property tax card. Prior owners of the subject property include Drexel Heritage Furnishings, Drexel Enterprises, Marion Property LLC, Fred and Kathy Godley, and Champion International Corporation formerly known as U.S. Plywood-Champion Papers Inc.

6.6 Recorded Land Title Records

Recorded land title records may include leases, land contracts, and AULs recorded by the local jurisdiction. Land title records may provide only a list of the names of previous owners and may be of limited use; however, they may provide useful information about uses or occupancy of the property when employed in combination with other sources.

ECS was not provided with Land Title Records.

6.7 Building Department Records

The term building department records means those records of the local government indicating permissions of the local government to construct, alter or demolish improvements on the property.

ECS reviewed the building permit available from the McDowell County Online Inspections Portal. No building permits associated with the subject property were available for review.

6.8 Zoning/Land Use Records

The term zoning/land use records refers to records of the local government indicating the uses permitted by the government in particular zones within its jurisdictions.

ECS reviewed zoning/land use records obtained from the City of Marion Planning and Zoning Department. The subject property is currently zoned for M1 - Industrial district use.

6.9 Previous Reports

A Phase I Environmental Site Assessment was conducted by Tetra Tech in March 2016 as part of the Brownfields Property Application. According to the report reviewed, the subject property was developed with mostly demolished buildings with piles of rubble and building foundations covering majority of the site and had historically been utilized for various furniture, cabinet, and laminate manufacturing operations with portions of the property operating as furniture manufacturing since at least 1902. This Phase I identified several RECs including: the presence of a fuel oil UST on the subject property, the presence of an OWS on the subject property, the presence of additional USTs or former aboveground storage tanks (ASTs) on the subject property, the aluminum-clad steel frame building with numerous 55-gallon drums and smaller containers, an on-site brick building that contained 55-gallon drums located along Blue Ridge Street east of the office building, and fluorescent light bulbs and fixtures throughout the on site building and the potential presence of polychlorinated biphenyls (PCBs) and mercury in the bulbs. Additionally, a regulatory database search identified the subject property on the Leaking Aboveground Storage Tank (LAST) and Leaking Underground Storage Tank (LUST) database and a documented release from the historical operations of the fuel oil and fuel USTs were considered to represent a REC. Additional RECs included: 15 UST or AST sites within 0.25 miles of the site and upgradient of the site, the presence of an automotive repair property 0.03 miles north of the site, and a dry cleaner 0.136 miles northeast of the site. ECS cannot attest to the accuracy of the information reviewed.

ECS previously conducted a Limited Asbestos Survey for the subject property in July 2017 (ECS Project Number 49:3978-B). Asbestos was detected in the samples collected from the buildings. Asbestos was detected in black mastics on brick and CMU block, cementitious panels, 12-inch grey floor tile and black mastic in the office, white window glazing in the office, and bags of TSI and possibly other asbestos containing materials piled in the office (assumed positive). Additionally, lead based paint was detected in white paint on wood of the fire protection shack outside of the office and cream paint on trim wood in machine building.

ECS conducted a File Review for the subject property in August 2017 (ECS Project Number 49:3978-A). Based on the file review conducted, ECS recommended the following:

- Additional assessment in the form of the removal of the two USTs and associated product piping followed by soil and groundwater sampling;
- The removal of the buried #5 fuel oil waste and collecting closure soil and groundwater samples;
- Soil and groundwater sampling in the vicinity of the former gasoline UST located on the northern portion of the subject property;
- Soil and groundwater sampling in the vicinity of the former 3,000-gallon AST located east of the chemical storage building;
- The removal of the OWS followed by soil sampling;
- The characterization, removal and disposal of 55-gallon drums and their contents observed in the aluminum-clad steel frame building and in the vicinity of the chemical storage building;
- Soil and groundwater sampling in the former drum locations associated with the aluminum-clad steel frame building;
- Soil sampling of the heavy staining observed in the aluminum-clad steel frame building;
- Soil sampling in the vicinity of the former drum rack located west of the chemical storage building and south of the office building; and
- Groundwater and soil sampling south of the former Willwear Hosiery facility.

ECS conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). The report indicated that 21 soil borings were advanced at the subject property and 12 permanent monitoring wells were installed. Laboratory analysis indicated soil sample GP-5, which was collected in the vicinity of the USTs and OWS located on the central portion of the subject property detected several petroleum compounds, including benzo(a)anthracene above its Soil-to-Water Maximum Soil Contaminant Concentration Level (MSCC), but below it's Residential MSCC. Laboratory analysis of soil sample GP-6, collected from the vicinity of the drums and staining within the aluminum-clad steel frame building located on the southwestern portion of the subject property, detected several petroleum compounds including P-isopropyltoluene, naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene at concentrations above their respective Soil-to-Water MSCCs, but below their Residential MSCCs. Laboratory analysis of soil samples GP-7D and GP-8 indicated arsenic, chromium, and selenium at concentrations over 2.5 and 8 times the highest background soil sample. Chromium was also detected in soil sample GP-19 at a concentration of over 6 times the highest background soil sample. These elevated concentrations were likely due to previous activities conducted at the former facility. Laboratory analysis of the groundwater sample MW-5, which was collected on the northern portion of the subject property, downgradient of the former UST and SVE/AS system and former Willwear Hosiery Manufacturing Company detected several petroleum compounds. Benzene, ethylebenzene, naphthalene, toluene, total xylenes, 1-methylnaphthalene, and 2-methylnaphthalene were detected at concentrations above their respective NC 2L Groundwater Quality Standards, but below their applicable Gross Contaminant Levels (GCLs).

ECS conducted an Asbestos Abatement Specification report for the subject property in March 2018 (ECS Project Number 49:3978-D). The report detailed the removal of asbestos-containing materials (ACM) that was previously detected on the subject property. As ACM was comingled among debris at the subject property, there is a potential that ACM remains at the subject property. ECS considers the potential presence of ACM to be a business environmental risk (BER).

ECS conducted a UST and OWS Fluid Removal and Disposal Report for the subject property in August 2019 (ECS Project Number 49:3978-F). The report indicated that a group of four USTs and the OWS were located in the central portion of the property. Three of the USTs have capacities of approximately 30,000-gallons and one has a capacity of approximately 20,000-gallons. Approximately 31,296 gallons of #6 oil and water mixture were removed from the USTs and OWS and transported to HOH Corporation in Winston-Salem, NC for disposal. The USTs and OWS openings were covered with plywood anchored down by concrete screws to prevent rainwater from entering the USTs and OWS and to prevent injuries. In addition, a total of eight drums were identified in various locations on the property including in and in the vicinity of the former chemical building and in the vicinity of the former aluminum clad building. The drums contained cleaners and #2 tool oil. Approximately 2,000 pounds of fluid were transported to the DHG facility in Greensboro, NC for disposal.

ECS conducted a Soil Remediation Report for the subject property in August 2019 (ECS Project Number 49:3978-F). The report indicated that approximately 74.68 tons of petroleum impacted material was excavated and disposed of at an approved facility from an active petroleum release area in the central portion of the subject property. Following excavation activities, ECS collected a confirmatory soil samples. Laboratory analysis of the soil samples indicated VOCs, SVOCs, RCRA Metals, Mercury, and Hexavalent Chromium at concentrations above Protection of Groundwater, Residential and Industrial/Commercial Health Based PSGRs in the northern, eastern, and western walls of the excavation from prior uses of the property. ECS considers the documented contamination present on the subject property to represent a REC for the subject property.

6.10 Other Historical Sources

Other credible historical sources may be reviewed to identify past uses of the subject property. These sources may include websites, county or state road maps, historical society documents, or local library information.

6.10.1 State Environmental Agency

ECS reviewed the North Carolina Department of Environmental Quality (NCDEQ) Laserfiche and GIS website for more information associated with the subject property and surrounding area. For more information on the files reviewed, see the subject property's listing in Section 5.2.7.

6.10.2 Local Fire Department

The City of Marion Fire Department was contacted to determine if they had historical information regarding environmental issues or responses at the subject property. A Freedom of Information Act request was submitted to the Fire Department on October 19, 2022. No information has been received at the time of the report completion. If information is received that changes the conclusions or recommendations of this report, ECS will forward the information to the Client.

6.10.3 Local Health Department

Ms. Jennifer Brumbaugh contacted the McDowell County Environmental Health Department on October 19, 2022 to determine if they had historical information regarding environmental issues or responses at the subject property. No information has been received at the time of the report completion. If information is received that changes the conclusions or recommendations of this report, ECS will forward the information to the Client.

6.11 Historical Use Summary

Based on the records search, site reconnaissance and interviews, it appears that the subject property was utilized as vacant land as early as 1894. By 1902, the Western Furniture Co is located in the eastern portion of the property and the remainder of the property is vacant land. In 1922, the property is occupied by Drexel Furniture Co Mill No 2 and Marion Veneer and Panel Company. In 1928, the property is also occupied by the Teague Furniture Company. By 1939, the property is occupied by Drexel Furniture Company. The subject property operates as Drexel Furniture Co through 2004, when the property is purchased by Marion Property LLC. The property is then vacant and portions of the on-site buildings were demolished. The property was transferred over to McDowell County and the City of Marion in 2014. In 2018, the remaining on-site structures were demolished and the property appears as it does currently as undeveloped, vacant land. ECS considers the historical use of the subject property as an industrial facility to be a REC. ECS considers the potential for PFAS contamination resulting from the historic use of the subject property to represent a BER.

Historical aerial photographs depict apparent industrial structures on the subject property that were not located on the subject property during our site reconnaissance. ECS does not have technical evidence how these structures were heated, or if the structures utilized septic tanks or water supply wells. Based on the age, it is possible that the structures were heated with oil stored in USTs. ECS did not observe evidence of septic tanks, or water supply wells during our site reconnaissance. While not considered a REC at this time, if encountered during site development additional unidentified, USTs, septic systems, and water supply wells should be closed in accordance with applicable laws.

The surrounding area has developed slowly from a primarily undeveloped and commercial area that transitioned to a mixed residential and commercial area by the 1920s. The northern adjoining property was occupied by the Daisy Glove Mill in 1918 and a varnish and oil house in 1922. By 1939, the northern adjoining property was occupied by R.L. James and Son Knitting Mill, which operated through 1956. This is the Willwear Hosiery property. Based on the distance and topographic relation to the subject property, ECS considers this facility to represent a REC for the subject property.

No obvious indications of RECs were identified in the historical data review with the exception of the following:

- The subject property operated as a furniture manufacturing facility from at least 1902 through 2004 and is listed as Active Eligible with the NCDEQ Brownfields Program. Based on the length of use as a manufacturing facility and as well as documented contamination at the property as a result of previous assessments, ECS considers this to represent a REC.

- The upgradient, northern adjoining property was occupied by a mill, varnish and oil house, and knitting mill from 1918 through 1956. This is the Willwear Hosiery property. Based on the distance and topographic relation to the subject property, ECS considers the potential for impacts from this facility to represent a REC.
- The upgradient, northwestern adjoining property was occupied by a hosiery mill from 1922 through 1939. Based on the distance and topographic relation to the subject property, ECS considers this facility to represent a REC for the subject property.

7.0 SITE AND AREA RECONNAISSANCE

7.1 Methodology

James C. Bevers, PE of ECS conducted the field reconnaissance on October 21, 2022. The weather at the time of the reconnaissance was 60 degrees Fahrenheit and sunny. Observations were made from a walking reconnaissance around the perimeter and along several transects across the subject property. Access or visibility limitations, if any, are discussed in Section 2.6. Subject property photographs are included in Appendix V.

7.2 On-Site Features

7.2.1 Observed Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

The topography on the subject property and surrounding areas slopes from the west and north to the southeast. Drainage features are not located on the subject property. However, stormwater at the subject property is controlled by inlets connected to a subgrade system.

7.2.2 Past Site Uses

The subject property includes several concrete slabs that are indicative of prior development with an industrial facility.

7.2.3 Current Uses

The subject property includes several concrete slabs from prior development with an industrial facility. The northeast portion of the subject property includes a fenced area that was a parking lot. The area is currently grown over with dense vegetation. A retaining wall is present to the south of the parking lot. A large water tank is located along the southern boundary. The southeast portion of the subject property is covered in vegetation. The site vicinity is provided with water and sewer by the City of Marion and electricity is provided by Duke Energy.

The table below lists pertinent features of interest that were assessed for the subject property. Relevant information regarding pertinent features is discussed further in this section.

Feature	Yes	No
Hazardous Substances and Petroleum Products in Connection with Identified Uses		✔
Hazardous Substance and Petroleum Product Containers Not in Connection with Identified Uses		✔
Drums, Totes, and Intermediate Bulk Containers		✔
Unidentified Substance Containers		✔
Underground or Aboveground Storage Tanks	✔	

Feature	Yes	No
Strong, Pungent or Noxious Odors		✔
Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances or Petroleum Products		✔
Known or Suspect PCB-containing Equipment		✔
Stains or Corrosion to Floors, Walls or Ceilings		✔
Stained Soil or Pavement		✔
Floor Drains and Sump Pumps		✔
Pits, Ponds or Lagoons		✔
Stressed Vegetation		✔
Solid Waste Mounds or Non-natural Fill Materials		✔
Water/Wastewater Discharge		✔
Groundwater Wells	✔	
Septic Systems or Cesspools		✔
Hydraulic Equipment (Elevators, Lifts, Compactors, Etc.)		✔
Dry Cleaning		✔
Specialized Industrial Equipment		✔
Onsite Electrical Generators		✔
Oil-water Separators	✔	

Underground or Aboveground Storage Tanks

The subject property includes a UST basin which consists of four USTs located on the central portion of the subject property. Three of the USTs have capacities of approximately 30,000-gallons and one of the USTs has a capacity of approximately 20,000-gallons. The USTs previously contained heating oil for a boiler associated with the former industrial facility.

Groundwater Wells

Twelve groundwater monitoring wells are located on the subject property associated with prior assessment activities. However, ECS did not observe the monitoring wells while conducting the site reconnaissance. Based on a review of the prior assessment, eleven of the monitoring wells are flush mounted and one monitoring well is stick-up.

Oil-water Separators

The UST basin also includes an approximate 2,000-gallon OWS. The OWS was associated with the former industrial building.

7.3 Adjoining and Nearby Properties

Contiguous and nearby properties were observed during a walking and vehicular reconnaissance of the subject property boundary and public places. The subject property is located in a commercial and residential area of Marion, McDowell County, North Carolina.

Direction	Description	Relative Gradient	REC
North	Blue Ridge Street, beyond which is a grocery store, an **unmarked commercial/industrial building formerly occupied by the Willwear Hosiery facility**, a church and a residential neighborhood. An O'Reilly Auto Parts/RK's Automotive is located further north which is a current **automotive repair** and appears to be a **former service fueling station.**	Up-gradient	Yes
Southeast	Railroad tracks, beyond which is Bryant & Young Lumber.	Down-gradient	No
Southwest	A residential neighborhood and an open vegetated area.	Up-gradient	No
West	Carson Street, beyond which are apartments, residences, and Blue Ridge Terrace, which is an apartment complex to the northwest.	Up-gradient	No

Pertinent features of environmental concern were not observed on adjoining or nearby properties during the site reconnaissance.

7.4 Site and Area Reconnaissance Summary

According to our observations of the subject and surrounding properties, the subject property was previously developed with an industrial facility which is no longer present. Concrete slabs and a parking lot remain from the prior development. Details pertaining to our on-site and off-site observations are referenced previously. The following RECs were identified during our on-site and off-site reconnaissance:

- ECS considers the Willwear Hosiery property on the adjoining property to the north across Blue Ridge Street to be a REC due to the potential for a release from this property to impact the subject property.
- ECS considers the prior use of the subject property as a manufacturing facility to represent a REC.

- ECS considers the USTs and OWS to be RECs due to the potential for releases to impact the soil and groundwater beneath the subject property.
- ECS considers the O'Reilly Auto Parts/RK's Automotive which appears to be an automotive repair and former fueling station located to the north to represent a REC due to the potential for a release from this property to impact the subject property.

8.0 ADDITIONAL SERVICES

ASTM guidelines identify non-scope issues, which are beyond the scope of this practice. Non-scope issues have the potential to be business environmental risks. Some of these non-scope issues include; asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, and mold.

ECS was not authorized to assess non-scope issues in conjunction with this assessment.

9.0 INTERVIEWS

Ms. Jennifer Brumbaugh received a Property Owner Interview completed by Ms. Heather Cotton with the City of Marion. She has been associated with the subject property for approximately eight years and has significant knowledge related to the subject property and associated activities. She indicated that the subject property is currently undeveloped, but formerly was occupied by a manufacturing facility. During the demolition of the approximately 168,000 square foot facility, approximately 3,000 tons of comingled asbestos containing material and lead based paint demolition debris was removed from the property. Ms. Cotton indicated that the subject property formerly operated as Drexel Heritage Furniture Inc, a furniture manufacturing facility from 1902 through 2004. The property has remained vacant since 2004. The subject property was purchased by Marion Property LLC in 2004. Mr. Fred Godley, associated with Marion Property LLC, is donating the property to McDowell County/ City of Marion to avoid tax foreclosure. Ms. Cotton indicated that four empty USTs and one oil/ water separator are located on the subject property. Additionally, twelve groundwater monitoring wells have been installed throughout the subject property. Ms. Cotton indicated that she is not aware of 1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, at, or from the subject property; 2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the subject property; or 3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

Copies of interview documentation are included in Appendix II.

ECS interviewed local government officials and agencies via written Freedom of Information Act requests. Information gained from such sources is included in Section 6.10.

10.0 FINDINGS AND CONCLUSIONS

10.1 Findings and Opinions

The subject property is identified by McDowell County Online Geographic Information Systems (GIS) website as Parcel Identification Number (PIN) 1701-10-46-6003 and is owned by City of Marion and McDowell County. The approximately 15.29-acre subject property is currently vacant land. Building pads from the prior development are present on the subject property. The subject property is serviced by municipal water and sanitary sewer. ECS observed an underground storage tank (UST) basin which consists of four USTs and an oil-water separator (OWS) located on the central portion of the subject property. The USTs reportedly previously contained heating oil for a boiler associated with the former industrial facility.

The subject property is located in a mixed commercial and residential area of Marion, North Carolina. Based on our review of site topography and conditions observed during the site reconnaissance, it is our opinion that properties to the north, northwest, and west are presumed to be hydrogeologically up-gradient of the subject property. The subject property is bound on the north by Blue Ridge Street, beyond which is a grocery store, an **unmarked commercial/industrial building formerly occupied by the Willwear Hosiery facility**, a church and a residential neighborhood. An O'Reilly Auto Parts/ RK's Automotive is located further north which is a current **automotive repair** and appears to be a **former service fueling station.** The subject property is bound on the east by railroad tracks, beyond which is Bryant & Young Lumber, on the south by a residential neighborhood and open vegetated area; and on the west by Carson Street, beyond which are apartments, residences, and Blue Ridge Terrace, which is an apartment complex to the northwest. ECS did not identify environmental issues associated with current occupants or activities at adjoining or nearby properties that are believed to present a recognized environmental condition (REC) at the subject property with the exception of the northern adjoining former Willwear Hosiery facility and automotive repair facility/former fueling station.

Based on the records search, site reconnaissance and interviews, it appears that the subject property was utilized as vacant land as early as 1894. By 1902, the Western Furniture Co is located in the eastern portion of the property and the remainder of the property is vacant land. In 1922, the property is occupied by Drexel Furniture Co Mill No 2 and Marion Veneer and Panel Company. In 1928, the property is also occupied by the Teague Furniture Company. By 1939, the property is occupied by Drexel Furniture Company. The subject property operates as Drexel Furniture Co through 2004, when the property is purchased by Marion Property LLC. The property is then vacant and portions of the on-site buildings were demolished. The property was transferred over to McDowell County and the City of Marion in 2014. In 2018, the remaining on-site structures were demolished and the property appears as it does currently as undeveloped, vacant land. ECS considers the historical use of the subject property as an industrial facility to be a REC. Historical records prior to 1894 were not reasonably ascertainable for the subject property.

Historical aerial photographs depict apparent industrial structures on the subject property that were not located on the subject property during our site reconnaissance. ECS does not have technical evidence how these structures were heated, or if the structures utilized septic tanks or water supply wells. Based on the age, it is possible that the structures were heated with oil stored in USTs. ECS did

not observe evidence of septic tanks, or water supply wells during our site reconnaissance. While not considered a REC at this time, if encountered during site development additional unidentified, USTs, septic systems, and water supply wells should be closed in accordance with applicable laws.

The surrounding area has developed slowly from a primarily undeveloped and commercial area that transitioned to a mixed residential and commercial area by the 1920s. The northern adjoining property was occupied by the Daisy Glove Mill in 1918 and a varnish and oil house in 1922. By 1939, the northern adjoining property was occupied by R.L. James and Son Knitting Mill (also known as Willwear Hosiery), which operated through 1956. The upgradient, northwestern adjoining property was occupied by a hosiery mill from 1922 through 1939. Based on the distance and topographic relation to the subject property, ECS considers these former mills to represent RECs for the subject property.

A Phase I Environmental Site Assessment was conducted by Tetra Tech in March 2016 as part of the Brownfields Property Application. According to the report reviewed, the subject property was developed with mostly demolished buildings with piles of rubble and building foundations covering majority of the site and had historically been utilized for various furniture, cabinet, and laminate manufacturing operations with portions of the property operating as furniture manufacturing since at least 1902. This Phase I identified several RECs including: the presence of a fuel oil UST on the subject property, the presence of an OWS on the subject property, the presence of additional USTs or former aboveground storage tanks (ASTs) on the subject property, the aluminum-clad steel frame building with numerous 55-gallon drums and smaller containers, an on-site brick building that contained 55-gallon drums located along Blue Ridge Street east of the office building, and fluorescent light bulbs and fixtures throughout the on site building and the potential presence of polychlorinated biphenyls (PCBs) and mercury in the bulbs. Additionally, a regulatory database search identified the subject property on the Leaking Aboveground Storage Tank (LAST) and Leaking Underground Storage Tank (LUST) database and a documented release from the historical operations of the fuel oil and fuel USTs were considered to represent a REC. Additional RECs included: 15 UST or AST sites within 0.25 miles of the site and upgradient of the site, the presence of an automotive repair property 0.03 miles north of the site, and a dry cleaner 0.136 miles northeast of the site. ECS cannot attest to the accuracy of the information reviewed.

ECS conducted a File Review for the subject property in August 2017 (ECS Project Number 49:3978-A). Based on the file review conducted, ECS recommended the following:

- Additional assessment in the form of the removal of the two USTs and associated product piping followed by soil and groundwater sampling;
- The removal of the buried #5 fuel oil waste and collecting closure soil and groundwater samples;
- Soil and groundwater sampling in the vicinity of the former gasoline UST located on the northern portion of the subject property;
- Soil and groundwater sampling in the vicinity of the former 3,000-gallon AST located east of the chemical storage building;
- The removal of the OWS followed by soil sampling;
- The characterization, removal and disposal of 55-gallon drums and their contents observed in the aluminum-clad steel frame building and in the vicinity of the chemical storage building;

- Soil and groundwater sampling in the former drum locations associated with the aluminum-clad steel frame building;
- Soil sampling of the heavy staining observed in the aluminum-clad steel frame building;
- Soil sampling in the vicinity of the former drum rack located west of the chemical storage building and south of the office building; and
- Groundwater and soil sampling south of the former Willwear Hosiery facility.

ECS conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). The report indicated that 21 soil borings were advanced at the subject property and 12 permanent monitoring wells were installed. Laboratory analysis indicated soil sample GP-5, which was collected in the vicinity of the USTs and OWS located on the central portion of the subject property detected several petroleum compounds, including benzo(a)anthracene above its Soil-to-Water Maximum Soil Contaminant Concentration Level (MSCC), but below it's Residential MSCC. Laboratory analysis of soil sample GP-6, collected from the vicinity of the drums and staining within the aluminum-clad steel frame building located on the southwestern portion of the subject property, detected several petroleum compounds including P-isopropyltoluene, naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene at concentrations above their respective Soil-to-Water MSCCs, but below their Residential MSCCs. Laboratory analysis of soil samples GP-7D and GP-8 indicated arsenic, chromium, and selenium at concentrations over 2.5 and 8 times the highest background soil sample. Chromium was also detected in soil sample GP-19 at a concentration of over 6 times the highest background soil sample. These elevated concentrations were likely due to previous activities conducted at the former facility. Laboratory analysis of the groundwater sample MW-5, which was collected on the northern portion of the subject property, downgradient of the former UST and SVE/AS system and former Willwear Hosiery Manufacturing Company detected several petroleum compounds. Benzene, ethylebenzene, naphthalene, toluene, total xylenes, 1-methylnaphthalene, and 2-methylnaphthalene were detected at concentrations above their respective NC 2L Groundwater Quality Standards, but below their applicable Gross Contaminant Levels (GCLs).

ECS conducted an Asbestos Abatement Specification report for the subject property in March 2018 (ECS Project Number 49:3978-D). The report detailed the removal of asbestos-containing materials (ACM) that was previously detected on the subject property. As ACM was comingled among debris at the subject property, there is a potential that ACM remains at the subject property. ECS considers the potential presence of ACM to be a business environmental risk (BER).

ECS conducted a UST and OWS Fluid Removal and Disposal Report for the subject property in August 2019 (ECS Project Number 49:3978-F). The report indicated that a group of four USTs and the OWS were located in the central portion of the property. Three of the USTs have capacities of approximately 30,000-gallons and one has a capacity of approximately 20,000-gallons. Approximately 31,296 gallons of #6 oil and water mixture were removed from the USTs and OWS and transported to HOH Corporation in Winston-Salem, NC for disposal. The USTs and OWS openings were covered with plywood anchored down by concrete screws to prevent rainwater from entering the USTs and OWS and to prevent injuries. In addition, a total of eight drums were identified in various locations on the property including in and in the vicinity of the former chemical building and in the vicinity of the former aluminum clad building. The drums contained cleaners and #2 tool oil. Approximately 2,000 pounds of fluid were transported to the DHG facility in Greensboro, NC for disposal.

ECS conducted a Soil Remediation Report for the subject property in August 2019 (ECS Project Number 49:3978-F). The report indicated that approximately 74.68 tons of petroleum impacted material was excavated and disposed of at an approved facility from an active petroleum release area in the central portion of the subject property. Following excavation activities, ECS collected a confirmatory soil samples. Laboratory analysis of the soil samples indicated VOCs, SVOCs, RCRA Metals, Mercury, and Hexavalent Chromium at concentrations above Protection of Groundwater, Residential and Industrial/Commercial Health Based PSGRs in the northern, eastern, and western walls of the excavation from prior uses of the property. ECS considers the documented contamination present on the subject property to represent a REC for the subject property.

A regulatory database search report was provided by Environmental Database Resources, Inc. (EDR). The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property.

The **subject property** is identified on the LAST database as **Drexel Heritage #2-#5 Fuel Oil** at **Drexel Heritage #2** and has a UST Number of AS-88134. This facility has a recorded petroleum release in April 1994 that received a No Further Action (NFA) letter in May 1995. ECS requested files associated with this release from the North Carolina Department of Environmental Quality (NCDEQ). At the time of the issuance of this report, ECS has not received files associated with this listing. According to a site plan previously provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. ECS previously conducted a Soil and Groundwater Assessment for the subject property in March 2018 (ECS Project Number 49:3978-C). Laboratory analysis of soil samples collected in the vicinity of the former AST indicated arsenic, chromium, and selenium; however, background soil samples collected from the northeastern portion of the subject property detected arsenic, chromium, and selenium at similar concentrations. A groundwater sample, MW-6, was also collected in the vicinity of the former AST. Laboratory analysis of this sample indicated concentrations of targeted constituents (chloroform, barium, and chromium) above laboratory detection limits, but below NC 2L Groundwater Quality Standards. Based on the closed out status of this release as well as the historic sampling conducted in the vicinity of the former AST, ECS considers this listing to represent an historical recognized environmental condition (HREC) for the subject property.

The **subject property** is identified on the LUST database as **Drexel Heritage #2** at **361 Blue Ridge Street** and has a UST Number of AS-1008. This facility has a recorded petroleum release in October 1992 during the removal of an approximately 550-gallon UST for gasoline that received a NFA letter in January 1998. According to files reviewed from the NCDEQ, six quarterly monitoring reports were completed by ERM-Southeast, Inc from January 1995 through July 1996. The reports indicated at least eleven monitoring wells were installed and the groundwater flow direction was determined to flow towards the south or southeast. In January 1995, approximately 0.06 feet of free product was observed in monitoring well MW-8, located south of the chemical storage building. Total benzene, toluene, ethylbenzene, and xylenes (BTEX) was detected in the monitoring wells sampled. In May and June 1995, a soil vapor extraction/air sparging (SVE/AS) groundwater remediation system was installed at the subject property. In July 1995, free product seepage was observed at the base of the retaining

wall located adjacent to the south wall of the chemical storage building. This seepage and free product previously noted appears to be related to the January 1994 fuel oil release from the Willwear Manufacturing property. By October 1995, the SVE/AS system was operating and a decreasing trend of targeted constituents was observed. Additional monitoring was conducted and the SVE/AS system was non-operational for a period of time due to a water main rupture. On April 21, 1998, the NCDEQ provided a NFA letter for this release. The NFA was provided based on a report which shows soil contamination is below the industrial/ commercial MSCCs and groundwater contamination is below the GCLs; however, the NFA notes that groundwater is not suitable for use as a water supply. Based on the NFA status of this release with a groundwater restriction, ECS considers this listing to represent a controlled recognized environmental condition (CREC) for the subject property.

The **subject property** is identified on the UST database as **Westwood NC II LLC** at **70 Blue Ridge Street** and has a Facility ID of 00-0-0000025221. This facility is identified as having three 25,000-gallon USTs for fuel oil that were installed in 1975 and have not been removed and one 5,000-gallon UST for non-petroleum products that was installed in 1960 and has not been removed. This facility is also identified as having one 8,000-gallon UST for was oil that was installed in 1975 and removed in 1992, one 550-gallon UST for gasoline that was installed in 1983 and removed in 1993, one 1,000-gallon UST for diesel fuel that was installed in 1981 and removed in 1992, one 6,048-gallon UST for lacquer thinner that was installed in 1961 and removed in 2002, and one 8,000-gallon UST for naptha that was installed in 1961 and removed in 1992. A UST Closure Report was completed by Shield Environmental Associates and was dated April 23, 2003. The diesel fuel, lacquer thinner, and naptha USTs were located between a building and a lumber pile south of the main facility and the gasoline UST was located north of the main facility, near the front gate. Upon removal of the diesel UST, no release was identified. Two soil samples were collected from the base of the excavation and were analyzed for Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO). Laboratory analysis detected concentrations of petroleum below North Carolina Action Levels.

Upon removal of the lacquer thinner, naptha and gasoline USTs odors were identified in the soil indicative of a release and impacted soil was subsequently removed. Ten cubic yards of impacted soil were removed from the based of each of the lacquer thinner and naptha USTs excavations and 85 cubic yards of soil was removed from the base of the gasoline UST excavation. Following soil removal associated with the lacquer thinner UST, one soil sample was collected from the base of the excavation and analyzed for RCRA metals, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). In addition, VOCs and SVOCs were also analyzed according to the Toxicity Characteristic Leachate Procedure (TCLP). RCRA metals, VOCs and SVOCs were not detected at concentrations above the laboratory reporting limits; however, the TCLP VOC and SVOC analysis detected several compounds at concentrations below the Federal TCLP regulatory limits.

Following soil removal associated with the naptha UST, three soil samples were collected from the base of the excavation and analyzed for TPH DRO and GRO. Laboratory analysis detected TPH DRO and GRO at concentrations below the North Carolina Action Levels. Following soil

removal associated with the gasoline UST, two soil samples were collected from the base of the excavation and analyzed for TPH GRO. Laboratory analysis detected concentrations of TPH GRO above the North Carolina Action Level.

The excavations associated with the diesel fuel, lacquer thinner, and naptha USTs were backfilled with clean material. The Shield report does not indicate that the gasoline UST excavation was filled with clean material. Additionally, the report does not indicated if the contaminated soils removed from the lacquer thinner, naptha, and gasoline UST excavations were disposed of off-site or treated and used on-site. The report indicated that Shield was conducting additional soil and groundwater assessment in the vicinity of the gasoline UST excavation; however, the report associated with the soil and groundwater assessment was not available for review. ECS considers the sampling in the vicinity of the diesel, lacquer thinner, and naptha USTs to be sufficient and does not consider this listing to represent a REC. For more information regarding the gasoline UST, see the subject property's LUST listing.

The **subject property** is identified on the Brownfields database as **Drexel Heritage** at **70 Blue Ridge Street** and has a Project ID of 20072-16-056. This facility is also identified on the US Brownfields database as **Drexel Mill/Drexel Heritage Furniture.** According to files available from the NCDEQ, the City of Marion submitted a Brownfields Property Application for the subject property in September 2016. At the time of the application, the City of Marion was in the process of acquiring the subject property from the former owner, who partially demolished buildings and structures on the property, but did not have the funds in order to fully cleanup the subject property. A Phase I Environmental Site Assessment was conducted by Tetra Tech in March 2016 as part of the Brownfields Property Application and is previously discussed. On November 3, 2016, this facility received a Letter of Eligibility into the Brownfields program and is listed as Active Eligible. ECS considers the documented impacts and potential for unidentified impacts from the former mill operations to represent a REC.

The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, issues associated with the listings in the database report are not believed to represent a REC for the subject property with the exception of the following:

Willwear Hoisery Mfg. Co Inc, 360 Blue Ridge Street - This facility is located adjoining to the north and topographically upgradient to the subject property. This facility is identified on the LAST and IMD database and has a UST Number of AS-11940. This facility is identified as having a recorded petroleum release in January 1994 that has not received an NFA letter. ECS reviewed files from the NCDEQ associated with this facility. According to the files reviewed, a release of approximately 2,000-gallons of heating oil occurred on January 21, 1994. A UST Closure Report was conducted by Alpha Environmental Sciences, Inc on April 10, 1995. One 8,000-gallon UST and one 550-gallon AST were removed and a new AST was installed. Approximately 294 tons of contaminated soil was excavated around the fill pipes, product lines, and beneath the location of the former AST. This soil was thermally treated at the facility and reused as fill. Heating oil/diesel was found to be leaking from the drainage pipes on the subject property, thought to have migrated from the Willwear facility. Groundwater monitoring wells were proposed to be installed at the subject property to delineate the plume; however, access to the subject property was denied. In lieu of installing the monitoring wells on the

subject property, Alpha installed three monitoring wells on the Willwear property. According to a Request for Closure dated August 11, 1999 and completed by Alpha, sampling of the monitoring wells was conducted in August 1998, March 1999, and July 1999. Alpha requested a closure of the incident due to analytical results showing concentrations of constituents below the North Carolina Groundwater Quality Standards. The incident has not been closed due to the lack of off-site data. Based on the open status of this release and the documented contamination that has reportedly migrated onto the subject property, ECS considers this to represent a REC for the subject property.

10.2 Significant Data Gaps

Significant data gaps that would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

10.3 De Minimis Conditions

ECS did not identify *de minimis* conditions associated with the subject property during this assessment.

10.4 Conclusions

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E1527-21 of the Former Drexel Mill Property located at 70 Blue Ridge Street, in Marion, McDowell County, North Carolina, the subject property. Any exceptions to, or deletions from, this practice are described in Section 2.6 of this report. This assessment has revealed the following recognized environmental conditions in connection with the subject property:

- The subject property operated as a furniture manufacturing facility from at least 1902 through 2004 and is listed as Active Eligible with the NCDEQ Brownfields Program. Based on the length of use as a manufacturing facility and as well as documented contamination at the property as a result of previous assessments, ECS considers this to represent a REC.
- ECS considers the USTs and OWS to be RECs due to the potential for releases to impact the soil and groundwater beneath the subject property.
- ECS considers the O'Reilly Auto Parts/RK's Automotive which appears to be an automotive repair and former fueling station located to the north to represent a REC due to the potential for a release from this property to impact the subject property.
- The upgradient, northern adjoining property (Willwear Hosiery) was occupied by a mill, varnish and oil house, and knitting mill from 1918 through 1956 and has a documented release. The incident has not been closed due to the lack of off-site data. Based on the open status of this release and the documented contamination that has reportedly migrated onto the subject property, ECS considers this to represent a REC for the subject property.
- The upgradient, northwestern adjoining property was occupied by a hosiery mill from 1922 through 1939. Based on the distance and topographic relation to the subject property, ECS considers this facility to represent a REC for the subject property.

The following CREC was identified during this assessment:

- The subject property is identified on the LUST database as Drexel Heritage #2 at 361 Blue Ridge Street and has a UST Number of AS-1008. The NFA was provided based on a report which shows soil contamination is below the industrial/commercial MSCCs and groundwater contamination is below the GCLs; however, the NFA notes that groundwater is not suitable for use as a water supply. Based on the NFA status of this release, ECS considers this listing to represent a CREC for the subject property.

The following HREC was identified during this assessment:

- The subject property is identified on the LAST database as Drexel Heritage #2-#5 Fuel Oil at Drexel Heritage #2 and has a UST Number of AS-88134. Based on the closed out status of this release as well as the historic sampling conducted in the vicinity of the former AST, ECS considers this listing to represent a HREC for the subject property.

The following BERs were identified during this assessment:

- ECS considers the potential presence of ACM in comingled debris to represent a BER.

- Per- and Polyfluoroalkyl Substances (PFAS) are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water and can be in a variety of products. While PFAS are not currently listed as CERCLA hazardous substances, there is evidence that exposure to PFAS can lead to adverse health outcomes. According to the EPA, PFAS have been manufactured and used in a variety of industries since the 1940s and can be found in materials such as food packaging, fire-fighting foams, water-repellent coatings, non-stick products, and various paints and cleaning products.

  On Thursday, August 25, 2022, the EPA signed a proposed rule to designate Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) as CERCLA Hazardous Substances. According to the proposed rule "the five broad categories of entities potentially affected by this action include: (1) PFOA and/or PFOS manufacturers (including importers and importers of articles); (2) PFOA and/or PFOS processors; (3) manufacturers of products containing PFOA and/or PFOS; (4) downstream product manufacturers and users of PFOA and/or PFOS products; and (5) waste management and wastewater treatment facilities". The EPA has identified various mills and manufacturing processes as industries that may be affected by the proposed EPA rule.

  While not currently considered a REC due to PFAS contaminants not being regulated as hazardous substances, ECS considers the potential for PFAS contamination resulting from the historic operations on-site to impact the subject property to represent a BER.

11.0 REFERENCES

ASTM E1527-21. Standard Practice for Environmental Site Assessment, Phase I Environmental Site Assessment Process.

Environmental Data Resources, Inc., The EDR Aerial Photo Decade Package (years 1940, 1947, 1950, 1955, 1961, 1964, 1975, 1978, 1984, 1988, 1993, 1998, 2006, 2009, 2012, and 2016), dated October 17, 2022.

Environmental Data Resources, Inc., Certified Sanborn Map Report (years 1894, 1896, 1902, 1908, 1913, 1918, 1922, 1928, 1939, and 1956), dated October 17, 2022.

Environmental Data Resources, Inc., EDR City Directory Image Report (years 1962, 1966, 1992, 1995, 2000, 2005, 2010, 2014, and 2017), dated October 17, 2022.

Environmental Data Resources, Inc., Historical Topo Map Report, dated October 12, 2022.

Environmental Data Resources, Inc., The EDR Radius Map Report, dated October 12, 2022.

McDowell County GIS website, accessed on October 12, 2022.

North Carolina Department of Environmental Quality, Regulatory Files.

Property Owner Interview with Ms. Heather Cotton with City of Marion, dated October 27, 2022.

User Questionnaire completed by Ms. Heather Cotton with City of Marion, dated October 27, 2022.

Appendix I: Figures

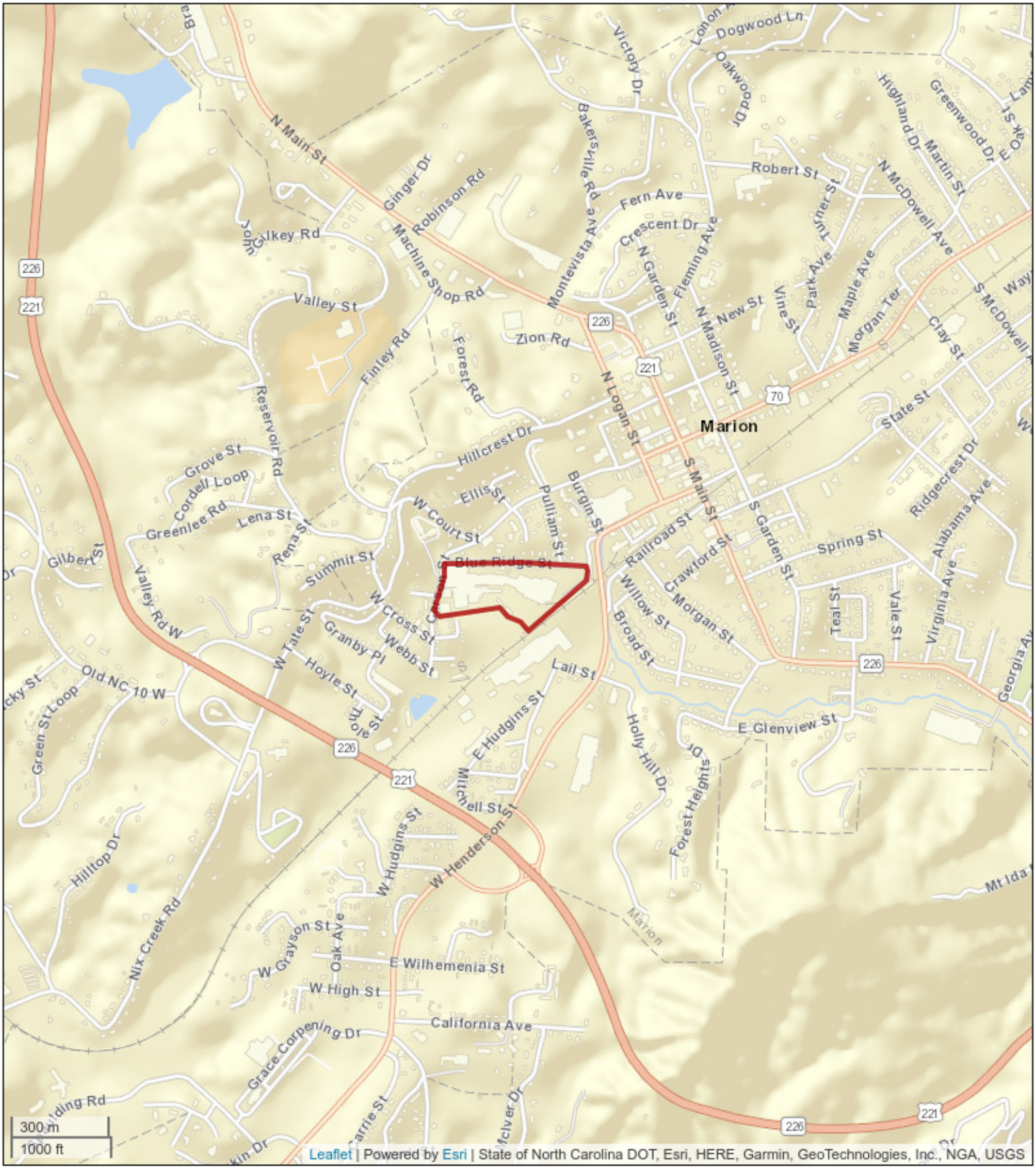


Figure 1: Site Location

Site Location Map
Former Drexel Mill Property
70 Blue Ridge Street
Marion, North Carolina 28752

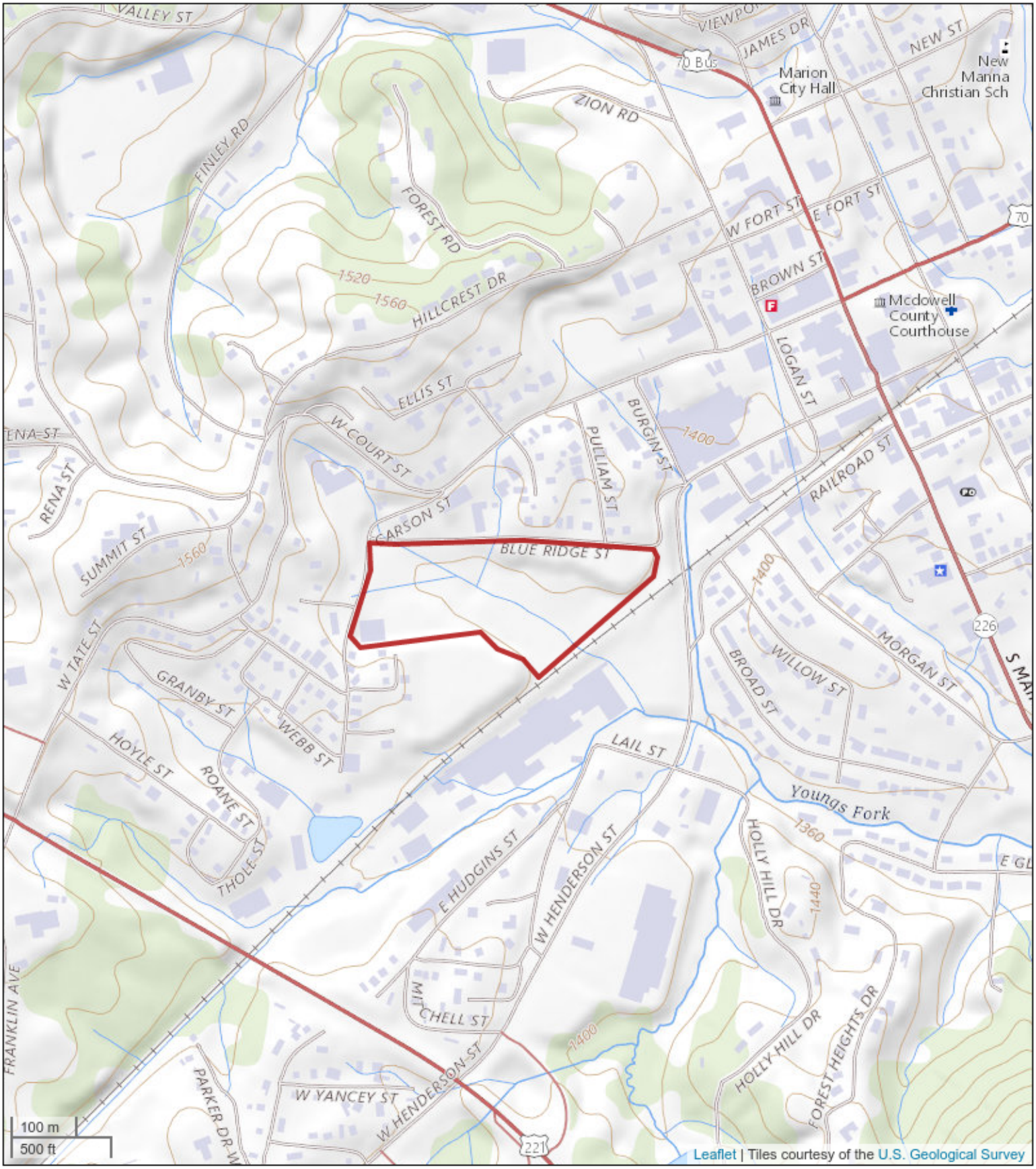


Figure 2: Topographic Map

USGS Topographic Map
Former Drexel Mill Property
70 Blue Ridge Street
Marion, North Carolina 28752

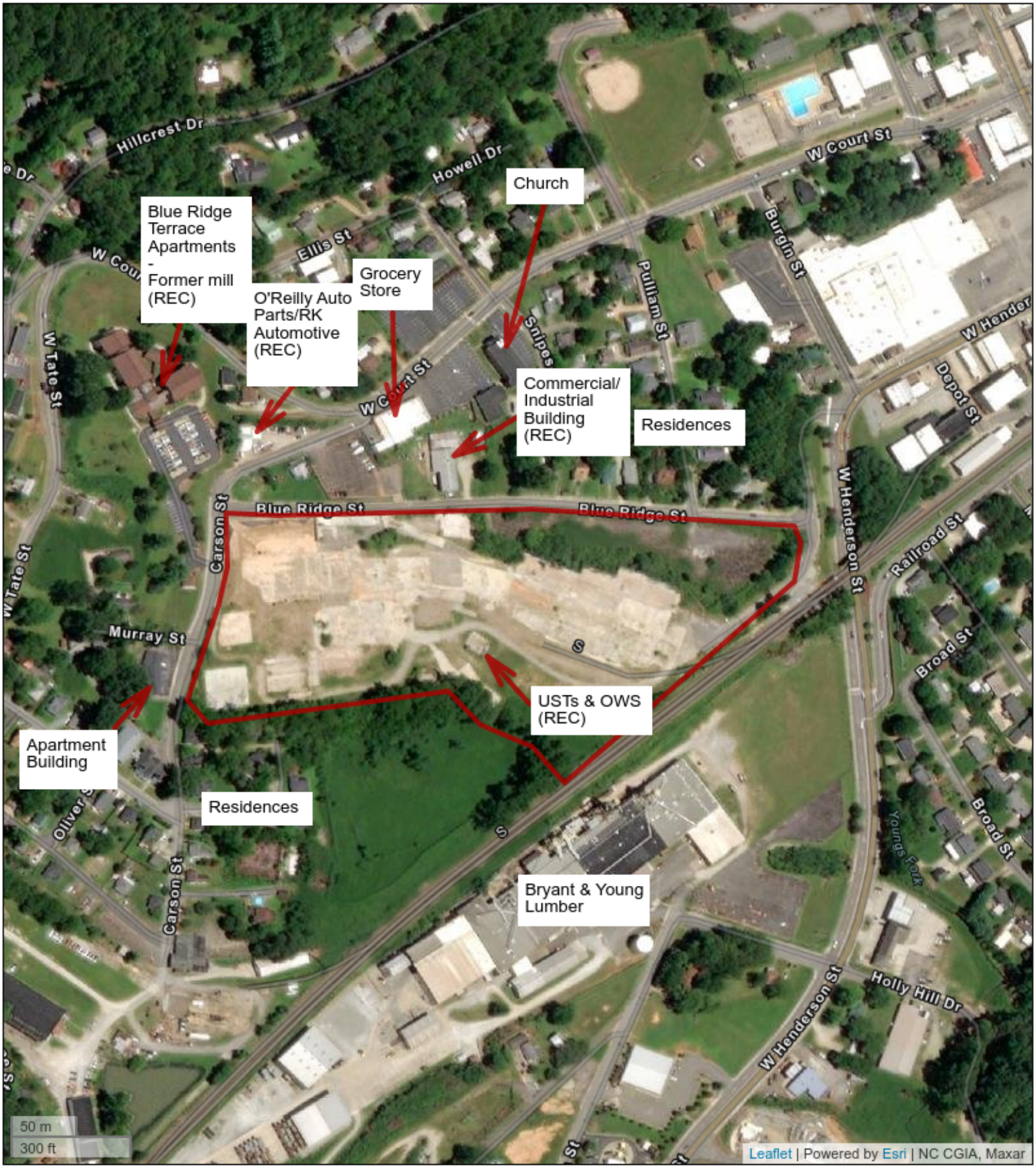


Figure 3: Site Features

Site Plan
Former Drexel Mill Property
70 Blue Ridge Street
Marion, North Carolina 28752

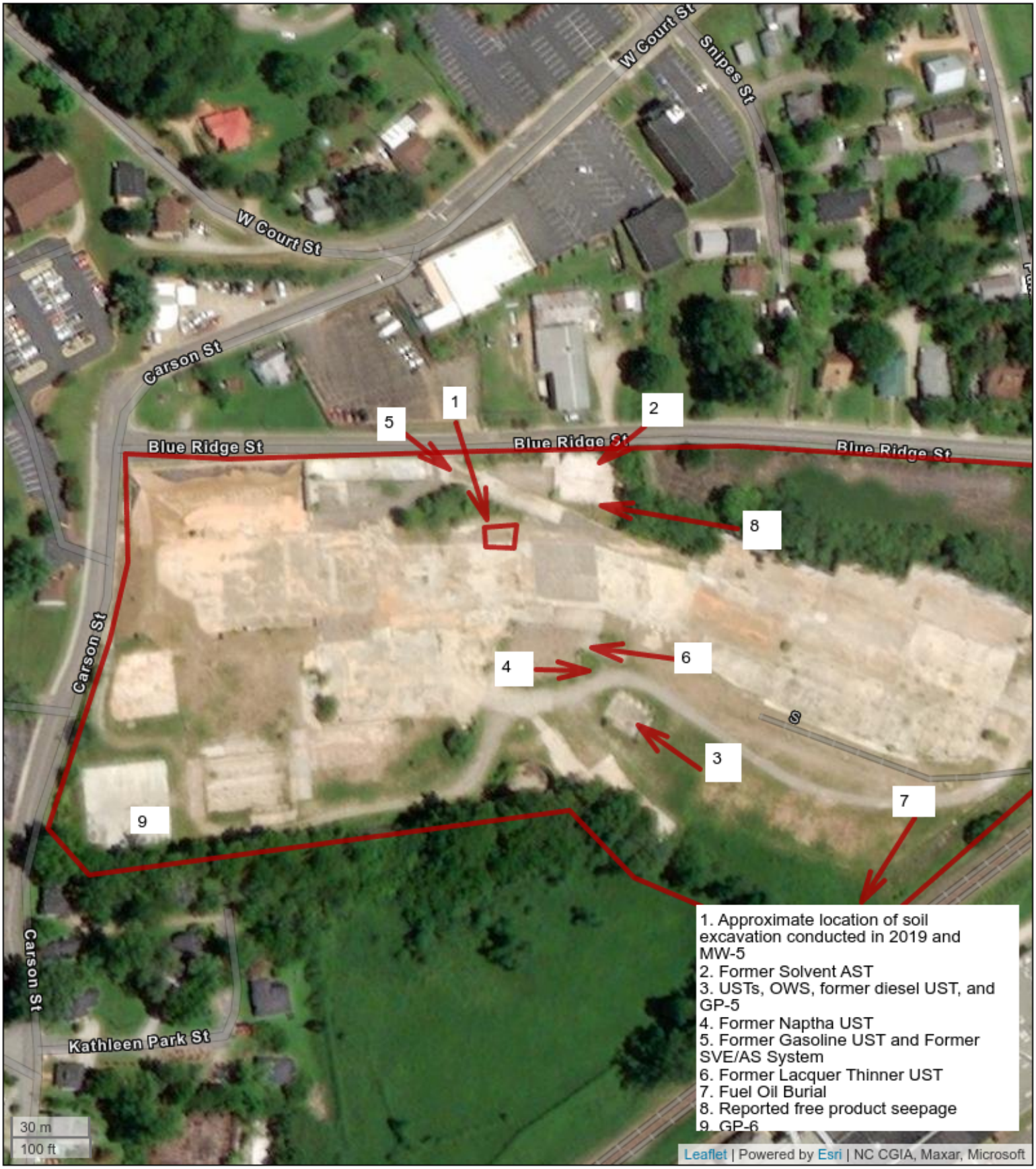


Figure 4: Areas of Identified Impacts

Site Plan
Former Drexel Mill Property
70 Blue Ridge Street
Marion, North Carolina 28752

Appendix II: Interviews, Correspondence and User Questionnaire

Environmental Questionnaire for User

Completion required for conformance with ASTM E 1527-21. Failure to provide this information may preclude CERCLA liability protections for the property purchaser. Please return answered form to ECS.

Site Name: Drexel Heritage

Name and Title of Person Completing Questionnaire (Please Print):

Heather Cotton, Planning and Development Director City of Marion

Signature of Person Completing Questionnaire:

Heather Cotton

Date: 10/27/2022

Name of Your Company and Your Contact Number (Please Print):

City of Marion 828-652-3551 hcotton@marionnc.org

ASTM E 1527-21 indicates that, "Either the user shall make known to the environmental professional the reason why the user wants to have the Phase I Environmental Site Assessment performed or, if the user does not identify the purpose of the Phase I Environmental Site Assessment, the environmental professional shall assume the purpose is to qualify for an LLP to CERCLA liability and state this in the report." As the user of this ESA, what is the reason for conducting the Phase I ESA? If this question is unanswered, ECS will assume that the user's reason for the ESA is to qualify for landowner liability protections to CERCLA liability.

Please state reason for having ESA performed: The City of Marion is taking ownership of the property and seeking EPA funding to complete environmental remediation of the site.

Will you provide Property Title Records and a Legal Description to ECS?

Please select one: **NO** [ ] **YES** [X]

Will you provide a 50-year chain of title abstract to ECS?

Please select one: **NO** [X] **YES** [ ]

Please Send Information Promptly

(1a.) Environmental liens that are filed or recorded against the site (40 CFR 312.25). ASTM E 1527-21 states that the user should perform a review of recorded land title records and judicial records for environmental liens or activity and use limitations for the site. Please forward the results of the land title record and judicial record review. If you would prefer, ECS can obtain this information from a third party provider for **an additional fee**. Please let ECS know if you would like to contract ECS for this service.

Please select one: **Client to Provide** [ ] **ECS to Provide for Additional Fee** [ ]

(1b.) **Activity and use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).** Are you aware of any activity and use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Please select one: **NO** [X] **YES** [ ]
If yes, please explain: There are no environemntal liens on the property or limitation that are in place.

(2.) **Specialized knowledge -** As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Please select one: **NO** [X] **YES** [ ]
If yes, please explain:

(3.) **Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).** Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

(a.) Do you know the past uses of the property?

Please select one: **NO** [ ] **YES** [X]
If yes, please state uses:
The past use of the property is a furniture manufacturing facility that operated from 1902 to 2004.

(b.) Do you know of specific chemicals that are present or once were present at the property?

Please select one: **NO** [ ] **YES** [X]
If yes, please explain:
Chemicals located on the property were identifed in ECS Southeast Reports project No. 49:3978

(c.) Do you know of spills or other chemical releases that have taken place at the property?

Please select one: **NO** [X] **YES** [ ]
If yes, please explain:

(d.) Do you know of any environmental cleanups that have taken place at the property?

Please select one: **NO** [ ] **YES** [X]
If yes, please explain: A partial cleanup of the property was completed between 2017 and 2019 that included the removal of approximately 3,000 tons of asbestos and lead-based paint comingled demolition material, and the disposal of drums of unknown chemicals.

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

Please select one: **NO** [ ] **YES** [X]
If no, please explain:

If you are aware that there is a difference, is the lower purchase price because contamination is known or believed to be present at the property?

Please select one: **NO** [X] **YES** [ ]
If yes, please explain:

(5.) Parcel Property Owner(s) & Contact Number(s):

A. McDowell County Government , Ashley Wooten County Manager 828-652-7121
B. City of Marion, Bob Boyette, City Manager 828-652-3551
C.
D.

Property Manager and Occupant(s) & Contact Number(s)

Property Manager: N/A
Occupant/Tenant: N/A
Occupant/Tenant: N/A

(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Please select one: **NO** [ ] **YES** [X]
If yes, please explain: 4 USTs, One Oil-Water Separator, co-mingeld asbestos and lead-based paint containing demolition material.

Interview Documentation

Contact Name:	Date:
Company Name (if applicable):	
Relationship to Property (select all that apply): ___Owner ___Key Site Manager ___Occupant ___Other:_____	Utility Providers Electricity: _____ Water: _____ Sewer: _____ Natural Gas: _____
Years of knowledge related to the Subject Property: _____	Years you/your company have owned the property: _____

1. Was the site developed or undeveloped when you purchased/acquired the property?

2. When was the site parcel(s) first developed?

3. What were the former uses of the site parcel(s)?

4. Who were former tenants of the site parcels, if any?

5. What is the current use of the site parcel(s)

6. Who are the current tenants of the site parcels, if any?

7. Who were the previous property owners? Please provide contact information if available.

Interview Part II

ASTM 1527-21 requires that interviewees be asked about the presence of the following specific environmental features:

Feature	Yes	No	Unknown	Details
Hazardous Substances and Petroleum Products in Connection with Identified Uses				
Hazardous Substance and Petroleum Product Containers Not in Connection with Identified Uses				
Drums, Totes, and Intermediate Bulk Containers				
Unidentified Substance Containers				
Underground or Aboveground Storage Tanks				
Strong, Pungent or Noxious Odors				
Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances or Petroleum Products				
Known or Suspect PCB- containing Equipment (i.e. transformers)				
Stains or Corrosion to Floors, Walls or Ceilings				
Stained Soil or Pavement				
Floor Drains and Sump Pumps				
Pits, Ponds or Lagoons				
Stressed Vegetation				
Solid Waste Mounds or Non-natural Fill Materials				
Water/Wastewater Discharge				
Groundwater Wells				
Septic Systems or Cesspools				
Elevators				
Dry cleaning				
Specialized Industrial Equipment				
Onsite Emergency Electrical Generators				
Oil-water Separators				
Hydraulic Lifts				

Are there any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	Yes	No
Are there any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the subject property?	Yes	No
Are there any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	Yes	No

Interview Part III:

Are there any of the following environmentally significant documents available:

Feature	Yes	No	Unknown	Details
Environmental Site Assessment Reports				
Site Investigation Reports				
Environmental Compliance Audit Reports				
Environmental Permits (solid waste disposal, hazardous waste disposal, wastewater, NPDES, underground injections, or air permits)				
Registrations for underground storage tanks or aboveground storage tanks				
Safety Data Sheets				
Community Right-to-know Plans				
Safety Plans				
Geologic or hydrogeologic reports				
Reports related to self-directed or other cleanup activities at the subject property				
Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the subject property				
Environmental liens encumbering the property				
Hazardous waste generator notices or reports (i.e. EPA ID Number, RCRA reporting)				
Geotechnical Studies				

If "yes" to any of the above, please provide copies of relevant reports. If copies are unavailable, please provide the approximate year the report was completed and original report format (paper copy only, digital copy only, both, etc) in the "Details" section.

CITY OF MARION 1/2 INT MCDOWELL COUNTY 1/2 INT — **Parcel ID: 1701-10-46-6003**

CARSON / BLUE RIDGE ST — PLAT: 00000/00000 UNIQ ID — SPLIT FROM ID
68279 — ID NO:

COUNTYWIDE (100), COUNTYWIDE FIRE (100), MARION CITY FIRE (100), RESCUE (100)

Reval Year: 2019 Tax Year: 2023 — DREXEL HERITAGE SITE — CARD NO. 1 of 1 — SRC=
Appraised By 27 on 01/28/2003 16700 Countywide Industrial — 15.2900 AC — TW-06 CI-C1 FR- — EX-2 — AT- — LAST ACTION 20190722

CONSTRUCTION DETAIL	
TOTAL POINT VALUE	0
BUILDING ADJUSTMENTS	
TOTAL ADJUSTMENT FACTOR	0
TOTAL QUALITY INDEX	0

MARKET VALUE								
USE	MOD	Eff. Area	QUAL	BASE RATE	RCN	EYB	AYB	
41	00							% GOOD

LIGHT MANUFACTURING
STYLE:

DEPRECIATION	
	NORM
% GOOD	

CORRELATION OF VALUE	
CREDENCE TO	MARKET
DEPR. BUILDING VALUE - CARD	0
DEPR. OB/XF VALUE - CARD	25,260
MARKET LAND VALUE - CARD	486,220
TOTAL MARKET VALUE - CARD	511,480
TOTAL APPRAISED VALUE - CARD	511,480
TOTAL APPRAISED VALUE - PARCEL	511,480
TOTAL PRESENT USE VALUE - LAND	0
TOTAL VALUE DEFERRED - PARCEL	0
TOTAL TAXABLE VALUE - PARCEL	511,480

PRIOR	
BUILDING VALUE	0
OBXF VALUE	25,260
LAND VALUE	486,220
PRESENT USE VALUE	0
DEFERRED VALUE	0
TOTAL VALUE	511,480

PERMIT			
CODE	DATE	NO.	

ROUT: WTRSHD:

SALES DATA

OFF. RECORD BOOK	OFF. RECORD PAGE	DATE MO	DATE YR	DEED TYPE	Q/U	V/I	INDICATE SALES PRICE
01250	0915	7	2018	WD	X	V	0
00959	0102	4	2008	WD	Q	V	375,000
00807	0518	12	2004	WD	Q	V	400,000
00675	0823	2	2002	GW	Q	V	0
00669	0449	12	2001	WD	Q	V	1,900,000
00265	0234	1	1977	WD	U	V	0

HEATED AREA

NOTES

NO 1 = STG/GUARD BLDG1 STORY WEST WOOD PLANT #2

SUBAREA TYPE	GS AREA	PCT	RPL CS
SUBAREA TOTALS	0		

CODE	DESCRIPTION	COUNT	LTH	WTH	UNITS	UNIT PRICE	ORIG % COND	BLDG #	SIZE FACT	AYB	EYB	DEP SCH	OVR	% COND	OB/XF DEPR. VALUE
			0	0	13,638	14.00	5.00	_	0.00	1961	1965	0		100	9547
			14	14	196	10.50	5.00	_	0.00	1900	1948	0		100	103
			0	0	15,920	14.00	5.00	_	0.00	1959	1959	0		100	11144
			0	0	4,420	6.50	5.00	_	0.00	1900	1948	0		100	1437
			0	0	20,500	1.50	5.00	_	0.00	1900	1948	0		100	1538
			12	72	864	5.00	5.00	_	0.00	1960	1960	0		100	216
			28	96	2,688	9.50	5.00	_	0.00	1960	1960	0		100	1277
TOTAL OB/XF VALUE															25262

BLDG DIMENSIONS

LAND INFORMATION

HIGHEST AND BEST USE	USE CODE	LOCAL ZONING	FRONTAGE	DEPTH	DEPTH / SIZE	LND MOD	COND FACT	OTHER ADJ/NOTES RF AC LC TO OT	ROAD TYPE	LAND UNIT PRICE	TOTAL LAND UNITS	UNIT TYPE	TOTAL ADJST	ADJUSTED UNIT PRICE	LAND VALUE	OVERRIDE VALUE	LAND NOTES
LGHT MANUF	0641		1370	0	0.9900	4	1.0700	+07 +05 +00 +00 -05	PW	30,000.00	15.290	AC	1.060	31,800.00	486222	0	
TOTAL MARKET LAND DATA											15.29				486222		
TOTAL PRESENT USE DATA																	

NORTH CAROLINA

McDOWELL COUNTY

THIS DEED, Made this 29th day of June, 1968, by and between DREXEL ENTERPRISES, INC., a Delaware corporation organized in 1927, with its principal office located at Drexel, of the County of Burke and State of North Carolina, (formerly Drexel Furniture Company), party of the first part, and DREXEL ENTERPRISES, INC., a Delaware corporation organized in 1968, with its principal office at Drexel, of the County of Burke and State of North Carolina, party of the second part, said party being a wholly-owned subsidiary of U. S. PLYWOOD-CHAMPION PAPERS INC., a New York corporation;

W I T N E S S E T H:

That the party of the first part, in consideration of securities of U. S. Plywood-Champion Papers Inc. and other good and valuable considerations, the receipt of which is hereby acknowledged, has bargained and sold, and by these presents doth grant, bargain, sell and convey unto the said party of the second part, its successors and assigns, all of the right, title and interest of the party of the first part in and to any and all real property situate, lying and being in McDowell County, North Carolina, including, without limitation, all of those certain tracts or parcels of land more particulary described as follows:

TRACT ONE:

That property known as the Blue Ridge Furniture Company property lying in the northern section of Marion in said County and State adjoining the property of the Cross Cotton Mills, The Marion Veneer & Panel Company, Mrs. J. E. Guy and others, more specifically described in a deed from J. L. Morgan to the Blue Ridge Furniture Company dated April 5, 1902 and recorded in Book 31 at Page 259 of the McDowell County Registry; and being also the property conveyed to Drexel Furniture Company by

Blue Ridge Furniture Company by deed dated August 22, 1921 and recorded in Book 59 at Page 458 of said Registry.

TRACT TWO:

BEGINNING at D. C. Buchanan's northeast corner in W. W. Guy's line and runs east (1½ variation) with W. W. Guy's line and in the line of Lots Numbers 6 and 5 in Block "D" 93 feet to a stake, J. F. Wilkerson's and J. C. Rabb's northwest corner; thence with the Wilkerson and Rabb line a southerly course 159 feet to a stake on the north edge of Hawkins Street, the same being Wilkerson's and Rabb's southwest corner; thence along the north edge of Hawkins Street 100 feet to a stake, the same being D. C. Buchanan's southeast corner; thence N. 4 E. to the BEGINNING, being the same property conveyed to Drexel Furniture Company by R. H. Pearson and wife by deed dated August 25, 1925 and recorded in Book 67 at Page 311 of the McDowell County Registry.

TRACT THREE:

All that lot or tract of land in the town of Marion, BEGINNING in the center of the main line of the Southern Railway track west of the depot in the said town at a point in the center of the spur track leading from the said main line through the property of the Marion Veneer & Panel Company to the Blue Ridge or Drexel Furniture Company, and running in a northwesterly direction with the center line of the said spur track to the south line of the Blue Ridge or Drexel Furniture Company lot, and running in a southwesterly direction with the line of the old Blue Ridge or Drexel Furniture Company's lot to the line of the Cross Cotton Mill; and thence in a southerly direction with the line of said Cross Cotton Mill property to a stake in the center of the main line of the Southern Railway; thence in an easterly direction with the said track to the BEGINNING; being a part of the property conveyed to the Drexel Furniture Company by R. S. Crisp by deed dated January 11, 1932 and recorded in Book 78 at Page 169 of the McDowell County Registry.

TRACT FOUR:

All that certain tract or parcel of land in Marion Township, McDowell County, North Carolina, BEGINNING on a large double poplar west of the branch, and on a steep bank, the same being the beginning corner of a tract of land conveyed to the Blue Ridge Furniture Company by J. L. Morgan and wife in April 1902 and running thence N. 5 E. with the Blue Ridge Furniture Company's line 57.7 feet to a stake in the branch, the same being a corner of the old Western Furniture Company's lot; thence with the said company's line a southwesterly course to a stake, the beginning corner of the old Western Furniture Company's lot at the northwest corner of

Real Estate Excise Tax 900.00 R.B. 10754 JUL 12'68 STATE OF NORTH CAROLINA 982010 MC DOWELL COUNTY

Real Estate Excise Tax 330.00 R.B. 10754 JUL 12'68 STATE OF NORTH CAROLINA 982010 MC DOWELL COUNTY

a culvert under the Southern Railroad; thence S. 60-30 W. 63.5 feet to a stake; thence N. 60-30 W, 337.5 feet to the BEGINNING, containing .39 of an acre; being more fully described in a deed from Cross Cotton Mills Company, a corporation, to the Teague Furniture Company dated the ____ day of November, 1931, and recorded in Book 78 at Page 146 of the McDowell County Registry, to which reference is hereby made for more specific description; and being a part of the property conveyed to Drexel Furniture Company by R. S. Crisp by deed dated January 11, 1932 and recorded in Book 78 at Page 169 of the McDowell County Registry.

TRACT FIVE:

A part of the land as conveyed to J. E. Neal, Trustee, on the 8th day of February, 1930, by T. O. Teague and wife, in a certain instrument recorded in the office of the Register of Deeds for McDowell County, North Carolina, in Book 34 at Pages 319-322, being on the north side of the Southern Railway Company's tracks, adjoining the lands of Teague Furniture Company, Drexel Furniture Company and Landis, and others, and being that tract of land upon which the Marion Veneer and Panel Company is located. EXCEPTING AND reserving from said tract the land upon which is located three tenement houses, and upon which the Home Mortgage Company has a deed of trust, dated August 1, 1929, from T. O. Teague and wife to the First National Bank of Durham, North Carolina, Trustee, in the sum of $5,000.00, said deed of trust recorded in the office of the Register of Deeds for McDowell County in Deed of Trust Book 40 at Page 85, to which deed of trust reference is hereby made for a detailed description of the land as herein excepted; the land conveyed hereby being the property conveyed by J. E. Neal and others to Drexel Furniture Company by deed dated January 16, 1932, and recorded in Book 78 at Page 175 of the McDowell County Registry.

TRACT SIX:

BEGINNING at an iron stake in a ditch at the bottom of the Southern Railroad fill, west of the branch at the old Teague Furniture building in the Town of Marion, North Carolina, which stake is located S. 60-30 W. 63½ feet from the northwest corner of the head wall to the culvert carrying said branch under said Southern Railroad, and runs thence N. 70½ W. 249 feet to an iron stake, which stake is located 40 feet from and in line with the south wall of said Teague Furniture Company Finishing Room building; thence N. 46½ W. 107 feet to a large forked poplar, the beginning corner of the.39 of an acre tract bought from Cross Cotton Mills Company by Drexel Furniture Company, and also being the corner of the tract bought from J. L. Morgan by the Blue Ridge Furniture Company; thence S. 60-30 E. 337½ feet with the line of the said .39 of an acre tract to the BEGINNING; being the same property conveyed to Drexel Furniture Company by Cross Cotton Mills Company

by deed dated October 1, 1936 and recorded in Book 80 at Page 530 of the McDowell County Registry.

TRACT SEVEN:

BEGINNING at an iron stake in the line of Southern Railway Company's right of way on the west side of the railroad and said stake being the northeast corner of the Cross Mill Company's property, and runs S. 68 W. 90 feet with said right-of-way line to an iron stake; thence N. 29 W. 95 feet to an iron stake, a corner of Cross Mill property, and Drexel Furniture Company's property; thence S. 68 E. 135 feet with the old line to the BEGINNING, containing one-eighth of an acre, more or less; being the same property conveyed by Cross Cotton Mills Company to Drexel Furniture Company by deed dated October 22, 1937 and recorded in Book 83 at Page 193 of the McDowell County Registry.

TRACT EIGHT:

BEGINNING at an iron stake located at a point N. 37-45 W. 50 feet from the southeast corner of the Western Furniture Factory lot, now owned by Drexel Furniture Company, and said corner being in the line of the Southern Railroad right of way and also being the southwest corner of W. E. Landis' 2-acre tract bought of J. L. Morgan, and runs thence N. 65-30 W. 34 feet and 7 inches to a stake; thence N. 37-30 W. 41 feet and 3 inches to a stake; thence N. 39-00 W. 71 feet and 7 inches to a stake; thence N. 70-30 W. 131 feet and 5 inches to an iron pipe; thence N.08-30 E. (on a line parallel with a residence now owned by C. F. James, and said line running on the east side of said residence and 25 feet from same), 129 feet to an iron pipe on the south edge of Blue Ridge Street, once known as Hawkins Street, and in the old line of the Wiseman tract; thence with the south edge of said street S. 83 E. 205 feet to an iron stake; thence S. 02-15 W. 231.5 feet to an iron stake; thence S. 31 E. 29 feet to the BEGINNING. Being all of the lands described in a deed from J. C. Connelly and wife, T. O. Teague and wife, to W. E. Landis and wife, dated July 24, 1922, and recorded in Deed Book 61 at Page 335, and a part of the lands described in a deed from J. L. Morganand wife to W. E. Landis and wife, dated January 23, 1913, and recorded in Deed Book 46 at Page 286, and being the property conveyed by W. E. Landis and wife, Maggie McQ. Landis, to Drexel Furniture Company by deed dated March 21, 1941 and recorded in Book 87 at Page 264, all of the McDowell County Registry, reference to which is hereby made for further description; together with all right of the party of the first part to use in common with W. E. Landis and wife, their heirs and assigns, as a road or driveway, all land owned by them which lies between the lawn hedge on their homeplace and the right of way of the Southern Railway Company, and west of the driveway leading from the road to the rear of the dwelling of said W. E. Landis and wife.

TRACT NINE:

BEGINNING on an iron stake at the east edge of the pavement on West Court Street, and said iron stake being located N. 38 W. 17 feet from the northwest corner of R. L. Greenlees House located just south of the herein described lot, and runs thence with the east edge of the pavement on West Court Street N. 16½ E. 50 feet to a stake; thence S. 85 E. 60 feet to an iron stake; thence S. 16½ W. 50 feet to an iron stake in Greenlees line; thence with said line N. 85 W. 60 feet to the BEGINNING; together with all right of the party of the first part in and to a right of way for a pine line over the property of J. T. Ellis and wife running in an easterly direction from the back line of the above described lot to the property belonging to the C. F. James Estate, including the right to construct said pipe line across the property of J. T. Ellis and wife and keep said pipe line in repair at all times; being the same property conveyed by J. T. Ellis and wife, Timmie Ola Ellis, to Drexel Furniture Company by deed dated June 17, 1943 and recorded in Book 91 at Page 199 of the McDowell County Registry.

TRACT TEN:

BEGINNING on an iron stake in the south margin of Blue Ridge Street, which is 137.2 feet N. 84 W. of W. E. Landis' northwest corner, and also being the northwest corner of Lot No. 2 and runs S. 9½ W. (on 30 minutes variation) with west margin of Lot No. 2, 155 feet to a stake in Drexel Furniture Company line; thence N. 65 W. with said line 70 feet to a stake in said line; thence N. 9½ E. a new line, 135 feet to a stake in the south margin of Blue Ridge Street; thence S. 84 E. with the south margin of said street 70 feet to the point of BEGINNING, this lot being a portion of the east end of the original Lot No. 3 of the T. O. Teague Property, and now being Lot No. 3 of the Francis V. Lael Property as surveyed by M. V. Snypes on November 2, 1945; and being a part of the land conveyed by Horace D. Rector and wife, Vassie J. Rector, to Drexel Furniture Company by deed dated May 27, 1946 and recorded in Book 96 at Page 556 of the McDowell County Registry.

TRACT ELEVEN:

BEGINNING at an iron stake in the south margin of Blue Ridge Street, which said stake is 207.2 feet N. 84 W. of W. E. Landis's northwest corner, and is also the northwest corner of the new Lot No. 3, said new lot being the eastern portion of the original Lot No. 3, and runs S. 9½ W. with the west margin of the original Lot No. 3, 135 feet to a stake in the Drexel Furniture Company line; thence N. 85 W. with said line 104 feet to a stake in said line; thence N. 11 E. with said line 96 feet to a stake in the south margin of Blue Ridge Street; thence S. 84 E. with the south margin of said street 108.8 feet to the point of BEGINNING, and being the west portion of the original Lot No. 3 of the T. O. Teague Property,

and now being Lot No. 4 of the Francis V. Lael Property as surveyed by M. V. Snypes on November 2, 1945; and being a part of the land conveyed by Horace D. Rector and wife, Vassie J. Rector, to Drexel Furniture Company by deed dated May 27, 1946 and recorded in Book 96 at Page 556 of the McDowell County Registry.

TRACT TWELVE:

BEGINNING at a stake in the southern margin of Blue Ridge Street, a corner of Drexel Furniture Company, formerly W. E. Landis' northwest corner, and runs S. 9 W. (on 30 minutes variation) with said Landis, now Drexel Furniture Company's line, 157 feet to a stake in the line of said Furniture Company; thence N. 89½ W. (on 30 minutes variation) with the line of said Drexel Furniture Company 80 feet to a stake in said line, a corner of Eugene Davis; thence N. 9½ E. (on 30 minutes variation) 148 feet to a stake in the southern margin of Blue Ridge Street, corner of Seagle and Davis; thence S. 84 E. with the southern margin of Blue Ridge Street 77 2/10ths feet to the BEGINNING; being the same property conveyed by a deed from Eugene Seagle and wife, Delmarie Seagle, to W. W. Wall, dated February 4, 1959, and recorded in Deed Book 150 at Page 550 in the McDowell County Registry, and being also the same property conveyed by W. W. Wall and wife, Hettie Joe Wall, to Drexel Enterprises, Inc. by deed dated February 18, 1961 and recorded in Book 161 at Page 648 of the McDowell County Registry.

TRACT THIRTEEN:

BEGINNING on an iron stake in the south margin of Blue Ridge Street, which stake is located N. 84 W. 67.2 feet from the northwest corner of W. E. Landis, it also being the northwest corner of Lot No. 1, and runs S. 9½ W. (30 minutes variation) with west margin of said Lot No. 1, 160 feet to a stake in Drexel Furniture Company line; thence N. 82½ W. (30 minutes variation) with said Drexel Furniture Company line 70 feet to a stake in said line; thence N. 9½ E. (30 minutes variation) 155 feet to a stake in the south margin of Blue Ridge Street; thence S. 84 E. with the south margin of said Street 70 feet to the point of BEGINNING, being Lot No. 2 of the Francis V. Lael land according to the survey made November 2, 1945 by M. V. Snypes; and being the same property conveyed by deed from Elmer Eugene Davis to Mildred B. Gibbs Davis dated September 4, 1958 and recorded in Deed Book 149 at Page 3 of the McDowell County Registry, and the same property conveyed by Mildred B. Gibbs Davis to Drexel Enterprises, Inc. by deed dated September 30, 1964 and recorded in Book 180 at Page 439 of the McDowell County Registry.

TRACT FOURTEEN:

BEGINNING at the point where the centerline of Blue Ridge Street intersects with the western margin of

Henderson Street, and runs thence from said beginning point S. 21 W. along and with the western margin of Henderson Street, 138 feet to an iron pin in said margin of said Street, and in the right of way of the Southern Railway Company; thence S. 55 W. along and with the right-of-way line of Southern Railway Company 267 feet to an iron pin in the line of Drexel Furniture Company; thence N. 37-45 W. with the Drexel Furniture Company line 50 feet to an iron pin; thence N. 31 W. with said line 29 feet to an iron pin; thence N.02-15 E. with Drexel Furniture Company's line 251½ feet to a point in the centerline of Blue Ridge Street; thence S. 84-30 E. along and with the centerline of Blue Ridge Street 310 feet to the BEGINNING, the above described property is conveyed subject to easement of Town of Marion for Blue Ridge Street; and being the same property conveyed by Clinton B. Landis and wife, Belle L. Landis to Drexel Enterprises, Inc. by deed dated October 5, 1964 and recorded in Book 180 at Page 397 of the McDowell County Registry.

TO HAVE AND TO HOLD, the aforesaid real property, including, without limitation, the tracts or parcels of land hereinabove described, and all privileges and appurtenances thereto belonging, to the said party of the second part, its successors and assigns, to its and their only use and behoof forever.

IN WITNESS WHEREOF, the said part of the first part has caused these presents to be signed in its name by its President, and its corporate seal to be hereto affixed and attested by its Secretary the day and year first above written, all in pursuance of authority duly given by resolution of the Board of Directors of the party of the first part.

ATTEST: DREXEL ENTERPRISES, INC.

Donald E. Smith Asst Secretary By G. Maurice Hill, President

(Corporate Seal)

NORTH CAROLINA

BURKE COUNTY

This 2nd day of July, A.D. 1968, personally came before me, Mary R Bumgarner, a Notary Public for said County and State, G. MAURICE HILL, who, being by me duly sworn, says that he is the President of DREXEL ENTERPRISES, INC., and that the seal affixed to the foregoing instrument in writing is the corporate seal of the Company, and that said writing was signed and sealed by him, in behalf of said Corporation, by its authority duly given. And the said G. MAURICE HILL acknowledged the said writing to be the act and deed of said Corporation.

WITNESS my hand and notarial seal.

Mary R. Bumgarner
Notary Public

(Notarial Seal)

My commission expires: Feb. 25 1970

STATE OF NORTH CAROLINA
MCDOWELL COUNTY

The foregoing certificate of Mary R. Bumgarner, a Notary Public of Burke County, State of North Carolina is certified to be correct.

Witness my hand and official seal, this 12th day of July, AD. 1968.

Evelyn Byrd
DEPUTY REGISTER OF DEEDS

Filed for registration on the 12th day of July, 1968 at 1:00 P. M., and duly recorded.

BY Evelyn Byrd DEPUTY

Ruth Lackey Lambeth
REGISTER OF DEEDS - MCDOWELL COUNTY

DEED

THIS DEED made this 9th day of August, 1977 by and between CHAMPION INTERNATIONAL CORPORATION ("Grantor") formerly known as U.S. Plywood-Champion Papers Inc., successor by merger to Drexel Enterprises, Inc., a Delaware corporation organized in 1968 and DREXEL HERITAGE FURNISHINGS INC., ("Grantee").

W I T N E S S E T H :

That the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in Mc Dowell County, North Carolina and more particularly described in Exhibit "A" hereto together with all easements and appurtenances thereto.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that for a period of one (1) year from the date of this instrument, Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the exceptions contained in the Title Policy issued by Chicago Title Insurance Company to the Grantee, which insures this conveyance.

2.5 23C

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns.

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal and has caused this instrument to be signed in its corporate name by its duly authorized officer and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

ATTEST:

S. B. Brown
Assistant Secretary

CHAMPION INTERNATIONAL CORPORATION

By: A. L. Cole
Senior Vice President

CONNECTICUT, COUNTY OF FAIRFIELD

I, Lorraine Farrell, a Notary Public of the County and State aforesaid, certify that Stephen B. Brown, personally came before me this day and acknowledged that he is Assistant Secretary of Champion International Corporation a New York corporation, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its Vice President, sealed with its corporate seal and attested by him as its Assistant Secretary.

Witness my hand and official stamp or seal, this 9th day of August 1977.

My commission expires:

Lorraine Farrell
Notary Public

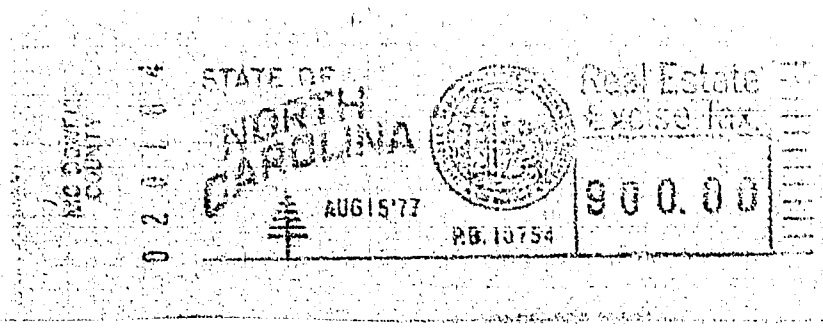
LORRAINE FARRELL
NOTARY PUBLIC
My Commission Expires March 31, 1980

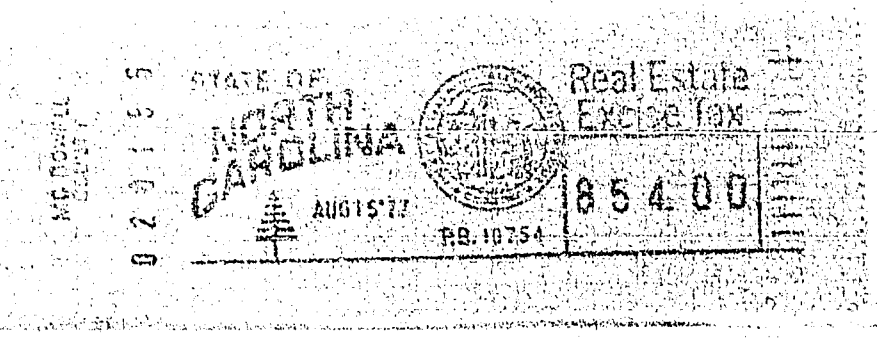
Parcel No. 16: Lying in the Town of Marion, Marion Township, McDowell County, North Carolina, and being more particularly described as follows:

BEGINNING on a point in the centerline of Blue Ridge Street at the intersection of Pulliam Street and runs thence with the centerline of Blue Ridge Street S 84° 29′ 30″ E, 310.00 feet to a steel nail in the intersection in the centerline of Blue Ridge Street at the intersection of the West right-of-way line of West Henderson Street; and runs thence S 21° 14′ 30″ W, 118.56 feet to an iron pipe in the right-of-way line of Southern Railway; thence S 54° 15′ 40″ W, 267.00 feet with the right-of-way line of the Southern Railway to an iron pipe; thence S 35° 44′ 20″ E, 50.00 feet to an iron pipe; thence S 54° 15′ 40″ W, 62.04 feet to a point in the centerline of a spur railroad track leading to Plant No. 2; thence with the centerline of the spur track eight courses and distances, N 74° 08′ 10″ E, 32.42 feet; N 70° 18′ 50″ E, 44.50 feet; N 63° 22′ 50″ E, 46.69 feet; N 58° 53′ 50″ E, 46.13 feet; N 56° 28′ 30″ E, 39.91 feet; N 57° 43′ 50 ″ E, 79.24 feet; N 59° 09′ 10″ E, 44.20 feet; N 57° 43′ 50″ East, 79.24 teet to a point in the centerline of the main line track; thence with the centerline of the main line track S 54° 15′ 40″ W, 840.18 feet to a point in the centerline of the main line track; thence leaving the main line track and following the Marion City limits, five courses and distances, N 43° 39′ 30″ W, 101.42 feet to a concrete right-of-way monument in the Northern right-of-way line of Southern Railway; thence the same courses N 43° 39′ 30″ W, 58.78 feet to an iron pipe; thence N 73° 38′ W, 100.71 feet to an iron pipe; thence N 44° 51′ 50″ W, 137.25 feet to a concrete monument; thence S 83° 31′ 30″ W, 591.39 feet to an iron pipe; thence leaving the Marion City limits line and runs N 47° 53′ 15″ W, 77.91 feet to an iron pipe on the East side of Carson Street; thence with the East margin of Carson Street three courses and distances N 17° 06′ 45″ E, 183.00 feet to an iron pipe; N 17° 13′ 15″ E, 130.00 feet to a steel nail, N 09° 36′ 45″ E, 175.00 feet to a steel nail in the pavement at the intersection of Carson Street and Blue Ridge Street; thence S 88° 26′ 30″ E, 241.47 feet to a steel nail set at the back of the curb on the South side of Blue Ridge Street; thence with the back of the curb on the South side of Blue Ridge Street, twelve courses and distances, S 88° 16′ 20″ E, 100.00 feet; S 89° 00′ 20″ E, 67.31 feet; N 88° 37′ 20″ E, 200.00 feet; N 89° 03′ 40″ E, 61.33 feet; S 87° 44′ 40″ E, 50.00 feet; N 89° 03′ 40″ E, 53.93 feet; S 87° 44′ 40″ E, 50.00 feet; S 86° 38′ 05″ E, 50.00 feet; S 84° 33′ 25″ E, 100.00 feet; S 84° 17′ E, 100.00 feet; S 84° 01′ 40″ E, 100.00 feet; S 84° 03′ 20″ E, 54.04 feet to a steel nail; thence leaving the back of the curb on the South side of Blue Ridge Street and runs thence N 01° 01′ 20″ E, 12.98 feet to a point in the centerline of Blue Ridge Street at an intersection of Pulliam Street the point of beginning, containing 15.94 acres.

Deed reference: Book 199—Page 638

Together with all tenements, hereditaments, easements and appurtenances belonging or in any wise appertaining thereto.





NORTH CAROLINA
McDOWELL COUNTY

The foregoing certificate(s) of Lorraine Farrell

Notary(~~ies~~) Public

is/~~are~~ certified to be correct.

Filed for registration at 2:12 P.M. this 15th day of August, 1977.

By: _____
Deputy-Assistant

Ruth L. Lambeth
Register of Deeds

2010002069
MCDOWELL CO, NC FEE $34.00
PRESENTED & RECORDED:
05-11-2010 01:59:49 PM
JANE B MCGEE
REGISTER OF DEEDS
BY: TONIA R HAMPTON
DEPUTY REGISTER OF DEEDS
BK: CRP 1019
PG: 455-460

NORTH CAROLINA GENERAL WARRANTY DEED

Excise Tax: $ 0.00

Parcel Identifier No. 0642C003003 Verified by _____ County on the ____ day of _____, 20__
By: _____

Mail/Box to: Grantee

This instrument was prepared by: John C. MacNeill, Jr., 6743-A Fairview Road, Charlotte, NC 28210

Brief description for the Index: 70 Blue Ridge Street, Marion, NC

THIS DEED made this 29th day of April, 2010, by and between

GRANTOR	GRANTEE
FRED D. GODLEY and wife, KATHRYN B. GODLEY P.O. Box 1140 Cornelius, NC 28031	MARION PROPERTY, LLC P.O. Box 1140 Cornelius, NC 28031

APPROVED BY CRA WATERSHED ADMINISTRATOR

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of _____, _____ Township, McDowell County, North Carolina and more particularly described as follows:

SEE EXHIBIT A ATTACHED HERETO FOR DESCRIPTION OF PROPERTY.

Kathryn B. Godley joins in the execution of this deed, but not its warranties, for the purpose of conveying to Grantee any marital interest she may have under NC law.

All of the property herein conveyed does not incude the primary residence of Grantors.

The property hereinabove described was acquired by Grantor by instrument recorded in Book 959 page 102.

A map showing the above described property is recorded in Plat Book _____ page _____.

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Printed by Agreement with the NC Bar Association – 1981 SoftPro Corporation, 333 E. Six Forks Rd., Raleigh, NC 27609

GFG 5/11/10
APPROVED TO RECORD
TAX DEPARTMENT

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever, other than the following exceptions:

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

_____ (SEAL)
(Entity Name) FRED D. GODLEY

By:_____ _____ (SEAL)
Title:_____ KATHRYN B. GODLEY

By:_____ _____ (SEAL)
Title:_____

By:_____ _____ (SEAL)
Title:_____

State of North Carolina - County of Mecklenburg

I, the undersigned Notary Public of the County and State aforesaid, certify that FRED D. GODLEY and KATHRYN B. GODLEY personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed. Witness my hand and Notarial stamp or seal this 29th day of April, 2010

My Commission Expires: 9/1/10

_____
Notary Public

JOHN C. MACNEILL, JR. NOTARY PUBLIC MECKLENBURG COUNTY, N. C.

State of North Carolina - County of _____

I, the undersigned Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledged that _he is the _____ of _____, a North Carolina or _____ corporation/limited liability company/general partnership/limited partnership (strike through the inapplicable), and that by authority duly given and as the act of such entity, __he signed the foregoing instrument in its name on its behalf as its act and deed. Witness my hand and Notarial stamp or seal, this _____ day of _____, 20__.

My Commission Expires:_____

_____
Notary Public

State of North Carolina - County of _____

I, the undersigned Notary Public of the County and State aforesaid, certify that _____

Witness my hand and Notarial stamp or seal, this _____ day of _____, 20__.

My Commission Expires:_____

_____
Notary Public

The foregoing Certificate(s) of _____ is/are certified to be correct. This instrument and this certificate are duly registered at the date and time and in the Book and Page shown on the first page hereof.

_____ Register of Deeds for _____ County

By:_____ Deputy/Assistant - Register of Deeds

NC Bar Association Form No. L-3 © 1976, Revised © 1977, 2002
Printed by Agreement with the NC Bar Association – 1981 SoftPro Corporation, 333 E. Six Forks Rd., Raleigh, NC 27609

CRP 1019 457

Property Address:
361 Blue Ridge Street
Marion, North Carolina 28752

EXHIBIT A

LEGAL DESCRIPTION

TRACT 1: LEGAL DESCRIPTION OF A 15.93 ACRE TRACT OF LAND LOCATED IN MARION TOWNSHIP McDOWELL COUNTY, NORTH CAROLINA AND BEING THAT CERTAIN TRACT OF LAND HERETOFORE BELONGING TO DREXEL HERITAGE FURNISHINGS, INC., PLANT #2 AS RECORDED IN DEED BOOK 265, PAGE 234 OF THE McDOWELL COUNTY REGISTER OF DEEDS AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING on a cotton gin spike set in the centerline of Blue Ridge Street in place of the 2nd corner of Deed Book 265, Page 234 whose NAD '83 coordinates are Northing = 218,315.865 meters Easting = 337,007.188 meters with a Combine Scale Factor of 0.9998397 and being located North 64 degrees 03 minutes 12 seconds West a distance of 1,918.88 feet from a North Carolina Geodetic Survey Monument "Main" whose NAD '83 coordinates are Northing = 218,059.962 meters Easting = 337,533.111 meters with a Combined Scale Factor of 0.9998404 and runs,

THENCE leaving the centerline of Blue Ridge Street South 21 degrees 14 minutes 14 seconds West a distance of 118.56 feet to a cotton gin spike set in the right-of-way line of Southern Railway,

THENCE running with the right-of-way line of Southern Railway, South 54 degrees 15 minutes 24 seconds West for a distance of 267.00 feet to a cotton gin spike set in the right-of-way line of Southern Railway,

THENCE leaving the right-of-way line of Southern Railway South 35 degrees 44 minutes 36 seconds East for a distance of 50.00 feet to a cotton gin spike set,

THENCE South 54 degrees 15 minutes 24 seconds West for a distance of 62.04 feet to a 1 inch iron pipe set,

THENCE North 74 degrees 07 minutes 54 seconds East for a distance of 32.42 feet to a 1 inch iron pipe set in the centerline of the railroad tracks,

THENCE continuing with the centerline of the railroad tracks the following Bearings and distances:

North 70 degrees 18 minutes 34 seconds East for a distance of 44.50 feet to a 1 inch iron pipe set,
North 63 degrees 22 minutes 34 seconds East for a distance of 46.69 feet to a 1 inch iron pipe set,
North 58 degrees 53 minutes 34 seconds East for a distance of 46.13 feet to a 1 inch iron pipe set,
North 56 degrees 28 minutes 14 seconds East for a distance of 39.91 feet to a 1 inch iron pipe set,

North 57 degrees 43 minutes 34 seconds East for a distance of 79.24 feet to a 1 inch iron pipe set, North 59 degrees 08 minutes 54 seconds East for a distance of 44.20 feet to a cotton gin spike set, North 57 degrees 43 minutes 34 seconds East for a distance of 79.24 feet to a 1 inch iron pipe set the 14th corner of Deed Book 265, Page 234, South 54 degrees 13 minutes 10 seconds West for a distance of 840.26 feet to a 1 inch iron pipe set,

THENCE leaving the centerline of the Southern Railway Tracks North 43 degrees 39 minutes 46 seconds West for a distance of 101.33 feet to an existing concrete monument the 16th corner of Deed Book 265, Page 234 and the 4th corner of Deed Book 421, Page 396-402,

THENCE continuing North 43 degrees 39 minutes 46 seconds West for a distance of 58.78 feet to an existing 1 inch iron pipe,

THENCE running with the common boundary line of the Richard M. H. Stock property (Deed Book 421, pages 396-402) the following courses and distances: North 73 degrees 38 minute 16 seconds West for a distance of 100.71 feet to an existing 3/4 inch iron pipe, North 44 degrees 52 minutes 06 seconds West for a distance of 137.25 feet to an existing concrete monument the 19th corner of Deed Book 265, Page 234, the Beginning corner of Deed Book 421, Pages 396-402, South 83 degrees 31 minutes 14 seconds West for distance of 591.39 feet to an existing 1 1/4 inch iron pipe the 20th corner of Deed Book 265, Page 234, North 47 degrees 53 minutes 31 seconds West for a distance of 77.91 feet to a 1 inch iron pipe set in place of the 21st corner of Deed Book 265, Page 234,

THENCE running with the Northeast edge of Carson Street North 17 degrees 06 minutes 29 seconds East for 183.00 feet to a 1 inch iron pipe set,

THENCE continuing with the Northeast edge of Carson Street North 17 degrees 12 minutes 59 seconds East for a distance of 130.00 feet to a cotton gin spike set in the edge of Carson Street,

THENCE continuing with the Northeast edge of Carson Street North 09 degrees 36 minutes 29 seconds East for a distance of 175.00 feet to a cotton gin spike set in the edge of Carson Street and Blue Ridge Street in place of the 24th corner of Deed Book 265, Page 234,

THENCE leaving Carson Street and running with the Southeast edge of Blue Ridge Street the following courses and distances: South 88 degrees 26 minutes 46 seconds East for a distance of 241.47 feet to a 1 inch iron pipe set,

THENCE South 88 degrees 16 minutes 36 seconds East for a distance of 100.00 feet to a 1 inch iron pipe set,

THENCE South 89 degrees 00 minutes 36 seconds East for a distance of 67.31 feet to a mason nail set in the edge of Blue Ridge Street,

THENCE North 88 degrees 37 minutes 04 seconds East for a distance of 200.00 feet to a mason nail set in the edge of Blue Ridge Street,

THENCE North 89 degrees 03 minutes 24 seconds East for a distance of 61.33 feet to a 1 inch iron pipe set,

THENCE South 87 degrees 44 minutes 56 seconds East for a distance of 50.00 feet to a 1 inch iron pipe set,

THENCE South 86 degrees 38 minutes 21 seconds East for a distance of 50.00 feet to a 1 inch iron pipe set,

THENCE South 84 degrees 33 minutes 41 seconds East for a distance of 100.00 feet to a iron iron pipe set,

THENCE South 84 degrees 17 minutes 16 seconds East for a distance of 100.00 feet to a 1 inch iron pipe set,

THENCE South 84 degrees 01 minutes 56 seconds East a distance of 100.00 feet to a 1 inch iron pipe set,

THENCE South 84 degrees 03 minutes 36 seconds East for a distance of 54.04 feet to a 1 inch iron pipe set,

THENCE North 01 degrees 01 minutes 04 seconds East for a distance of 12.98 feet to a cotton gin spike set in the centerline of Blue Ridge Street in place of the beginning corner of Deed Book 265, Page 234,

THENCE South 84 degrees 29 minutes 46 seconds East for a distance of 310.00 feet to the **POINT OF BEGINNING** Containing 15.93 acres and being shown on a unrecorded plat by Suttles Surveying, P.A. Dated 28 November 1995 Map file number 12068

CRP 1019 460

TRACT 2: LEGAL DESCRIPTION OF A 0.63 ACRE TRACT OF LAND LOCATED IN MARION TOWNSHIP, McDOWELL COUNTY, NORTH CAROLINA AND BEING THAT CERTAIN TRACT OF LAND DESCRIBED IN A DEED TO DREXEL HERITAGE FURNISHINGS, INC. RECORDED IN DEED BOOK 280, PAGE 279 OF THE McDOWELL COUNTY REGISTRY AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING on an X chisled in top of a retaining wall in place of the 5th corner of Deed Book 280, page 279 and the 5th corner of Deed Book 303, Page 603 and being further located North 84 degrees 47 minutes 33 seconds East for a distance of 253.13 feet from a cotton gin spike set in the edge of Blue Ridge Street and Carson Street and being the Northwest corner of Deed Book 265, Page 234.

THENCE running with the common boundary line of the Alna C. Radar property (Deed Book 303, Page 603) North 28 degrees 20 minutes 35 seconds West for a distance of 136.24 feet to a mason nail set,

THENCE North 69 degrees 58 minutes 30 seconds East for a distance of 66.05 feet to an X chisled in the concrete sidewalk,

THENCE North 67 degrees 03 minutes 32 seconds East for a distance of 86.07 feet to an X chisled in the concrete sidewalk,

THENCE running with the common boundary line of the West Court Food Center property (Deed Book 263, Page 546 Tracts One and Two), South 29 degrees 15 minutes 00 seconds East for a distance of 140.00 feet to a cotton gin spike set in place of the 2nd corner of Deed Book 280, Page 279,

THENCE continuing with the boundary line of West Court Food Center property, North 55 degrees 29 minutes 45 seconds East for a distance of 50.00 feet to a 1 inch iron pipe set in place of the 3rd corner of Deed Book 280, Page 279,

THENCE running with the common boundary line of the Willwear Hosiery Manufacturing Co., Inc. Property (Deed Book 450, Page 923 Tracts One and Two), South 04 degrees 25 minutes 35 seconds East for a distance of 80.00 feet to a 1 inch pipe set, on the north margin of Blue Ridge Street

THENCE with the northern margin of said street South 89 degrees 15 minutes 35 seconds West for a distance of 192.44 feet to the POINT OF BEGINNING.

Containing 0.63 acres and being shown on a unrecorded plat by Suttles Surveying, P.A. Dated November 28, 1995, Map File No. 12068

JANE B MCGEE
Register of Deeds

Mcdowell County
Register of Deeds

21 South Main Street, Suite A • Marion, NORTH CAROLINA 28752
Telephone 828-652-4727 • Fax 828-652-1537 • E-Mail jmcgeemcdowell@titlesearcher.com

****

Filed For Registration: 05/11/2010 01:59:49 PM

Book: CRP 1019 Page: 455-460

Document No.: 2010002069

DEED 6 PGS 34.00

Recorder: TONIA R HAMPTON

****

State of North Carolina, County of McDowell

Filed for registration and Duly Recorded this 11TH day of MAY 2010.

JANE B MCGEE, REGISTER OF DEEDS

By: Tonia R Hampton
DEPUTY REGISTER OF DEEDS

****

DO NOT REMOVE!

This certification sheet is a vital part of your recorded document. Please retain with original document and submit when re-recording.

2018003451
MCDOWELL CO, NC FEE $26.00
NO TAXABLE CONSIDERATION
PRESENTED & RECORDED:
07-31-2018 02:37:14 PM
TONIA R HAMPTON
REGISTER OF DEEDS
BY: TONIA R HAMPTON
REGISTER OF DEEDS
BK: CRP 1250
PG: 915-923

NORTH CAROLINA GENERAL WARRANTY DEED

Excise Tax: -0-

Parcel Identifier No.1701.10-46-6003
Verified by McDowell County Tax Office:
Jennifer Jackson

Mail Box to: City of Marion, PO Drawer 700, Marion, NC, 28752

This instrument was prepared by Jennifer O. Jackson, a licensed North Carolina attorney having an office at 46 Sulphur Springs Rd, Asheville, NC, 28806. Delinquent taxes are to be paid by the closing attorney to the county tax collector upon disbursement of closing proceeds.

Brief description for the Index: +/-15.93 acres Blue Ridge Street

THIS DEED made this 31st day of July, 2018, by and between

GRANTOR	GRANTEE
MARION PROPERTY, LLC P.O. Box 1140 Cornelius, NC 28031	**CITY OF MARION, a one-half (1/2) undivided interest as tenant in common** P.O. Drawer 700 Marion, NC 28752 **McDOWELL COUNTY, a one-half (1/2) undivided interest as tenant in common** 60 East Court Street Marion, NC 28752

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the **City of Marion, McDowell County**, North Carolina and more particularly described as follows:

BEING all of that +/-15.93 acre tract of land conveyed as Tract 1 in that deed to Marion Property, LLC, recorded in Book 1019 at Page 455, reference to which is hereby made and incorporated herein by reference for a more particular description by metes and bounds.

McDowell County Parcel Identification Number(s): 1701-10-46-6003

All or a portion of the property herein conveyed ☐ includes or ☒ does not include the primary residence of a Grantor.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor

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Printed by Agreement with the NC Bar Association

will warrant and defend the title against the lawful claims of all persons whomsoever, other than the following exceptions: (1) all outstanding *ad valorem* taxes which the Grantee agrees to pay when due, (2) the rights-of-way of Blue Ridge Street and Carson Street to their full legal widths, (3) the railroad right-of-way to its full legal width.

This deed is executed by Grantor pursuant to a Donation Agreement, a copy of which is attached hereto as Exhibit A, undertaken as part of the winding up process of Marion Property, LLC.

Grantee accepts title to this property with the understanding that this property is subject to and entitled to the protections of the Brownsfield Property Reuse Act of 1997.

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

MARION PROPERTY, LLC

By: Fred D. Godley

Print/Type Name & Title: **FRED D. GODLEY, Manager**

State of North Carolina - County of McDowell

I, the undersigned Notary Public of the County and State aforesaid, certify that **FRED D. GODLEY** personally came before me this day and acknowledged that he is the manager of **MARION PROPERTY, LLC**, a North Carolina limited liability company, and that by authority duly given and as the act of such entity, he signed the foregoing instrument in its name on its behalf as its act and deed. Witness my hand and Notarial stamp or seal, this 31 day of July, 2018.

My Commission Expires: 6-30-2023

(Affix Seal)

DEBRA W. SHERLIN
Notary Public
McDowell County
My Commission Expires 6-30-2023
NORTH CAROLINA

Debra W. Sherlin
Notary Public

Debra W. Sherlin
Notary's Printed or Typed Name

EXHIBIT A

REAL PROPERTY DONATION AGREEMENT

THIS REAL PROPERTY DONATION AGREEMENT ("Agreement") is entered into this 17th day of July, 2018, by and between Marion Property, LLC (the "Donor") and the City of Marion, North Carolina (the "City") and McDowell County, North Carolina (the "County") (collectively sometimes referred to as "Donee"). The parties to this Agreement may be referred to herein collectively as "Parties" or individually as "Party."

RECITALS

A. The contact information of the Parties to this Agreement are as follows:

Donee:	Donor:
City of Marion c/o Bob Boyette, City Manager P.O. Drawer 700 194 North Main Street Marion, NC, 28752 Phone: (828) 652-3551 McDowell County c/o Ashley Wooten, County Manager 60 East Court Street Marion, NC 28752 Phone: (828) 652-7121	Marion Property, LLC c/o Fred D. Godley P.O. Box 1140 Cornelius, NC 28031 Phone: (704) 577-8784

B. Donor is the sole owner of certain real property located at 70 Blue Ridge Street, Marion, NC, 28752, Tax Parcel Identification Number 1701-10-46-6003, and more particularly described as Tract I in Book 1019 at Page 455 of the McDowell County Registry, and includes the real property, warehouse, the fixtures, the equipment and any and all other personal property located thereon (the "Property").

Donor has the right to remove the warehouse, and any fixtures, equipment or personal property from the Property up to 60 days after the full execution and recording of this Agreement as long as the removal will not disturb the monitoring wells that are installed on the Property. If the Property has been transferred at the time of removal, Donor must notify the City in advance of such work. Donor's authority to enter the Property and remove such items expires at the end of such 60-day period.

C. The City is a municipality under the laws of the State of North Carolina and is exempt from federal income taxation and eligible to receive contributions of property, the value of which is deductible to the Donor under Section 170 of the Internal Revenue Code.

D. The County is a political subdivision of the State of North Carolina and is exempt from federal income taxation and eligible to receive contributions of property, the value of which is deductible to the Donor under Section 170 of the Internal Revenue Code.

E. Donor intends that the fair market value of the Property reduced by the encumbrances shall be a contribution jointly to the City and the County. Donor understands and acknowledges that neither the City nor the County makes any representation as to the tax consequences of the transaction contemplated by this Agreement. Donor will obtain independent tax counsel and be responsible for compliance with the gift value substantiation requirements of the Internal Revenue Code.

NOW THEREFORE, the Parties agree as follows:

1. **Donation of Property**. Donor agrees to gift to the City and the County the Property by donation on the terms and conditions set forth in this Agreement. Neither the City nor the County shall be obligated to accept title to the Property if their respective City Council and Board of County Commissioners fail to approve this transaction or if the City and County, or either of them, do not approve the title or condition of the Property, or if any of the contingencies in paragraph 25 of this Agreement are not met.
2. **Irrevocability**. Donor understands that the gift being made under this Agreement is irrevocable and that the City and County can hold the Property for any purpose or resell the Property after closing and apply the proceeds to support its public purposes or for any other lawful purpose.
3. **Charitable Deduction**. It is understood that Donor intends to claim the value of the Property as a noncash charitable contribution for tax purposes. The City and County will sign an acknowledgement section of IRS Form 8283 completed by Donor. In the event the City and/or County sell the Property, or any portion thereof, within three years of the donation, then the City and/or County shall be responsible for completing and filing IRS Form 8282 and will send a copy of that form to Donor. Donor shall be solely responsible for any audits, costs, or liabilities that may arise from the charitable deduction claimed by Donor in this transaction and shall hold the City and the County harmless for any and all claims related to the same. Donor shall seek its own legal and/or tax counsel of the gift contemplated in this Agreement and has not relied on any representation from the City related to the gift provided in this Agreement. Neither the City nor the County make any representation regarding the fair market value of the Property or any tax related consequences of the transaction contemplated in this Agreement.
4. **Closing**. Donor represents that there are not outstanding deeds of trust or other encumbrances on the Property other than back taxes owed to the City and to the County in the approximate amounts shown below. City and County agree to take the Property subject to the tax liens on record. City and County will assume the estimated cost and fees, and environmental cleanup costs in the approximate

amount of $1,061,000.00 and any other action required by the federal EPA or the NC Department of Environmental Quality. Donor acknowledges that while the City and County have agreed to assume the environmental cleanup costs and fees, the City and County do not have the authority to release the Donor from liability to the EPA or NC DEQ and specifically disclaim any obligation to pay fines levied or assessed against Donor. The Donee does agree not to initiate any such action or seek the imposition of such EPA or NC DEQ liability on Donor.

5. **Prorations and Fees**. All accrued and unpaid real property taxes on the Property, all accrued and unpaid business personal property taxes levied against Donor within McDowell County, any documentary tax or real property transfer tax arising out of the conveyance of the Property, the premium for a title insurance policy and any other fees and charges (except for any appraisal required to establish fair market value for Donor's tax deduction purposes) shall be paid or otherwise legally discharged by the City and the County.

6. **Title**. Donor shall convey title to the Property to the City and the County, each a one-half (1/2) undivided interest as tenants in common, by execution of a General Warranty Deed subject only to the following title exceptions: (i) exceptions for a lien for local real estate taxes and assessment not yet due or payable; (ii) standard preprinted exceptions and exclusions listed on a preliminary title opinion ("Title Opinion") or on a preliminary title commitment issued by a reputable title company acceptable to the City and the County; and (iii) any other exception shown on the Title Opinion, other than exceptions for monetary liens which neither the City nor the County objects to by written notice. The City and the County shall examine the Title Opinion and shall have ten (10) days to furnish the Donor a written statement of any objections to title. If Donor is unable or unwilling to satisfy all of the stated title objections by the date set for closing, the City and the County may, at its option: (a) waive the title objections and proceed to close; (b) proceed to closing with respect to the portion(s) of the Property not affected by the stated title objections; (c) at the City and/or County's expense, cure such title defects as may be cured by the payment of money; or (d) terminate this Agreement, in which case Donor and the City and the County shall have no further rights, obligations or duties hereunder.

7. **Title Insurance**. Donor shall provide the City and County, upon execution of this Agreement, with a copy of any owner's title insurance policy that Donor has obtained or has in its possession. City and County shall be responsible, at their expense, for the cost of an owner's policy of title insurance in the full amount of the fair market value of the Property insuring that title to the Property is vested in the City and the County, each a one-half undivided interest as tenants in common, upon closing subject only to the exceptions accepted by the City and County as provided in Section 6 above.

8. **Right to Inspect Property**. In addition to examining the Title Opinion, as part of its due diligence the City and County may require and/or conduct inspections, tests and studies with respect to the physical and environmental condition of the Property, including but not limited to Phase I and Phase II environmental assessments. The City, the County, and its consultants, agents, engineers, inspectors, contractors, and

employees must be given reasonable access to the Property for the purpose of performing such due diligence.

9. **Donor Promise not the Further Encumber**. Donor shall not do any of the following without the prior written consent of the City and County: (i) make or extend any leases, contracts, options or agreements whatsoever affecting the Property; (ii) cause or permit any additional lien, encumbrance, mortgage, deed of trust, right, restriction or easement to be placed upon the Property; or (iii) permit a mortgage, deed of trust or other lien to be foreclosed upon due to Donor's actions or omission, including failure to make a required payment, or (iv) convey any interest in the Property, including but not limited to conveyance of title and transfer of development rights.

10. **Donor Representations**. Donor represents the following:

    a. **Authorization**. Donor has full power and authority to enter into this Agreement and to convey title to the Property in accordance with this Agreement. No consent or authorization from any other person, entity or governmental agency is required for Donor to enter into and perform Donor obligations under this Agreement except as has already been obtained. The execution of the Agreement will not constitute a breach or default under any agreement to which Donor is bound and/or to which the Property is subject.

    b. **Compliance with Laws**. With the exception of notices of violation by the City, which are in dispute between the parties and shall be dismissed or cancelled by the City prior to or upon the execution of this Agreement, and violations asserted by the federal EPA and/or the North Carolina Department of Environmental Quality (formerly NC Department of Natural Resources), the Property and its current use does not in any way violate any applicable laws, ordinances, rules, regulations, judgments, orders or covenants, conditions and restrictions, whether federal, state, local, foreign, or private.

    c. **Title to Property**. Donor has good and marketable title to the Property. Donor has no actual knowledge of any unrecorded or undisclosed legal or equitable interest in the Property owned or claimed by anyone other than Donor. Donor has no knowledge that anyone will, at the closing, have any right to possession of the Property, except as disclosed in writing to the City and the County. There are no unsatisfied mechanics' or materialmens' lien rights on the Property. No assessment lien or bond encumbers the Property, and no governmental authority has undertaken any action that could give rise to an assessment lien affecting the Property.

    d. **Litigation**. With the exception of notices of violation by the City, which are in dispute between the parties and shall be dismissed or cancelled by the City prior to or upon the execution of this Agreement, and violations asserted by the federal EPA and the North Carolina Department of Environmental Quality, there is no suit, action, arbitration, legal, administrative or other proceeding or inquiry pending or threatened against the Property or any portion thereof, or pending or threatened against Donor which could affect

Donor's title to the Property or any portion thereof, or subject an owner of the Property, or any portion thereof, to liability.

e. **Other Proceedings**. No attachments, execution proceeds, assignments for the benefit of creditors, insolvency, bankruptcy, reorganization, or other proceedings are pending or threatened against Donor or Donor's interest in the Property, nor are any such proceedings contemplated by Donor

11. **Remedies Upon Default**. In the event Donor defaults in the performance of any of Donor's obligations under this Agreement, the City and the County shall, in addition to any and all other remedies provided in this Agreement or by law or equity, have the right of specific performance against Donor.

12. **Risk of Loss**. All risk of loss shall remain with Donor until closing. In the event the Property is destroyed or damaged prior to closing, either the City or the County may rescind this Agreement.

13. **Notices**. All notices pertaining to this Agreement shall be in writing delivered to the Parties hereto personally by hand, courier service or express mail, or by first class mail, postage prepaid, at the addresses set forth in Recital A. All notices shall be deemed given when deposited in the mail, first class postage prepaid, addressed to the party to be notified; or if delivered by hand, courier service or express mail, shall be deemed given when delivered. The Parties may, by notice as provided above, designate a different address to which notice shall be given.

14. **Attorney Fees**. Each party will be responsible for its own legal fees in connection with this Agreement and the closing. If any legal action is brought by either Party to enforce any provision of this Agreement, the prevailing Party shall be entitled to recover reasonable attorneys' fees and costs.

15. **Time of the Essence**. Time is of the essence in this Agreement.

16. **Binding on Successors**. This Agreement shall inure to the benefit of and be binding on the Parties to this Agreement and their respective successors and assigns.

17. **Additional Documents**. Donor and the City and the County shall execute such additional documents, including escrow instructions, as may be reasonable and necessary to carry out the provisions of this Agreement.

18. **Entire Agreement; Modification**. This Agreement constitutes the entire agreement between the Parties pertaining to the subject matter contained in it and supersedes all prior and contemporaneous agreements, representations, and understandings. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing by the Parties.

19. **Severability**. If any provision of this Agreement as applied to either Party or to any circumstance is adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, this fact shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of this Agreement as a whole.

20. **No Merger**. This Agreement, each provision of it, and all warranties and representations in this Agreement shall survive the closing and shall not merge in any instrument conveying title to the City and the County. All representations, warranties, agreements, and obligations of the Parties shall, despite any investigation made by any Party to this Agreement, survive closing, and the same shall inure to the benefit of and be binding on the Parties' respective successors and assigns.

21. **Counterparts**. This Agreement may be signed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Facsimile or scanned signatures shall be acceptable as evidence of execution of this Agreement, without the need for sending or receiving the original, executed document. Facsimile or scanned signatures are deemed to be original signatures.

22. **Assignability**. This Agreement may not be assigned by either party.

23. **Governing Law**. This Agreement shall be governed by the laws of the State of North Carolina.

24. **Waiver**. The failure of either Party to enforce any provision of this Agreement shall not be construed as a waiver or limitation of that Party's right to subsequently enforce and compel strict compliance with every provision of this Agreement.

25. **Contingencies**.

    A. **Council/Board Approval**. The City's performance of its obligations under this Agreement is subject to and contingent upon the City obtaining approval of the transaction by the City's Council. The County's performance of its obligations under this Agreement is subject to and contingent upon the County obtaining approval of the transaction by the County Board of Commissioners.

    B. **Brownfields Program**. The City and County's willingness to accept the donation of the Property as described herein and the City and County's performance of its obligations under this Agreement are subject to and contingent upon: (i) the Property being identified and accepted as a Brownfields property or site under the Brownfields Property Reuse Act (NC Gen. Stat. 130A-310.30 et. seq.); and (ii) approval for the City and County to participate in the Brownfields Property Reuse Act as evidenced by the issuance of a Letter of Eligibility and execution of a Brownfields Agreement signed by the City and County as a prospective developer and North Carolina Department of Environmental Quality (formerly Department of Natural Resources); and (iii) the City and County being afforded the liability protections contained within the Brownfields Property Reuse Act.

    C. **Eligibility for Grant Funds**. The City and County's willingness to accept the donation of the Property as described herein and the City and County's performance of its obligations under this Agreement are subject to and contingent upon the City being approved as a recipient of the following grant

funds issued by the Rural Development Division of the North Carolina Department of Commerce: (i) Community Development Block Grant in the amount of $500,000.00; and (ii) Building Demolition Grant in the amount of $150,000.00.

D. **Interlocal Agreement with County**. The City and County have entered into an Interlocal Agreement concerning the Property, which is attached hereto as Exhibit A, the terms of which are hereby incorporated herein by reference. To the extent any inconsistency exists the provisions of this Agreement shall prevail.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date indicated below:

DONOR:

MARION PROPERTY, LLC

By: _____ Date: 6/14/18
Fred D. Godley, Member and Manager

DONEE:

CITY OF MARION, NORTH CAROLINA

By: _____ Date: 7-17-18
Stephen R. Little, Mayor

Attested by: _____
J. Robert Boyette, City Manager/Clerk

MCDOWELL COUNTY, NORTH CAROLINA

By: _____ Date: 7/9/18
David Walker, Chairman

Attested by: _____
Cheryl Mitchell, Clerk to the Board

This Agreement has been pre-audited by the City and the County in the manner required by the Local Government Budget and Fiscal Control Act.

By: _____
Finance Officer
McDowell County

By: _____
Finance Officer
City of Marion

Appendix III: Regulatory Records Documentation

Blue Ridge Street
Blue Ridge Street
Marion, NC 28752

Inquiry Number: 7146273.2s
October 12, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of the environmental records was conducted by Environmental Data Resources, Inc. (EDR). ECS SOUTHEAST, LLP used the EDR FieldCheck System to review and/or revise the results of this search, based on independent data verification by ECS SOUTHEAST, LLP. The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

BLUE RIDGE STREET
MARION, NC 28752

COORDINATES

Latitude (North):	35.6800950 - 35ˆ 40' 48.34''
Longitude (West):	82.0146880 - 82ˆ 0' 52.87''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	408177.0
UTM Y (Meters):	3948742.0
Elevation:	1396 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	13742050 MARION WEST, NC
Version Date:	2019
East Map:	13839794 MARION EAST, NC
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140617
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
BLUE RIDGE STREET
MARION, NC 28752

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DREXEL MILL / DREXEL	70 BLUE RIDGE STREET	US BROWNFIELDS		TP
A2	WESTWOOD NC II LLC	70 BLUE RIDGE ST	UST		TP
A3	DREXEL HERITAGE #2	361 BLUE RIDGE STREE	LUST, IMD		TP
B4	DREXEL HERITAGE	70 BLUE RIDGE STREET	BROWNFIELDS		TP
A5	DREXEL HERITAGE PLAN	70 BLUE RIDGE ST	RCRA NonGen / NLR		TP
B6	DREXEL HERITAGE FURN	361 BLUE RIDGE ST	AST		TP
B7	DREXEL HERITAGE #2-#	DREXEL HERITAGE PLAN	IMD	Higher	1 ft.
8	DREXEL HERITAGE #2-#	DREXEL HERITAGE #2	LAST	Higher	1 ft.
9	WILLWEAR HOSIERY MFG	360 BLUE RIDGE ST.	LAST, IMD	Higher	34, 0.006, WNW
C10	KWIK AS A WINK	315 W HENDERSON ST	UST, Financial Assurance	Lower	75, 0.014, ENE
C11	WEST HENDERSON MARKE	315 WEST HENDERSON	EDR Hist Auto	Lower	75, 0.014, ENE
C12	MARION FOOD MART	275 WEST HENDERSON S	LUST	Lower	129, 0.024, ENE
D13	MCDOWELL COUNTY MILL	4 OLD WEST HENDERSON	LUST	Lower	418, 0.079, SSE
D14	MCDOWELL COUNTY MILL	4 OLD WEST HENDERSON	RCRA NonGen / NLR, US AIRS, ICIS	Lower	418, 0.079, SSE
D15	BROYHILL-MARION	4 OLD WEST HENDERSON	LAST, INST CONTROL	Lower	434, 0.082, SSE
E16	ETTA PACKAGING INC.	21 BURGIN ST.	UST, LUST	Higher	462, 0.087, NE
E17	ROCK TENN COMPANY	33 BURGIN ST	RCRA-VSQG, IMD	Higher	467, 0.088, NE
D18	MCDOWELL OIL CO.	19 E WEST	UST	Lower	515, 0.098, SSE
E19	ROCK-TENN MARION FOL	33 BURGIN ST	SHWS	Higher	517, 0.098, NE
F20	MCDOWELL COUNTY MILL	426 WEST HENDERSON S	SEMS-ARCHIVE	Lower	518, 0.098, ESE
F21	HALL OIL CO	426 W HENDERSON ST	EDR Hist Auto	Lower	518, 0.098, ESE
F22	TEXACO FOODMART	435 W HENDERSON ST	EDR Hist Auto	Lower	530, 0.100, ESE
F23	BROYHILL FURNITURE I	436 W. HENDERSON ST.	UST	Lower	562, 0.106, ESE
G24	IDEAL CLEANERS INC	139 W HENDERSON ST	DRYCLEANERS	Higher	588, 0.111, ENE
H25	CROSS MILLS, INC.	513 CARSON ST.	IMD	Higher	595, 0.113, SW
H26	CROSS MILLS INC	513 CARSON STREET	UST	Higher	595, 0.113, SW
H27	UNLIMITED FINISHING	512 CARSON ST	SEMS-ARCHIVE	Higher	603, 0.114, SW
28	KWIK KLEEN LAUNDRY I	MORGAN STREET	DRYCLEANERS	Lower	622, 0.118, ENE
I29	334 W COURT STREET -	334 W COURT STREET	RCRA NonGen / NLR	Higher	633, 0.120, North
I30	W COURT STREET RESID	334 W COURT STREET	SEMS	Higher	633, 0.120, North
G31	IDEAL CLEANERS	139 WEST HENDERSON	DRYCLEANERS	Higher	688, 0.130, ENE
G32	IDEAL CLEANERS	139 W HENDERSON ST	DRYCLEANERS	Higher	688, 0.130, ENE
G33	IDEAL CLEANERS	133 WEST HENDERSON	DRYCLEANERS	Higher	717, 0.136, ENE
G34	IDEAL CLEANERS	133 WEST HENDERSON S	UST	Higher	717, 0.136, ENE
G35	IDEAL CLEANERS	133 W HENDERSON ST	DRYCLEANERS	Higher	717, 0.136, ENE
G36	EMW PROPERTIES	105 W. HENDERSON ST.	LUST, INST CONTROL	Higher	838, 0.159, ENE
J37	TRIANGLE MART	548 W. HENDERSON ST.	IMD	Lower	858, 0.162, SSE
J38	MARION BRANCH OFFICE	601 W. HENDERSON	UST, LUST	Higher	894, 0.169, SSE
J39	DUKE POWER OPNS CTR-	601 W. HENDERSON	IMD	Higher	895, 0.170, SSE

MAPPED SITES SUMMARY

Target Property Address:
BLUE RIDGE STREET
MARION, NC 28752

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	KAY LEE EXPRESS	435 WEST HENDERSON S	UST, Financial Assurance, LUST TRUST, LUST, IMD	Lower	903, 0.171, SE
K41	RITE AID #11558	625 WEST HENDERSON S	RCRA NonGen / NLR	Higher	915, 0.173, SSE
K42	INGLES 60	625 WEST HENDERSON S	UST, Financial Assurance	Higher	915, 0.173, SSE
J43	KWIK AS A WINK	505 WEST HENDERSON S	LUST	Lower	961, 0.182, SE
44	DIXIE DRY CLEANERS	11 SOUTH LOGAN	DRYCLEANERS	Higher	973, 0.184, ENE
L45	MCDOWELL CO PARKS &	1 ACADEMY STREET	UST	Higher	1033, 0.196, NE
46	TRIANGLE MART	548 OLD W. HENDERSON	UST	Higher	1038, 0.197, South
L47	MARION DRY CLEANERS	109 WEST COURT	DRYCLEANERS	Higher	1042, 0.197, NE
L48	ECONOMY COIN A MATIC	109 WEST COURT STREE	DRYCLEANERS	Higher	1042, 0.197, NE
L49	MCDOWELL CEMENT PROD	SOUTH GARDEN STREET	UST	Higher	1171, 0.222, NE
L50	LIBRARY-MAIN BRANCH	100 WEST COURT ST	LUST, IMD	Higher	1210, 0.229, NE
M51	HOLIDAY CLEANERS INC	30 N LOGAN ST	DRYCLEANERS	Higher	1279, 0.242, NE
M52	HOLIDAY CLEANERS	30 NORTH LOGAN STREE	DRYCLEANERS	Higher	1279, 0.242, NE
53	MCDOWELL DRY CLEANER	12 HENDERSON ST	DRYCLEANERS	Higher	1313, 0.249, ENE
M54	GALEY & LORD INDUSTR	HIGHWAY 70 EAST	ECHO, FINDS, LUST, IMD	Higher	1376, 0.261, NE
N55	MCDOWELL CO. C&D STO	10 EAST COURT DRIVE	HIST LF	Higher	1593, 0.302, NE
N56	MAIN STREET EXXON	14 NORTH MAIN STREET	LUST	Higher	1602, 0.303, NE
N57	CITY FOOD 10042	36 N. MAIN STREET	UST, LUST TRUST	Higher	1653, 0.313, NE
O58	MCDOWELL CEMENT	101 S GARDEN ST	SEMS-ARCHIVE	Higher	1770, 0.335, ENE
O59	MCDOWELL CONCRETE PL	101 SOUTH GARDEN STR	LUST	Higher	1770, 0.335, ENE
P60	CITY FOOD	N. MAIN ST & FORT ST	LUST, IMD	Higher	1816, 0.344, NE
61	GTE-MARION	20 NORTH GARDEN ST.	IMD	Higher	1866, 0.353, East
P62	KEHLER'S #6 (BP)	336 NORTH MAIN STREE	LUST, IMD	Higher	1914, 0.363, NE
63	CONTEL OF NC MAIN &	20 NORTH GARDEN STRE	UST, LUST	Higher	1993, 0.377, NE
64	MOUNTAINVIEW FACILIT	250 MADISON ST	LUST, IMD	Higher	2584, 0.489, NE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8.

Site	Database(s)	EPA ID
DREXEL MILL / DREXEL 70 BLUE RIDGE STREET MARION, NC 28752	US BROWNFIELDS Cleanup Completion Date: -: Cleanup Completion Date: -: ACRES property ID: 213841: ACRES property ID: 213841:	N/A
WESTWOOD NC II LLC 70 BLUE RIDGE ST MARION, NC 28752	UST Facility Id: 00-0-0000013291: Tank Status: : Tank Status: : Tank Status: : Tank Status: : Tank Status: : Tank Status: : Tank Status: : Tank Status: : Tank Status::	N/A
DREXEL HERITAGE #2 361 BLUE RIDGE STREE MARION, NC	LUST Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 11091: IMD Facility Id: 11091:	N/A
DREXEL HERITAGE 70 BLUE RIDGE STREET MARION, NC	BROWNFIELDS Project ID: 20072-16-056:	N/A
DREXEL HERITAGE PLAN 70 BLUE RIDGE ST MARION, NC 28752	RCRA NonGen / NLR EPA ID:: NCD097368294:	N/A
DREXEL HERITAGE FURN 361 BLUE RIDGE ST MARION, NC 28752	AST Facility Id: 56009:	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No sites were identified in following databases.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---- National Priority List
Proposed NPL ---- Proposed National Priority List Sites
NPL LIENS ---- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---- Federal Facility Site Information listing

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---- RCRA - Large Quantity Generators
RCRA-SQG ---- RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System
US ENG CONTROLS ---- Engineering Controls Sites List
US INST CONTROLS ---- Institutional Controls Sites List

Federal ERNS list

ERNS ---- Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

NC HSDS ---- Hazardous Substance Disposal Site

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---- List of Solid Waste Facilities
OLI ---- Old Landfill Inventory
DEBRIS ---- Solid Waste Active Disaster Debris Sites Listing
LCID ---- Land-Clearing and Inert Debris (LCID) Landfill Notifications

Lists of state and tribal leaking storage tanks

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST ---- Underground Storage Tank Listing
INDIAN UST ---- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

VCP ---- Responsible Party Voluntary Action Sites
INDIAN VCP ---- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Recycling Center Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
US CDL ---- National Clandestine Laboratory Register
PFAS ---- PFAS Contamination Site Listing

Local Land Records

LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
SPILLS ---- Spills Incident Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch
SPILLS 80 ---- SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision

RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
AIRS	Air Quality Permit Listing
ASBESTOS	ASBESTOS
COAL ASH	Coal Ash Disposal Sites
Financial Assurance	Financial Assurance Information Listing
NPDES	NPDES Facility Location Listing
UIC	Underground Injection Wells Listing
AOP	Animal Operation Permits Listing
PCSRP	Petroleum-Contaminated Soil Remediation Permits
SEPT HAULERS	Permitted Septage Haulers Listing
CCB	Coal Ash Structural Fills (CCB) Listing
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

An online review and analysis by ECS SOUTHEAST, LLP of the SEMS list,
as provided by EDR, has revealed that there is 1 SEMS site
within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
W COURT STREET RESID	334 W COURT STREET	N 0 - 1/8 (0.120 mi.)	I30	116

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

An online review and analysis by ECS SOUTHEAST, LLP of the SEMS-ARCHIVE list,
as provided by EDR, has revealed that there are 3 SEMS-ARCHIVE sites
within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNLIMITED FINISHING EPA Id: NCN000410268: Site ID: 0410268:	512 CARSON ST	SW 0 - 1/8 (0.114 mi.)	H27	112
MCDOWELL CEMENT EPA Id: NCN000410269: Site ID: 0410269:	101 S GARDEN ST	ENE 1/4 - 1/2 (0.335 mi.)	O58	158

Lower Elevation	Address	Direction / Distance	Map ID	Page
MCDOWELL COUNTY MILL EPA Id: NCN000410248: Site ID: 0410248:	426 WEST HENDERSON S	ESE 0 - 1/8 (0.098 mi.)	F20	106

Lists of Federal RCRA generators

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

An online review and analysis by ECS SOUTHEAST, LLP of the RCRA-VSQG list, as provided by EDR, has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROCK TENN COMPANY EPA ID:: NCD986232676:	***33 BURGIN ST***	***NE 0 - 1/8 (0.088 mi.)***	***E17***	***93***

Lists of state- and tribal hazardous waste facilities

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

An online review and analysis by ECS SOUTHEAST, LLP of the SHWS list, as provided by EDR, has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROCK-TENN MARION FOL Facility Id: NCD986232676:	33 BURGIN ST	NE 0 - 1/8 (0.098 mi.)	E19	106

Lists of state and tribal leaking storage tanks

LAST: A listing of leaking aboveground storage tank site locations.

An online review and analysis by ECS SOUTHEAST, LLP of the LAST list, as provided by EDR, has revealed that there are 3 LAST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DREXEL HERITAGE #2-# Close Out: 05/22/1995: Current Status: A: Incident Number: 12972:	DREXEL HERITAGE #2	0 - 1/8 (0.000 mi.)	8	54
WILLWEAR HOSIERY MFG Close Out: : Current Status: C: Incident Number: 11940:	***360 BLUE RIDGE ST.***	***WNW 0 - 1/8 (0.006 mi.)***	***9***	***55***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROYHILL-MARION Close Out: 05/24/2017: Current Status: C: Incident Number: 87946:	***4 OLD WEST HENDERSON***	***SSE 0 - 1/8 (0.082 mi.)***	***D15***	***89***

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

An online review and analysis by ECS SOUTHEAST, LLP of the LUST list, as provided by EDR, has revealed that there are 15 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ETTA PACKAGING INC. Incident Phase: CO: Current Status: File Located in House: Incident Number: 19263:	***21 BURGIN ST.***	***NE 0 - 1/8 (0.087 mi.)***	***E16***	***91***
EMW PROPERTIES Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 41482:	***105 W. HENDERSON ST.***	***ENE 1/8 - 1/4 (0.159 mi.)***	***G36***	***120***
MARION BRANCH OFFICE Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 11262:	***601 W. HENDERSON***	***SSE 1/8 - 1/4 (0.169 mi.)***	***J38***	***124***
LIBRARY-MAIN BRANCH Incident Phase: RE: Current Status: File Located in House: Incident Number: 5380:	***100 WEST COURT ST***	***NE 1/8 - 1/4 (0.229 mi.)***	***L50***	***145***
GALEY & LORD INDUSTR	***HIGHWAY 70 EAST***	***NE 1/4 - 1/2 (0.261 mi.)***	***M54***	***150***

Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 7526:				
MAIN STREET EXXON Current Status: File Located in Archives: Incident Number: 28743:	14 NORTH MAIN STREET	NE 1/4 - 1/2 (0.303 mi.)	N56	154
MCDOWELL CONCRETE PL Incident Phase: CO: Current Status: File Located in House: Incident Number: 41714:	101 SOUTH GARDEN STR	ENE 1/4 - 1/2 (0.335 mi.)	O59	159
CITY FOOD Incident Phase: FU: Current Status: File Located in House: Incident Number: 11785:	***N. MAIN ST & FORT ST***	***NE 1/4 - 1/2 (0.344 mi.)***	***P60***	***161***
KEHLER'S #6 (BP) Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 16768:	***336 NORTH MAIN STREE***	***NE 1/4 - 1/2 (0.363 mi.)***	***P62***	***165***
CONTEL OF NC MAIN & Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 10363:	***20 NORTH GARDEN STRE***	***NE 1/4 - 1/2 (0.377 mi.)***	***63***	***168***
MOUNTAINVIEW FACILIT Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 18840:	***250 MADISON ST***	***NE 1/4 - 1/2 (0.489 mi.)***	***64***	***171***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARION FOOD MART Incident Phase: RE: Current Status: File Located in House: Incident Number: 15381:	275 WEST HENDERSON S	ENE 0 - 1/8 (0.024 mi.)	C12	61
MCDOWELL COUNTY MILL Incident Phase: CO: Current Status: File Located in Archives: Incident Number: 41072:	4 OLD WEST HENDERSON	SSE 0 - 1/8 (0.079 mi.)	D13	62
KAY LEE EXPRESS Current Status: File Located in House: Incident Number: 47472:	***435 WEST HENDERSON S***	***SE 1/8 - 1/4 (0.171 mi.)***	***40***	***127***
KWIK AS A WINK Current Status: File Located in Archives: Incident Number: 41163:	505 WEST HENDERSON S	SE 1/8 - 1/4 (0.182 mi.)	J43	139

LUST TRUST: This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

An online review and analysis by ECS SOUTHEAST, LLP of the LUST TRUST list, as provided by EDR, has revealed that there are 2 LUST TRUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CITY FOOD 10042 Site ID: 11785: Facility Id: 0-013552:	***36 N. MAIN STREET***	***NE 1/4 - 1/2 (0.313 mi.)***	***N57***	***155***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAY LEE EXPRESS Site ID: 47472: Facility Id: 00-0-0000034798:	***435 WEST HENDERSON S***	***SE 1/8 - 1/4 (0.171 mi.)***	***40***	***127***

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environment & Natural Resources' Petroleum Underground Storage Tank Database.

An online review and analysis by ECS SOUTHEAST, LLP of the UST list, as provided by EDR, has revealed that there are 12 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ETTA PACKAGING INC. Facility Id: 00-0-0000002774: Tank Status::	***21 BURGIN ST.***	***NE 0 - 1/8 (0.087 mi.)***	***E16***	***91***
CROSS MILLS INC Facility Id: 00-0-0000014406: Tank Status: : Tank Status: : Tank Status::	513 CARSON STREET	SW 0 - 1/8 (0.113 mi.)	H26	111
IDEAL CLEANERS Facility Id: 00-0-0000028811: Tank Status::	133 WEST HENDERSON S	ENE 1/8 - 1/4 (0.136 mi.)	G34	119
MARION BRANCH OFFICE Facility Id: 00-0-0000013535: Tank Status::	***601 W. HENDERSON***	***SSE 1/8 - 1/4 (0.169 mi.)***	***J38***	***124***
INGLES 60 Facility Id: 00-0-0000042630: Tank Status: : Tank Status: : Tank Status: : Tank Status::	***625 WEST HENDERSON S***	***SSE 1/8 - 1/4 (0.173 mi.)***	***K42***	***137***
MCDOWELL CO PARKS & Facility Id: 00-0-0000032371: Tank Status::	1 ACADEMY STREET	NE 1/8 - 1/4 (0.196 mi.)	L45	141
TRIANGLE MART Facility Id: 00-0-0000027050: Tank Status: : Tank Status::	548 OLD W. HENDERSON	S 1/8 - 1/4 (0.197 mi.)	46	142
MCDOWELL CEMENT PROD	SOUTH GARDEN STREET	NE 1/8 - 1/4 (0.222 mi.)	L49	144

Facility Id: 00-0-0000014435:
Tank Status::

Lower Elevation	Address	Direction / Distance	Map ID	Page
KWIK AS A WINK Facility Id: 00-0-0000025221: Tank Status: : Tank Status: : Tank Status: : Tank Status::	***315 W HENDERSON ST***	***ENE 0 - 1/8 (0.014 mi.)***	***C10***	***59***
MCDOWELL OIL CO. Facility Id: 00-0-0000014784: Tank Status: : Tank Status::	19 E WEST	SSE 0 - 1/8 (0.098 mi.)	D18	105
BROYHILL FURNITURE I Facility Id: 00-0-0000017088: Tank Status: : Tank Status::	436 W. HENDERSON ST.	ESE 0 - 1/8 (0.106 mi.)	F23	108
KAY LEE EXPRESS Facility Id: 00-0-0000034798: Tank Status: : Tank Status::	***435 WEST HENDERSON S***	***SE 1/8 - 1/4 (0.171 mi.)***	***40***	***127***

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring.

An online review and analysis by ECS SOUTHEAST, LLP of the INST CONTROL list, as provided by EDR, has revealed that there are 2 INST CONTROL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMW PROPERTIES	***105 W. HENDERSON ST.***	***ENE 1/8 - 1/4 (0.159 mi.)***	***G36***	***120***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROYHILL-MARION	***4 OLD WEST HENDERSON***	***SSE 0 - 1/8 (0.082 mi.)***	***D15***	***89***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: A listing of solid waste facilities.

An online review and analysis by ECS SOUTHEAST, LLP of the HIST LF list, as provided by EDR, has revealed that there is 1 HIST LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MCDOWELL CO. C&D STO Facility Id: U0008: Facility Status: CLOSED:	10 EAST COURT DRIVE	NE 1/4 - 1/2 (0.302 mi.)	N55	153

Records of Emergency Release Reports

IMD: Incident Management Database.

An online review and analysis by ECS SOUTHEAST, LLP of the IMD list, as provided by EDR, has revealed that there are 13 IMD sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DREXEL HERITAGE #2-# Facility Id: 12972:	DREXEL HERITAGE PLAN	0 - 1/8 (0.000 mi.)	B7	53
WILLWEAR HOSIERY MFG Facility Id: 11940:	***360 BLUE RIDGE ST.***	***WNW 0 - 1/8 (0.006 mi.)***	***9***	***55***
ROCK TENN COMPANY Facility Id: 19263:	***33 BURGIN ST***	***NE 0 - 1/8 (0.088 mi.)***	***E17***	***93***
CROSS MILLS, INC. Facility Id: 00-0-0000014406:	513 CARSON ST.	SW 0 - 1/8 (0.113 mi.)	H25	110
DUKE POWER OPNS CTR- Facility Id: 11262:	601 W. HENDERSON	SSE 1/8 - 1/4 (0.170 mi.)	J39	126
LIBRARY-MAIN BRANCH Facility Id: 5380:	***100 WEST COURT ST***	***NE 1/8 - 1/4 (0.229 mi.)***	***L50***	***145***
GALEY & LORD INDUSTR Facility Id: 7526:	***HIGHWAY 70 EAST***	***NE 1/4 - 1/2 (0.261 mi.)***	***M54***	***150***
CITY FOOD Facility Id: 11785:	***N. MAIN ST & FORT ST***	***NE 1/4 - 1/2 (0.344 mi.)***	***P60***	***161***
GTE-MARION Facility Id: 10363:	20 NORTH GARDEN ST.	E 1/4 - 1/2 (0.353 mi.)	61	164
KEHLER'S #6 (BP) Facility Id: 16768:	***336 NORTH MAIN STREE***	***NE 1/4 - 1/2 (0.363 mi.)***	***P62***	***165***
MOUNTAINVIEW FACILIT Facility Id: 18840:	***250 MADISON ST***	***NE 1/4 - 1/2 (0.489 mi.)***	***64***	***171***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRIANGLE MART Facility Id: 00-0-0000021050:	548 W. HENDERSON ST.	SSE 1/8 - 1/4 (0.162 mi.)	J37	122
KAY LEE EXPRESS Facility Id: 15381:	***435 WEST HENDERSON S***	***SE 1/8 - 1/4 (0.171 mi.)***	***40***	***127***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

An online review and analysis by ECS SOUTHEAST, LLP of the RCRA NonGen / NLR list, as provided by EDR, has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
334 W COURT STREET - EPA ID:: NCP090820030:	334 W COURT STREET	N 0 - 1/8 (0.120 mi.)	I29	114
RITE AID #11558 EPA ID:: NCR000158030:	625 WEST HENDERSON S	SSE 1/8 - 1/4 (0.173 mi.)	K41	131

Lower Elevation	Address	Direction / Distance	Map ID	Page
MCDOWELL COUNTY MILL EPA ID:: NCD051325413:	***4 OLD WEST HENDERSON***	***SSE 0 - 1/8 (0.079 mi.)***	***D14***	***64***

DRYCLEANERS: Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

An online review and analysis by ECS SOUTHEAST, LLP of the DRYCLEANERS list, as provided by EDR, has revealed that there are 12 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IDEAL CLEANERS INC Facility Id: 560004C:	139 W HENDERSON ST	ENE 0 - 1/8 (0.111 mi.)	G24	109
IDEAL CLEANERS Facility Id::	139 WEST HENDERSON	ENE 1/8 - 1/4 (0.130 mi.)	G31	117
IDEAL CLEANERS Facility Id::	139 W HENDERSON ST	ENE 1/8 - 1/4 (0.130 mi.)	G32	118
IDEAL CLEANERS Facility Id::	133 WEST HENDERSON	ENE 1/8 - 1/4 (0.136 mi.)	G33	118
IDEAL CLEANERS Facility Id::	133 W HENDERSON ST	ENE 1/8 - 1/4 (0.136 mi.)	G35	120
DIXIE DRY CLEANERS Facility Id::	11 SOUTH LOGAN	ENE 1/8 - 1/4 (0.184 mi.)	44	140
MARION DRY CLEANERS Facility Id::	109 WEST COURT	NE 1/8 - 1/4 (0.197 mi.)	L47	143
ECONOMY COIN A MATIC Facility Id::	109 WEST COURT STREE	NE 1/8 - 1/4 (0.197 mi.)	L48	144
HOLIDAY CLEANERS INC Facility Id::	30 N LOGAN ST	NE 1/8 - 1/4 (0.242 mi.)	M51	148
HOLIDAY CLEANERS	30 NORTH LOGAN STREE	NE 1/8 - 1/4 (0.242 mi.)	M52	149

Facility Id:: MCDOWELL DRY CLEANER Facility Id::	12 HENDERSON ST	ENE 1/8 - 1/4 (0.249 mi.)	53	149

Lower Elevation	Address	Direction / Distance	Map ID	Page
KWIK KLEEN LAUNDRY I Facility Id::	MORGAN STREET	ENE 0 - 1/8 (0.118 mi.)	28	114

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

An online review and analysis by ECS SOUTHEAST, LLP of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

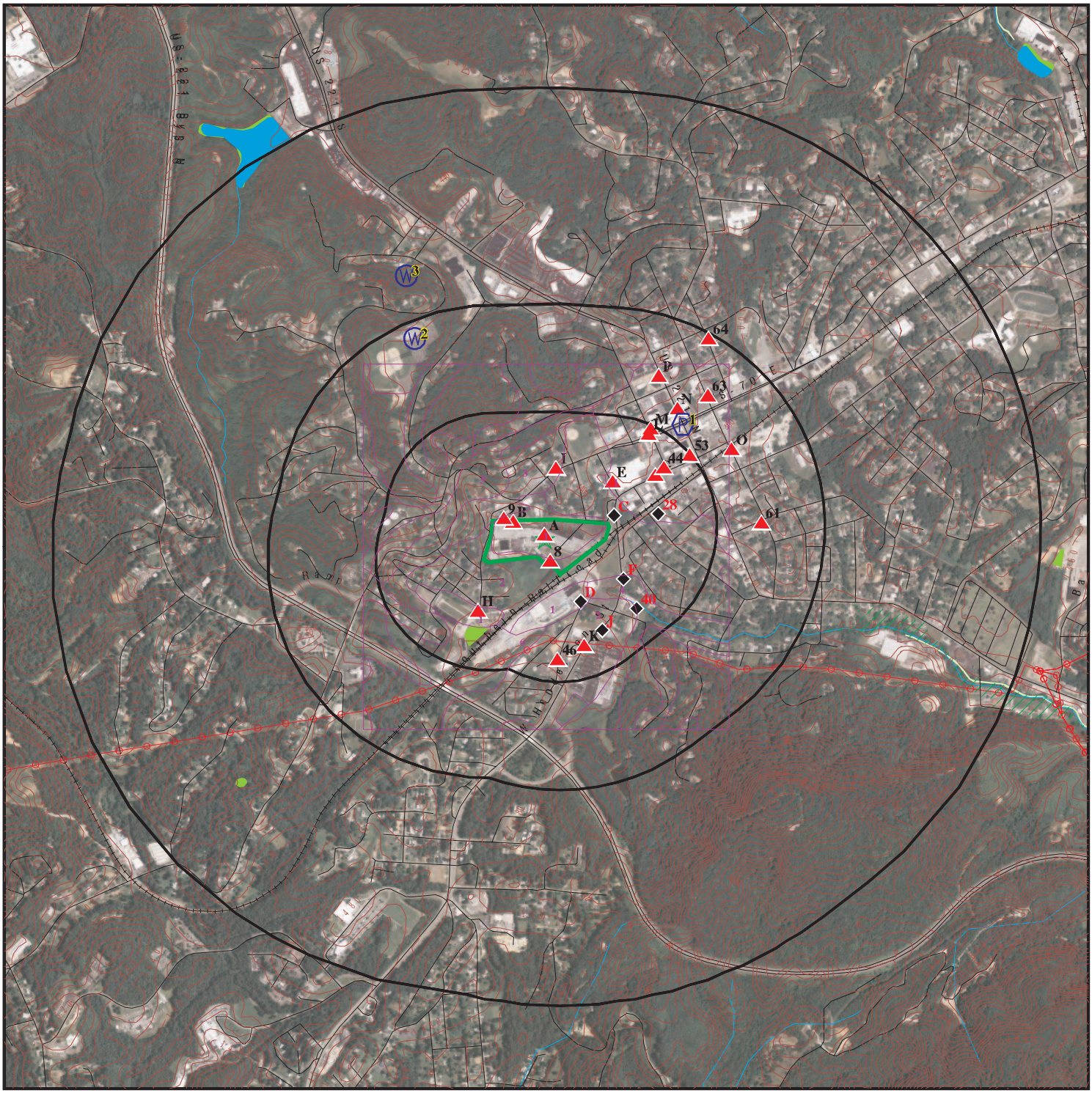
Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST HENDERSON MARKE	315 WEST HENDERSON	ENE 0 - 1/8 (0.014 mi.)	C11	61
HALL OIL CO	426 W HENDERSON ST	ESE 0 - 1/8 (0.098 mi.)	F21	108
TEXACO FOODMART	435 W HENDERSON ST	ESE 0 - 1/8 (0.100 mi.)	F22	108

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
CROSS EUGENE & CO	DRYCLEANERS
HOLIDAY CLEANERS	DRYCLEANERS
MODERN DRY CLEANERS	DRYCLEANERS

OVERVIEW MAP - 7146273.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Blue Ridge Street	CLIENT:	ECS Southeast, LLP
ADDRESS:	Blue Ridge Street Marion NC 28752	CONTACT:	Jennifer Brumbaugh
		INQUIRY #:	7146273.2s
LAT/LONG:	35.680095 / 82.014688	DATE:	October 31, 2022 1:40 pm

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DETAIL MAP - 7146273.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands
- Hazardous Substance Disposal Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Blue Ridge Street	CLIENT: ECS Southeast, LLP
ADDRESS: Blue Ridge Street Marion NC 28752	CONTACT: Jennifer Brumbaugh
LAT/LONG: 35.680095 / 82.014688	INQUIRY #: 7146273.2s DATE: October 31, 2022 1:40 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		2	0	1	NR	NR	3
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
NC HSDS	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		1	0	0	0	NR	1
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
OLI	0.500		0	0	0	NR	NR	0
DEBRIS	0.500		0	0	0	NR	NR	0
LCID	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LAST	0.500		3	0	0	NR	NR	3
LUST	0.500	1	3	5	7	NR	NR	16
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	1	1	NR	NR	2
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	5	7	NR	NR	NR	13
AST	0.250	1	0	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		1	1	0	NR	NR	2
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500	1	0	0	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500	1	0	0	0	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	1	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	TP		NR	NR	NR	NR	NR	0
IMD	0.500	1	4	4	5	NR	NR	14
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	2	1	NR	NR	NR	4
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		2	10	NR	NR	NR	12
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
AOP	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PCSRP	0.500		0	0	0	NR	NR	0
SEPT HAULERS	TP		NR	NR	NR	NR	NR	0
CCB	0.500		0	0	0	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		3	NR	NR	NR	NR	3
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		7	28	29	15	0	0	79

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **DREXEL MILL / DREXEL HERITAGE FURNITURE** **US BROWNFIELDS** **1018273121**
Target **70 BLUE RIDGE STREET** **N/A**
Property **MARION, NC 28752**

Site 1 of 4 in cluster A

Actual:
1396 ft.

Client Plot

US BROWNFIELDS:

Name:	DREXEL MILL / DREXEL HERITAGE FURNITURE
Address:	70 BLUE RIDGE STREET
City,State,Zip:	MARION, NC 28752
Recipient Name:	R4 TBA - North Carolina (STAG Funded)
Grant Type:	TBA
Property Number:	1.70110466e+11
Parcel size:	15.29
Latitude:	35.6807853
Longitude:	-82.015553
HCM Label:	Interpolation-Satellite
Map Scale:	-
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	The property was used by various companies involved in the manufacture of furniture or laminates from around 1902 until mid-2000. Petroleum, VOC, PAHs, ACM and LBP contamination were noted during the Phase I site visit. RECs associated with the site based on past operational activities include fuel oil USTs, an oil-water separator, ASTs (unknown contents), drums, and smaller containers of unknown contents. Flourescent lights are present and due to the age of the tubes and fixtures, may contain mercury. Former Use: The property was used by various furniture or laminate manufacturing companies from approximately 1902 intil mid-2000. In 2010, the property was purchased by Marion Property LLC.
Datum:	World Geodetic System of 1984
Acres Property ID:	213841
IC Data Access:	-
Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	-
Accomplishment Count:	-
Cooperative Agreement Number:	n/a
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Marion Property LLC
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y

DREXEL MILL / DREXEL HERITAGE FURNITURE (Continued) **1018273121**

Institutional Controls Required:				Y
IC Category Proprietary Controls:				Y
IC Cat. Info. Devices:		-		
IC Cat. Gov. Controls:		-		
IC Cat. Enforcement Permit Tools:				-
IC in place date:		-		
IC in place:	N			
State/tribal program date:			-	
State/tribal program ID:			-	
State/tribal NFA date:		-		
Air cleaned:	-			
Asbestos found:	Y			
Asbestos cleaned:		-		
Controled substance found:			-	
Controled substance cleaned:			-	
Drinking water affected:			-	
Drinking water cleaned:		-		
Groundwater affected:		-		
Groundwater cleaned:		-		
Lead contaminant found:		-		
Lead cleaned up:		-		
No media affected:		-		
Unknown media affected:		-		
Other cleaned up:		-		
Other metals found:		-		
Other metals cleaned:		-		
Other contaminants found:			Y	
Other contams found description:				mold
PAHs found:	-			
PAHs cleaned up:		-		
PCBs found:	-			
PCBs cleaned up:		-		
Petro products found:		Y		
Petro products cleaned:		-		
Sediments found:		-		
Sediments cleaned:		-		
Soil affected:	Y			
Soil cleaned up:		-		
Surface water cleaned:		-		
VOCs found:	-			
VOCs cleaned:	-			
Cleanup other description:			-	
Num. of cleanup and re-dev. jobs:				-
Past use greenspace acreage:			-	
Past use residential acreage:			-	
Surface Water:	-			
Past use commercial acreage:			-	
Past use industrial acreage:			15.29	
Future use greenspace acreage:			-	
Future use residential acreage:				-
Future use commercial acreage:			-	
Future use industrial acreage:			15.29	
Superfund Fed. landowner flag:			-	
Arsenic cleaned up:		-		
Cadmium cleaned up:		-		
Chromium cleaned up:		-		
Copper cleaned up:		-		

DREXEL MILL / DREXEL HERITAGE FURNITURE (Continued) **1018273121**

Iron cleaned up: -
mercury cleaned up: -
Nickel Cleaned Up: -
No clean up: -
Pesticides cleaned up: -
Selenium cleaned up: -
SVOCs cleaned up: -
Unknown clean up: -
Arsenic contaminant found: -
Cadmium contaminant found: -
Chromium contaminant found: -
Copper contaminant found: -
Iron contaminant found: -
Mercury contaminant found: -
Nickel contaminant found: -
No contaminant found: -
Pesticides contaminant found: -
Selenium contaminant found: -
SVOCs contaminant found: -
Unknown contaminant found: -
Future Use: Multistory -
Media affected Bluiding Material: Y
Media affected indoor air: -
Building material media cleaned up: -
Indoor air media cleaned up: -
Unknown media cleaned up: -
Past Use: Multistory -
Property Description: The property was used by various furniture or laminate manufacturing companies from approximately 1902 intil mid-2000. In 2010, the property was purchased by Marion Property LLC.
Below Poverty Number: 493
Below Poverty Percent: 30.47
Meidan Income: 3535
Meidan Income Number: 773
Meidan Income Percent: 47.78
Vacant Housing Number: 62
Vacant Housing Percent: 9.18
Unemployed Number: 76
Unemployed Percent: 4.7

Name: DREXEL MILL / DREXEL HERITAGE FURNITURE
Address: 70 BLUE RIDGE STREET
City,State,Zip: MARION, NC 28752
Recipient Name: R4 TBA - North Carolina (STAG Funded)
Grant Type: TBA
Property Number: 1.70110466e+11
Parcel size: 15.29
Latitude: 35.6807853
Longitude: -82.015553
HCM Label: Interpolation-Satellite
Map Scale: -
Point of Reference: Entrance Point of a Facility or Station
Highlights: The property was used by various companies involved in the manufacture of furniture or laminates from around 1902 until mid-2000. Petroleum, VOC, PAHs, ACM and LBP contamination were noted during the Phase I site visit. RECs associated with the site based on past operational activities include fuel oil USTs, an oil-water

DREXEL MILL / DREXEL HERITAGE FURNITURE (Continued) **1018273121**

separator, ASTs (unknown contents), drums, and smaller containers of unknown contents. Flourescent lights are present and due to the age of the tubes and fixtures, may contain mercury. Former Use: The property was used by various furniture or laminate manufacturing companies from approximately 1902 intil mid-2000. In 2010, the property was purchased by Marion Property LLC.

Datum: World Geodetic System of 1984
Acres Property ID: 213841
IC Data Access: -
Start Date: -
Redev Completition Date: -
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -
Cleanup Funding Source: -
Assessment Funding: 5445
Assessment Funding Source: EPA
Redevelopment Funding: -
Redev. Funding Source: -
Redev. Funding Entity Name: -
Redevelopment Start Date: -
Assessment Funding Entity: US EPA - TBA Funding
Cleanup Funding Entity: -
Grant Type: Hazardous
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: Y
Cooperative Agreement Number: n/a
Start Date: 1/13/2016
Ownership Entity: Private
Completion Date: 3/29/2016
Current Owner: Marion Property LLC
Did Owner Change: N
Cleanup Required: Y
Video Available: N
Photo Available: Y
Institutional Controls Required: Y
IC Category Proprietary Controls: Y
IC Cat. Info. Devices: -
IC Cat. Gov. Controls: -
IC Cat. Enforcement Permit Tools: -
IC in place date: -
IC in place: N
State/tribal program date: -
State/tribal program ID: -
State/tribal NFA date: -
Air cleaned: -
Asbestos found: Y
Asbestos cleaned: -
Controled substance found: -
Controled substance cleaned: -
Drinking water affected: -
Drinking water cleaned: -
Groundwater affected: -
Groundwater cleaned: -
Lead contaminant found: -
Lead cleaned up: -
No media affected: -

DREXEL MILL / DREXEL HERITAGE FURNITURE (Continued) **1018273121**

Unknown media affected:	-		
Other cleaned up:	-		
Other metals found:	-		
Other metals cleaned:	-		
Other contaminants found:		Y	
Other contams found description:			mold
PAHs found:	-		
PAHs cleaned up:	-		
PCBs found:	-		
PCBs cleaned up:	-		
Petro products found:	Y		
Petro products cleaned:	-		
Sediments found:	-		
Sediments cleaned:	-		
Soil affected:	Y		
Soil cleaned up:	-		
Surface water cleaned:	-		
VOCs found:	-		
VOCs cleaned:	-		
Cleanup other description:		-	
Num. of cleanup and re-dev. jobs:			-
Past use greenspace acreage:		-	
Past use residential acreage:		-	
Surface Water:	-		
Past use commercial acreage:		-	
Past use industrial acreage:		15.29	
Future use greenspace acreage:		-	
Future use residential acreage:			-
Future use commercial acreage:		-	
Future use industrial acreage:		15.29	
Superfund Fed. landowner flag:		-	
Arsenic cleaned up:	-		
Cadmium cleaned up:	-		
Chromium cleaned up:	-		
Copper cleaned up:	-		
Iron cleaned up:	-		
mercury cleaned up:	-		
Nickel Cleaned Up:	-		
No clean up:	-		
Pesticides cleaned up:	-		
Selenium cleaned up:	-		
SVOCs cleaned up:	-		
Unknown clean up:	-		
Arsenic contaminant found:		-	
Cadmium contaminant found:		-	
Chromium contaminant found:		-	
Copper contaminant found:		-	
Iron contaminant found:	-		
Mercury contaminant found:		-	
Nickel contaminant found:		-	
No contaminant found:	-		
Pesticides contaminant found:		-	
Selenium contaminant found:		-	
SVOCs contaminant found:		-	
Unknown contaminant found:		-	
Future Use: Multistory	-		
Media affected Bluiding Material:			Y

DREXEL MILL / DREXEL HERITAGE FURNITURE (Continued) **1018273121**

Media affected indoor air: -
Building material media cleaned up: -
Indoor air media cleaned up: -
Unknown media cleaned up: -
Past Use: Multistory -
Property Description: The property was used by various furniture or laminate manufacturing companies from approximately 1902 intil mid-2000. In 2010, the property was purchased by Marion Property LLC.
Below Poverty Number: 493
Below Poverty Percent: 30.47
Meidan Income: 3535
Meidan Income Number: 773
Meidan Income Percent: 47.78
Vacant Housing Number: 62
Vacant Housing Percent: 9.18
Unemployed Number: 76
Unemployed Percent: 4.7

A2 **WESTWOOD NC II LLC** **UST** **U003144397**
Target **70 BLUE RIDGE ST** **N/A**
Property **MARION, NC 28752**

Site 2 of 4 in cluster A

Actual:
1396 ft.

Client Plot

UST:
Name: WESTWOOD NC II LLC
Address: 70 BLUE RIDGE ST
City,State,Zip: MARION, NC 28752
Facility Id: 00-0-0000013291
Contact: WESTWOOD NC II LLC
Contact Address1: 70 BLUE RIDGE STREET
Contact Address2: Not reported
Contact City/State/Zip: MARION, NC 28752-4398
FIPS County Desc: McDowell
Latitude: 35.6806
Longitude: -82.0159

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 2-01
Tank Status: Not reported
Installed Date: 04/17/1975
Perm Close Date: Not reported
Product Name: Heating Oil/Fuel
Tank Capacity: 25000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: No
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown

WESTWOOD NC II LLC (Continued) **U003144397**

Decode for PSYS_KEY: Unknown

Tank Id: 2-02
Tank Status: Not reported
Installed Date: 04/17/1975
Perm Close Date: Not reported
Product Name: Heating Oil/Fuel
Tank Capacity: 25000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: No
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-03
Tank Status: Not reported
Installed Date: 04/17/1975
Perm Close Date: Not reported
Product Name: Heating Oil/Fuel
Tank Capacity: 25000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: No
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-04
Tank Status: Not reported
Installed Date: 04/17/1975
Perm Close Date: 10/31/1992
Product Name: Oil, New/Used/Mix
Tank Capacity: 8000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes

WESTWOOD NC II LLC (Continued) **U003144397**

Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-05
Tank Status: Not reported
Installed Date: 04/15/1983
Perm Close Date: 02/28/1993
Product Name: Gasoline, Gas Mix
Tank Capacity: 550
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-06
Tank Status: Not reported
Installed Date: 04/15/1981
Perm Close Date: 10/31/1992
Product Name: Diesel
Tank Capacity: 1000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-08
Tank Status: Not reported
Installed Date: 04/20/1961
Perm Close Date: 10/31/2002
Product Name: Other, Hazardous
Tank Capacity: 6048

WESTWOOD NC II LLC (Continued) **U003144397**

Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-11
Tank Status: Not reported
Installed Date: 04/20/1960
Perm Close Date: Not reported
Product Name: Other, Non-Petroleum
Tank Capacity: 5000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: No
Regulated: No
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

Tank Id: 2-23
Tank Status: Not reported
Installed Date: 01/01/1961
Perm Close Date: 10/31/1992
Product Name: Other, Petroleum
Tank Capacity: 8000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

A3 **DREXEL HERITAGE #2** **LUST** **S106195442**
Target **361 BLUE RIDGE STREET** **IMD** **N/A**
Property **MARION, NC**

Site 3 of 4 in cluster A

Actual:
1396 ft.

Client Plot

LUST:

Name:	DREXEL HERITAGE #2
Address:	361 BLUE RIDGE STREET
City,State,Zip:	MARION, NC
Facility ID:	00-0-000
UST Number:	AS-1008
Incident Number:	11091
Source Type:	3
Date Reported:	10/31/1992
Closure Request:	Not reported
Close Out:	01/02/1998
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	Not reported
Commercial/NonCommercial UST Site:	C
Risk Classification:	L
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	70 E
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	Not reported
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	3
Current Status:	A
RBCA GW:	Not reported
PETOPT:	Not reported
RPL:	False
CD Num:	102
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	MES
Company:	STANLEY CARTER
Telephone:	Not reported
5 Min Quad:	Not reported

LUST:

ERR Type:	Not reported
UST Number:	AS-1008
Facility Id:	11091
Date Occurred:	2/1/1993
Date Reported:	10/15/1993
Owner/Operator:	STANLEY CARTER
Ownership:	4
Operation Type:	5

DREXEL HERITAGE #2 (Continued) **S106195442**

Type: 3
Location: 1
Priority Update: 4/15/1998
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 3
5 Minute Quad: 1
Pirf/Min Soil: Not reported
Release Code: L80U
Source Code: Pirf
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 11091
Last Modified: 6/24/1998
Incident Phase: CO
NOV Issued: 10/15/1993
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 5/27/1998

IMD:
Facility ID: 11091
Name: DREXEL HERITAGE #2
Address: 361 BLUE RIDGE STREET
City,State,Zip: MARION, NC
Date Occurred: 10/31/1992
Submit Date: 10/15/1993
Incident Desc: UPON REMOVAL OF UST, SOIL AND GW CONTAM. WAS CONFIRMED.
Operator: DREXEL HERITAGE FURNISHINGS
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 5
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Industrial
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1

DREXEL HERITAGE #2 (Continued) **S106195442**

Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: 70 E
Whether Tank is Regulated: Not reported
Priority Update: 4/15/1998
Notice of Regulatory Requirement: Not reported
Wells Affected: N
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: 3
Samples Include: 1
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: L80U
Intermediate Condition Present: Not reported
Latitude: 35.68111111
Longitude: -82.01527777
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 11091
Last Modified: 1998-06-24 00:00:00
Incident Phase: CO
NOV Issued: 1993-10-15 00:00:00
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: 1995-01-04 00:00:00
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1998-05-27 00:00:00

B4 **DREXEL HERITAGE** **BROWNFIELDS** **S120839404**
Target **70 BLUE RIDGE STREET** **N/A**
Property **MARION, NC**

Site 1 of 3 in cluster B

Actual: **1396 ft.**

BROWNFIELDS:

Name:	DREXEL HERITAGE
Address:	70 BLUE RIDGE STREET
City,State,Zip:	MARION, NC
Project Type:	Active Eligible
Project ID:	20072-16-056
Project ID:	20072-16-56
BF Manager:	Tracy Wahl
BF Acreage:	15.29
Status Date:	08/10/2017
X Coord:	-82.014639828
Y Coord:	35.680262885

Client Plot

Click here to access the North Carolina DEQ records for this facility:

A5 **DREXEL HERITAGE PLANT 2** **RCRA NonGen / NLR** **1000439233**
Target **70 BLUE RIDGE ST** **N/A**
Property **MARION, NC 28752**

Site 4 of 4 in cluster A

Actual: **1396 ft.**

RCRA Listings:

Date Form Received by Agency:	20050712
Handler Name:	DREXEL HERITAGE PLANT 2
Handler Address:	70 BLUE RIDGE ST
Handler City,State,Zip:	MARION, NC 28752
EPA ID:	NCD097368294
Contact Name:	STANLEY B CARTER
Contact Address:	E. FLEMING DR
Contact City,State,Zip:	MORGANTON, NC 28655
Contact Telephone:	828-438-5604
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	04
Land Type:	Municipal
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	E
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	E. FLEMING DR
Mailing City,State,Zip:	MORGANTON, NC 28655
Owner Name:	HDM FURNITURE INDUSTRIES INC
Owner Type:	Private
Operator Name:	WESTWOOD NC11 LLC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No

Client Plot

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: NN
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150414
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: DREXEL HERITAGE
Legal Status: Municipal
Date Became Current: 20040210
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HDM FURNITURE INDUSTRIES INC
Legal Status: Private
Date Became Current: 20011228
Date Ended Current: Not reported
Owner/Operator Address: 101 S HENLEY RD.
Owner/Operator City,State,Zip: ST LOUIS, MO 63105
Owner/Operator Telephone: 314-863-1100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: WESTWOOD NC II LLC
Legal Status: Private

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Date Became Current: 20040607
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: MARION, NC
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HDM FURNITURE INDUSTRIES INC
Legal Status: Private
Date Became Current: 20011228
Date Ended Current: Not reported
Owner/Operator Address: 101 S HENLEY RD.
Owner/Operator City,State,Zip: ST LOUIS, MO 63105
Owner/Operator Telephone: 314-863-1100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DREXEL HERITAGE
Legal Status: Municipal
Date Became Current: 20040210
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: WESTWOOD NC11 LLC
Legal Status: Private
Date Became Current: 20040607
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: MARION, NC
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19981110
Handler Name: DREXEL HERITAGE PLT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Electronic Manifest Broker: Not reported

Receive Date: 20020117
Handler Name: DREXEL HERITAGE PLT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050712
Handler Name: DREXEL HERITAGE PLANT 2
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900219
Handler Name: DREXEL HERITAGE FURNITURE PLANT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920320
Handler Name: DREXEL HERITAGE PLT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940224
Handler Name: DREXEL HERITAGE PLT #2
Federal Waste Generator Description: Large Quantity Generator

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960213
Handler Name: DREXEL HERITAGE PLT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19981113
Handler Name: DREXEL HERITAGE PLT. 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000224
Handler Name: DREXEL HERITAGE PLT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020314
Handler Name: DREXEL HERITAGE PLANT 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040210
Handler Name: DREXEL HERITAGE PLT. 2
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 3219
NAICS Description: OTHER WOOD PRODUCT MANUFACTURING

NAICS Code: 337122
NAICS Description: NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19890317
Actual Return to Compliance Date: 19920521
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19890412
Enforcement Identifier: 005
Date of Enforcement Action: 19890312
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19890124
Actual Return to Compliance Date: 19890301
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19890220
Enforcement Identifier: 004
Date of Enforcement Action: 19890210
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19840614
Actual Return to Compliance Date: 19840809
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19840720
Enforcement Identifier: 001
Date of Enforcement Action: 19840627
Enforcement Responsible Agency: State

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19880119
Actual Return to Compliance Date: 19880216
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19880216
Enforcement Identifier: 003
Date of Enforcement Action: 19880119
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 19930913
Actual Return to Compliance Date: 19931110
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19931015
Enforcement Identifier: 013
Date of Enforcement Action: 19930913
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC061
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19930913
Actual Return to Compliance Date: 19931110
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19931015
Enforcement Identifier: 013
Date of Enforcement Action: 19930913
Enforcement Responsible Agency: State

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC061
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 19930913
Actual Return to Compliance Date: 19931110
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19931015
Enforcement Identifier: 013
Date of Enforcement Action: 19930913
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC061
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19930913
Actual Return to Compliance Date: 19931110
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19931015
Enforcement Identifier: 013
Date of Enforcement Action: 19930913
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC061
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850221
Actual Return to Compliance Date: 19850516
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19850318
Enforcement Identifier: 002
Date of Enforcement Action: 19850306
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19971202
Actual Return to Compliance Date: 19980126
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19980105
Enforcement Identifier: 017
Date of Enforcement Action: 19971204
Enforcement Responsible Agency: State
Enforcement Docket Number: 98-036
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC025
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19850221
Actual Return to Compliance Date: 19850516
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19850318
Enforcement Identifier: 002
Date of Enforcement Action: 19850306
Enforcement Responsible Agency: State

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19910911
Actual Return to Compliance Date: 19920521
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19911020
Enforcement Identifier: 012
Date of Enforcement Action: 19910911
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC063
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19890317
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19920521
Scheduled Compliance Date: 19890412
Date of Request: Not reported
Date Response Received: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19890124
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19890301
Scheduled Compliance Date: 19890220
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19840614
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19840809
Scheduled Compliance Date: 19840720
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19880119
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19880216
Scheduled Compliance Date: 19880216
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19930913
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19931110
Scheduled Compliance Date: 19931015
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19930913
Evaluation Responsible Agency: State

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19931110
Scheduled Compliance Date: 19931015
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19931110
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19931110
Scheduled Compliance Date: 19931015
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19931110
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19931110
Scheduled Compliance Date: 19931015
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19920717
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19940928
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19941209
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC063
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19870205
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19840809
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19850221
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19850516
Scheduled Compliance Date: 19850318
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Evaluation Date: 19890301
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20030723
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC030
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19980126
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC025
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19940811
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC063
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19910911
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC063

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20010509
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC030
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19900418
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19880216
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19971202
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC025
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19980126
Scheduled Compliance Date: 19980105
Date of Request: Not reported
Date Response Received: Not reported

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19850221
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19850516
Scheduled Compliance Date: 19850318
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19920521
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19920521
Scheduled Compliance Date: 19911020
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19941209
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC063
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19920716
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19910716
Evaluation Responsible Agency: State

DREXEL HERITAGE PLANT 2 (Continued) **1000439233**

Found Violation: No
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: NCLK
Evaluation Responsible Sub-Organization: 02
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19850516
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

B6 **DREXEL HERITAGE FURNISHINGS (PLT 2 DIV CHAMPION)** **AST** **A100187436**
Target **361 BLUE RIDGE ST** **N/A**
Property **MARION, NC 28752**

Site 2 of 3 in cluster B

Actual: AST:
1396 ft.
Name: DREXEL HERITAGE FURNISHINGS (PLT 2 DIV CHAMPION)
Address: 361 BLUE RIDGE ST
City,State,Zip: MARION, NC 28752
Client Plot Facility Id: 56009
Registration Number: 56030009
Certificate Number: Not reported
Status Change: Not reported
Date Change: Not reported
Date Application Received: Not reported
Owner Name: Not reported
Facility Phone: Not reported
Coordinate Source: Not reported
Certificate of Registration Issued: Not reported
Lat/Long: Not reported

B7 **DREXEL HERITAGE #2-#5 FUEL OIL** **IMD** **S103131365**
DREXEL HERITAGE PLANT NO. 2 **N/A**
< 1/8 **MARION, NC**
1 ft.

Site 3 of 3 in cluster B

Relative: IMD:
Higher

Actual:
1400 ft.

Facility ID:	12972
Name:	DREXEL HERITAGE #2-#5 FUEL OIL
Address:	DREXEL HERITAGE PLANT NO. 2
City,State,Zip:	MARION, NC
Date Occurred:	2/4/1994
Submit Date:	11/23/1994
Incident Desc:	#5 FUEL OIL GELATINIZED IN UST; REMOVED, MIXED WITH SAWDUST AND PLACED IN TRENCHES LINED WITH POLYETHYLENE. SOIL SAMPLES SHOWED CONTAM. NEXT TO DISPOSAL AREA. C
Operator:	CARTER, STANLEY
UST ID:	Not reported
Incident ID:	Not reported
Initials of UST Regional Contact:	Not reported
Regional Office:	Not reported
Responsible Party/Company Name:	Not reported
Ownership:	5
Responsible Party Contact Name:	Not reported
Operation:	7
Responsible Party Mailing Address:	Not reported
Responsible Party City,State,Zip:	Not reported
Ownership:	Federal
Operation Type:	Mining
Responsible Party County:	Not reported
Source of Contamination:	Not reported
Source:	2
Type:	5
Location:	Not reported
Petroleum Type:	Not reported
Date Incident Reported:	Not reported
Whether Tank is Commercial or Non Commercial:	Not reported
Site Priority:	Not reported
Whether Tank is Regulated:	Not reported
Priority Update:	Not reported
Notice of Regulatory Requirement:	Not reported
Wells Affected:	N
Notice of Violation:	Not reported
Phase 1 or Phase 2:	Not reported
Num Affected:	0
Site Priority:	Not reported
Type:	OTHER PETROLEUM PROD.
Location:	Not reported
Current Risk Condition:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
Initial reported risk of incident (never changes):	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Intermediate Condition Present:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Use of Land, Industrial:	Not reported
Corrective Action Plan Selected - up to 5:	Not reported

DREXEL HERITAGE #2-#5 FUEL OIL (Continued) **S103131365**

RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

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8 **DREXEL HERITAGE #2-#5 FUEL OIL** **LAST** **S110628594**
DREXEL HERITAGE #2 **N/A**
< 1/8 **MARION, NC 28752**
1 ft.

Relative: Higher
Actual: 1399 ft.

LAST:
Name: DREXEL HERITAGE #2-#5 FUEL OIL
Address: DREXEL HERITAGE #2
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
UST Number: AS-88134
Incident Number: 12972
Contamination Type: SL
Source Type: 14
Product Type: P
Date Reported: 04/04/1994
Date Occur: 04/04/1994
Cleanup: Not reported
Closure Request: Not reported
Close Out: 05/22/1995
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: Not reported
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0

DREXEL HERITAGE #2-#5 FUEL OIL (Continued) **S110628594**

Current Status:	A
RBCA GW:	Not reported
PETOPT:	4
RPL:	False
CD Num:	300
Reel Num:	0
RPOW:	True
RPOP:	False
Error Flag:	0
Error Code:	N
Valid:	False
Lat/Long:	Not reported
Lat/Long Decimal:	35.67944 -82.01446
Testlat:	Not reported
Regional Officer Project Mgr:	dme
Region:	ASH
Company:	DREXEL HERITAGE
Contact Person:	STANLEY CARTER
Telephone:	8284385604
RP Address:	21 E. FLEMING ST
RP City,St,Zip:	MORGANTON, NC
RP County:	Not reported
Comments:	#5 FUEL OIL GELATINIZED IN UST; REMOVED, MIXED WITH SAWDUST AND PLACED IN TRENCHES LINED WITH POLYETHYLENE. SOIL SAMPLES SHOWED CONTAM. NEXT TO DISPOSAL AREA. CONTM. SOIL REMOVED. MW IN SOIL AND GW SAMPLES BELOW DETECTION LIMITS. INCIDENT CLOSED.
5 Min Quad:	Not reported
Last Modified:	5/22/1995
Incident Phase:	**CO**
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

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9 **WILLWEAR HOSIERY MFG. CO.,INC.** **LAST** **S103131296**
WNW **360 BLUE RIDGE ST.** **IMD** **N/A**
< 1/8 **MARION, NC 28752**
0.006 mi.
34 ft.

Relative:
Higher

Actual:
1399 ft.

LAST:

Name:	WILLWEAR HOSIERY MFG. CO.,INC.
Address:	360 BLUE RIDGE ST.
City,State,Zip:	MARION, NC 28752
Facility ID:	Not reported
UST Number:	AS-11940
Incident Number:	11940
Contamination Type:	SL
Source Type:	14
Product Type:	P
Date Reported:	01/24/1994
Date Occur:	01/24/1994

WILLWEAR HOSIERY MFG. CO.,INC. (Continued) **S103131296**

Cleanup: 01/24/1994
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: Not reported
Risk Classification: H
Risk Class Based On Review: H
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 30
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: Yes
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: C
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long: Not reported
Lat/Long Decimal: 35.68097 -82.01476
Testlat: Not reported
Regional Officer Project Mgr: BRE
Region: ASH
Company: WILLWEAR HOSIERY MFG. CO.INC.
Contact Person: TAMMY COPE
Telephone: Not reported
RP Address: 360 BLUE RIDGE ST.
RP City,St,Zip: MARION, NC
RP County: Not reported
Comments: AST LEAKED AS BEING FILLED FROM UST. CONTAMINATED SOILS EXCAVATED. OIL PERIODICALLY DISCHARGING THROUGH STORM DRAIN ONTO ADJACENT PROPERTY. 1/4/22 Sent new Owner notification, also let Alpha Environmental (former consultant, and property owner) about the notification; provided the following synopsis: - January 1994, an 8,000-gallon UST was automatically filling a 550-gallon fuel oil AST which serviced the boiler room. An automatic shut-off valve stuck open releasing 2,000-gallons of fuel oil in a gravel parking area (overland flow). - The 8,000-gallon UST was removed and soil was excavated across the release area. - Three groundwater monitoring well (MW-1, -2, -3) were installed. - Willwear Hosiery filed for bankruptcy when Alpha was doing the CSA; Alpha was awarded the property due to outstanding debits. - Alpha sold the property to a

WILLWEAR HOSIERY MFG. CO.,INC. (Continued) **S103131296**

3rd party in ~2004, which was then sold in ~ 2016 to the current owners.

5 Min Quad: Not reported

PIRF:

Facility Id: 11940
Date Occurred: Not reported
Date Reported: Not reported
Description Of Incident: Not reported
Owner/Operator: Not reported
Ownership: 5
Operation Type: 7
Type: Not reported
Location: Not reported
Site Priority: 30B
Priority Update: Not reported
Wells Affected Y/N: N
Wells Affected Number: 0
Samples Taken By: Not reported
Samples Include: Not reported
7#5 Min Quad: Not reported
5 Min Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Cause: Not reported
Source: Not reported
Source Type: 1

Last Modified: 11/28/2005
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

IMD:

Facility ID: 11940
Name: WILLWEAR HOSIERY MFG. CO.,INC.
Address: 360 BLUE RIDGE ST.
City,State,Zip: MARION, NC
Date Occurred: 1/21/1994
Submit Date: 4/4/1994
Incident Desc: AST LEAKED AS BEING FILLED FROM UST. CONTAMINATED SOILS EXCAVATED. OIL PERIODICALLY DISCHARGING THROUGH STORM DRAIN ONTO ADJACENT PROPERTY.
Operator: COPE, TAMMY
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 5

WILLWEAR HOSIERY MFG. CO.,INC. (Continued) **S103131296**

Responsible Party Contact Name: Not reported
Operation: 7
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Federal
Operation Type: Mining
Responsible Party County: Not reported
Source of Contamination: Not reported
Source: 14
Type: 4
Location: 1
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: Not reported
Whether Tank is Regulated: Not reported
Priority Update: Not reported
Notice of Regulatory Requirement: Not reported
Wells Affected: N
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: HEATING OIL
Location: Facility
Current Risk Condition: Not reported
Sampled By: 3
Samples Include: 1
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: L80P
Intermediate Condition Present: Not reported
Latitude: Not reported
Longitude: Not reported
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

C10 **KWIK AS A WINK** **UST** **U001202236**
ENE **315 W HENDERSON ST** **Financial Assurance** **N/A**
< 1/8 **MARION, NC 28752**
0.014 mi.
75 ft. **Site 1 of 3 in cluster C**

Relative: **Lower**

Actual: **1390 ft.**

UST:

Name:	KWIK AS A WINK
Address:	315 W HENDERSON ST
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000025221
Contact:	CASON COMPANIES, INC.
Contact Address1:	203 WEST KING STREET
Contact Address2:	Not reported
Contact City/State/Zip:	EAST FLAT ROCK, NC 28726-2316
FIPS County Desc:	McDowell
Latitude:	35.68006
Longitude:	-82.0115

Click here to access the North Carolina DEQ records for this facility:

Tank Id:	1
Tank Status:	Not reported
Installed Date:	08/05/1982
Perm Close Date:	09/04/2013
Product Name:	Gasoline, Gas Mix
Tank Capacity:	6000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	0
Commercial:	Yes
Regulated:	Yes
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported
Decode for TCONS_KEY:	Single Wall Steel
Decode for PCONS_KEY:	Single Wall Steel
Decode for PSYS_KEY:	European Suction

Tank Id:	2
Tank Status:	Not reported
Installed Date:	08/05/1982
Perm Close Date:	09/04/2013
Product Name:	Gasoline, Gas Mix
Tank Capacity:	6000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	0
Commercial:	Yes
Regulated:	Yes
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported

KWIK AS A WINK (Continued) **U001202236**

Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: European Suction

Tank Id: 3
Tank Status: Not reported
Installed Date: 08/05/1982
Perm Close Date: 09/04/2013
Product Name: Gasoline, Gas Mix
Tank Capacity: 6000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: European Suction

Tank Id: 4
Tank Status: Not reported
Installed Date: 08/05/1982
Perm Close Date: 09/04/2013
Product Name: Gasoline, Gas Mix
Tank Capacity: 6000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: European Suction

NC Financial Assurance 1:
Name: KWIK AS A WINK
Address: 315 W HENDERSON ST
City,State,Zip: MARION, NC 28752
Facility ID: 00-0-0000025221
Region: 1
Financial Responsibility Desc: Self-Insurance
Financial Responsibility Name: Cason Companies, Inc.
Started Date: 05/01/2013
Ended Date: 04/30/2014

C11 **WEST HENDERSON MARKET** **EDR Hist Auto** **1021096476**
ENE **315 WEST HENDERSON** **N/A**
< 1/8 **MARION, NC 28752**
0.014 mi.
75 ft. **Site 2 of 3 in cluster C**

Relative: EDR Hist Auto:
Lower

Actual: Year: Name: / Type:
1390 ft. 1982: WEST HENDERSON MARKET / Grocery Stores

C12 **MARION FOOD MART** **LUST** **S118755655**
ENE **275 WEST HENDERSON STREET** **N/A**
< 1/8 **MARION, NC 28752**
0.024 mi.
129 ft. **Site 3 of 3 in cluster C**

Relative: LUST:
Lower

Actual:
1393 ft.

Name:	MARION FOOD MART
Address:	275 WEST HENDERSON STREET
City,State,Zip:	MARION, NC 28752
Facility ID:	00-0-000
UST Number:	AS-1442
Incident Number:	15381
Source Type:	3
Date Reported:	04/18/1996
Closure Request:	Not reported
Close Out:	Not reported
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	Not reported
Commercial/NonCommercial UST Site:	C
Risk Classification:	L
Risk Class Based On Review:	I
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	80 E
Phase Of LSA Req:	Not reported
Site Risk Reason:	F
Land Use:	IND
MTBE:	Not reported
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	5
Current Status:	C
RBCA GW:	Not reported
PETOPT:	3
RPL:	False
CD Num:	0
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	DPM
Company:	GAY KENNERLY
Telephone:	8282532321

MARION FOOD MART (Continued) **S118755655**

5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-1442
Facility Id: 15381
Date Occurred: 4/18/1996
Date Reported: 5/6/1996
Owner/Operator: GAY KENNERLY
Ownership: 4
Operation Type: 6
Type: 3
Location: 1
Priority Update: 4/15/1998
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 5
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: L80U
Source Code: Pirf
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 15381
Last Modified: 7/9/2008
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

D13 **MCDOWELL COUNTY MILLWORKS** **LUST** **S118755986**
SSE **4 OLD WEST HENDERSON STREET** **N/A**
< 1/8 **MARION, NC 28752**
0.079 mi.
418 ft. **Site 1 of 4 in cluster D**

Relative: LUST:
Lower Name: MCDOWELL COUNTY MILLWORKS
Address: 4 OLD WEST HENDERSON STREET
Actual: City,State,Zip: MARION, NC 287527889
1384 ft. Facility ID: Not reported
UST Number: AS-3963
Incident Number: 41072
Source Type: 3
Date Reported: 12/27/2012
Closure Request: Not reported
Close Out: 03/09/2015

MCDOWELL COUNTY MILLWORKS (Continued) **S118755986**

Level Of Soil Cleanup Achieved: S1
Of Supply Wells: 0
Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: 0
MTBE1: U
Flag: 1
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 1
Current Status: A
RBCA GW: G1
PETOPT: 3
RPL: False
CD Num: 660
Reel Num: 0
RPOW: True
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: DPM
Company: DAVID STOUT
Telephone: Not reported
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-3963
Facility Id: 41072
Date Occurred: 12/21/2012
Date Reported: 12/27/2012
Owner/Operator: Not reported
Ownership: 4
Operation Type: 6
Type: 3
Location: 1
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 3
Cause: 3
Source: A
UST Number: P

MCDOWELL COUNTY MILLWORKS (Continued) **S118755986**

LUST:
Incident Number: 41072
Last Modified: 3/9/2015
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

D14 **MCDOWELL COUNTY MILLWORK, LLC** **RCRA NonGen / NLR** **1000441440**
SSE **4 OLD WEST HENDERSON STREET** **US AIRS** **N/A**
< 1/8 **MARION, NC 28752** **ICIS**
0.079 mi.
418 ft. **Site 2 of 4 in cluster D**

Relative: **Lower**

Actual: **1384 ft.**

RCRA Listings:
Date Form Received by Agency: 20100112
Handler Name: BROYHILL FURNITURE MARION PLANT
Handler Address: NO 4, OLD W HENDERSON ST
Handler City,State,Zip: MARION, NC 28752
EPA ID: NCD051325413
Contact Name: DAVID E STOUT
Contact Address: BROYHILL PARK
Contact City,State,Zip: LENOIR, NC 28633
Contact Telephone: 838-758-3374
Contact Fax: Not reported
Contact Email: DSTOUT@FURNITUREBRANDS.COM
Contact Title: Not reported
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: E
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: BROYHILL PARK
Mailing City,State,Zip: LENOIR, NC 28633
Owner Name: FURNITURE BRANDS
Owner Type: Private
Operator Name: BROYHILL FURNITURE INDUSTRIES INC
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: NN
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150414
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: BROYHILL FURNITURE INDUSTRIES INC

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Legal Status: Private
Date Became Current: 19410601
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: LENOIR, NC 28633
Owner/Operator Telephone: 828-758-3374
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: INTERCO INC.
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BROYHILL FURNITURE INDUSTRIES INC
Legal Status: Private
Date Became Current: 19410101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: LENOIR, NC 28633
Owner/Operator Telephone: 828-758-3374
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BROYHILL FURNITURE INDUSTRIES INC
Legal Status: Private
Date Became Current: 19410101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: LENOIR, NC 28633
Owner/Operator Telephone: 828-758-3374
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FURNITURE BRANDS
Legal Status: Private
Date Became Current: 19810101
Date Ended Current: Not reported
Owner/Operator Address: ONE BROYHILL PARK
Owner/Operator City,State,Zip: LENOIR, NC 28633
Owner/Operator Telephone: 828-758-3374
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Historic Generators:
Receive Date: 19900919
Handler Name: BROYHILL FURNITURE MARION PLT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20041116
Handler Name: BROYHILL FURNITURE MARION PLANT
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20100112
Handler Name: BROYHILL FURNITURE MARION PLANT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900301
Handler Name: BROYHILL FURNITURE MARION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 337121
NAICS Description: UPHOLSTERED HOUSEHOLD FURNITURE MANUFACTURING

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

NAICS Code: 337122
NAICS Description: NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19900326
Actual Return to Compliance Date: 19900502
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900430
Enforcement Identifier: 001
Date of Enforcement Action: 19900326
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20050510
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC030
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19900502
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19900326
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19900502

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Scheduled Compliance Date: 19900430
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19980708
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC025
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19950214
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

ICIS:
Enforcement Action ID: NC000A0000371110014990005
FRS ID: 110012707302
Action Name: MCDOWELL COUNTY MILLWORK LLC 371110014990005
Facility Name: MCDOWELL COUNTY MILLWORK, LLC
Facility Address: 4 OLD WEST HENDERSON STREET
MARION, NC 28752
Enforcement Action Type: Administrative Order
Facility County: MCDOWELL
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2511
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 35.678397
Longitude in Decimal Degrees: -82.011517
Permit Type Desc: Not reported
Program System Acronym: NC0000003705600149
Facility NAICS Code: 337122
Tribal Land Code: Not reported

Enforcement Action ID: NC000A0000371110014900067
FRS ID: 110012707302
Action Name: MCDOWELL COUNTY MILLWORK LLC 371110014900067

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Facility Name: MCDOWELL COUNTY MILLWORK, LLC
Facility Address: 4 OLD WEST HENDERSON STREET
MARION, NC 28752
Enforcement Action Type: Notice of Violation
Facility County: MCDOWELL
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2511
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 35.678397
Longitude in Decimal Degrees: -82.011517
Permit Type Desc: Not reported
Program System Acronym: NC0000003705600149
Facility NAICS Code: 337122
Tribal Land Code: Not reported

Enforcement Action ID: NC000A0000371110014900043
FRS ID: 110012707302
Action Name: MCDOWELL COUNTY MILLWORK LLC 371110014900043
Facility Name: MCDOWELL COUNTY MILLWORK, LLC
Facility Address: 4 OLD WEST HENDERSON STREET
MARION, NC 28752
Enforcement Action Type: Notice of Violation
Facility County: MCDOWELL
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2511
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 35.678397
Longitude in Decimal Degrees: -82.011517
Permit Type Desc: Not reported
Program System Acronym: NC0000003705600149
Facility NAICS Code: 337122
Tribal Land Code: Not reported

Enforcement Action ID: NC000A0000371110014900040
FRS ID: 110012707302
Action Name: MCDOWELL COUNTY MILLWORK LLC 371110014900040
Facility Name: MCDOWELL COUNTY MILLWORK, LLC
Facility Address: 4 OLD WEST HENDERSON STREET
MARION, NC 28752
Enforcement Action Type: Notice of Violation
Facility County: MCDOWELL
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2511
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 35.678397
Longitude in Decimal Degrees: -82.011517
Permit Type Desc: Not reported
Program System Acronym: NC0000003705600149
Facility NAICS Code: 337122
Tribal Land Code: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Enforcement Action ID: NC000A0000370560014900073
FRS ID: 110012707302
Action Name: Not reported
Facility Name: MCDOWELL COUNTY MILLWORK, LLC
Facility Address: 4 OLD WEST HENDERSON STREET
MARION, NC 28752
Enforcement Action Type: Notice of Violation
Facility County: MCDOWELL
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2511
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 35.678397
Longitude in Decimal Degrees: -82.011517
Permit Type Desc: Not reported
Program System Acronym: NC0000003705600149
Facility NAICS Code: 337122
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1000441440
Region Code: 04
County Code: NC111
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
D and B Number: Not reported
Facility Site Name: MCDOWELL COUNTY MILLWORK, LLC
Primary SIC Code: 2511
NAICS Code: 337122
Default Air Classification Code: SMI
Facility Type of Ownership Code: POF
Air CMS Category Code: SMI
HPV Status: Not reported

US AIRS (AFS):
Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: 40 CFR Part 63 Area Sources
Activity Date: 2015-01-28 00:00:00
Activity Status Date: 2015-11-02 11:01:38
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: 40 CFR Part 63 Area Sources
Activity Date: 2016-02-11 00:00:00
Activity Status Date: 2016-02-24 11:55:44

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: 40 CFR Part 63 Area Sources
Activity Date: 2016-04-05 00:00:00
Activity Status Date: 2016-04-09 00:44:05
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: 40 CFR Part 63 Area Sources
Activity Date: 2011-12-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: 40 CFR Part 63 Area Sources
Activity Date: 2013-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: 40 CFR Part 63 Area Sources
Activity Date: 2013-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Air Program: MACT Standards (40 CFR Part 63)
Activity Date: Not reported
Activity Status Date: 1999-05-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 1998-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 1999-09-19 00:00:00
Activity Status Date: 1999-09-19 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1999-05-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 04
Programmatic ID: AIR NC0000003705600149

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-01-28 00:00:00
Activity Status Date: 2015-11-02 11:01:38
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-02-11 00:00:00
Activity Status Date: 2016-02-24 11:55:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2016-04-05 00:00:00
Activity Status Date: 2016-04-09 00:44:05
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-12-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-01-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-01-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-01-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-01-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Date: 1990-01-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-01-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-01-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-02-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-04-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-01-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-04-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Date: 2004-01-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-01-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-01-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-03-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-12-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-01-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-05-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-12-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Activity Date: 2013-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-09-19 00:00:00
Activity Status Date: 1999-09-19 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-10-06 00:00:00
Activity Status Date: 1997-10-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-29 00:00:00
Activity Status Date: 1998-09-29 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-03-12 00:00:00
Activity Status Date: 2007-03-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 04
Programmatic ID: AIR NC0000003705600149
Facility Registry ID: 110012707302

MCDOWELL COUNTY MILLWORK, LLC (Continued) **1000441440**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-12 00:00:00
Activity Status Date: 2009-03-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

D15 **BROYHILL-MARION** **LAST** **S118755511**
SSE **4 OLD WEST HENDERSON STREET** **INST CONTROL** **N/A**
< 1/8 **MARION, NC 28753**
0.082 mi.
434 ft. **Site 3 of 4 in cluster D**

Relative: LAST:
Lower
Name: BROYHILL-MARION
Actual: Address: 4 OLD WEST HENDERSON STREET
1384 ft. City,State,Zip: MARION, NC 28753
Facility ID: Not reported
UST Number: AS-87946
Incident Number: 87946
Contamination Type: SL
Source Type: 17
Product Type: P
Date Reported: 10/10/2006
Date Occur: 10/10/2006
Cleanup: Not reported
Closure Request: Not reported
Close Out: 05/24/2017
Level Of Soil Cleanup Achieved: S2
Tank Regulated Status: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: Not reported
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: IND
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: 02/09/2016
Release Detection: 0
Current Status: C
RBCA GW: G1
PETOPT: 5
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False

BROYHILL-MARION (Continued) **S118755511**

Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long: Not reported
Lat/Long Decimal: 35.67800 -82.01322
Testlat: Not reported
Regional Officer Project Mgr: DPM
Region: ASH
Company: Broyhill Furniture Industries,
Contact Person: David Stout
Telephone: Not reported
RP Address: One Broyhill Park
RP City,St,Zip: Lenoir, NC 28645
RP County: Not reported
Comments: Phase II ESA found soil contamination in two areas - near a compressor condensate blow down area, and a new and used gear oil storage building. Soils have been excavated at the compressor condensate area to extent feasible, but area around storage building needs to be assessed and excavated.Site ranked as "low risk" on March 10, 2008.
5 Min Quad: Not reported

PIRF:
Facility Id: 87946
Date Occurred: Not reported
Date Reported: Not reported
Description Of Incident: Not reported
Owner/Operator: Not reported
Ownership: 5
Operation Type: 7
Type: Not reported
Location: Not reported
Site Priority: NOD
Priority Update: Not reported
Wells Affected Y/N: Not reported
Wells Affected Number: Not reported
Samples Taken By: Not reported
Samples Include: Not reported
7#5 Min Quad: Not reported
5 Min Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Cause: Not reported
Source: Not reported
Source Type: 1

Last Modified: 5/24/2017
Incident Phase: **CO**
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

BROYHILL-MARION (Continued) **S118755511**

INST CONTROL:

Name:	BROYHILL-MARION
Address:	4 OLD WEST HENDERSON STREET
City,State,Zip:	MARION, NC
Project Number:	AS-87946
Object ID:	Not reported
DWM Contact:	Asheville Regional Office (828) 296-4500
DWM Program:	Underground Storage Tank Section
Project Status:	No Further Action
COC:	Multi COC
Contamination Source:	AST System
Received Date:	2/8/2016
Restricted Media:	Multi-Media
Allowed Use:	Media Restrictions Only
Certification:	None
Plant Reception Date:	Not reported
Instrument Status:	Effective
Deed BK:	Not reported
Deed PG:	Not reported
Plat BK:	Not reported
Plat PG:	Not reported
Instrument:	Notice and Restriction
Deed:	Not reported
Deed Date:	Recorded 2-8-2016
Plat:	Not reported
Plat Date:	Not reported
X Coord:	1105267.6918
Y Coord:	715271.30751

E16 **ETTA PACKAGING INC.** **UST U001187842**
NE **21 BURGIN ST.** **LUST N/A**
< 1/8 **MARION, NC 27852**
0.087 mi.
462 ft. **Site 1 of 3 in cluster E**

Relative: Higher

Actual: 1399 ft.

LUST:

Name:	LAIRD PACKAGING
Address:	21 BURGIN ST
City,State,Zip:	MARION, NC 287523903
Facility ID:	0-002774
UST Number:	AS-1714
Incident Number:	19263
Source Type:	3
Date Reported:	11/01/1998
Closure Request:	Not reported
Close Out:	09/07/1999
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	N
Risk Classification:	L
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported

ETTA PACKAGING INC. (Continued) **U001187842**

MTBE: 0
MTBE1: U
Flag: 1
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 9
Current Status: C
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: JCA
Company: LAIRD PACKAGING
Telephone: Not reported
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-1714
Facility Id: 19263
Date Occurred: 9/15/1998
Date Reported: 11/18/1998
Owner/Operator: WILLIAM HARRISON
Ownership: 4
Operation Type: 6
Type: 4
Location: 1
Priority Update: 4/12/1999
Wells Affected Y/N: Not reported
Samples Include: Not reported
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Min_Soil
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 19263
Last Modified: 9/24/1999
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported

ETTA PACKAGING INC. (Continued) **U001187842**

RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 9/7/1999

UST:
Name: ETTA PACKAGING INC.
Address: 21 BURGIN ST.
City,State,Zip: MARION, NC 27852
Facility Id: 00-0-0000002774
Contact: ETTA PACKAGING, INC.
Contact Address1: 21 BURGIN ST.
Contact Address2: Not reported
Contact City/State/Zip: MARION, NC 27852
FIPS County Desc: McDowell
Latitude: 35.68266
Longitude: -82.0104

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 01/01/1964
Perm Close Date: 04/01/1986
Product Name: Gasoline, Gas Mix
Tank Capacity: 1000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

E17 **ROCK TENN COMPANY** **RCRA-VSQG** **1000869433**
NE **33 BURGIN ST** **IMD** **N/A**
< 1/8 **MARION, NC 28752**
0.088 mi.
467 ft. **Site 2 of 3 in cluster E**

Relative:
Higher

Actual:
1399 ft.

RCRA Listings:
Date Form Received by Agency: 20050726
Handler Name: ROCK TENN COMPANY
Handler Address: 33 BURGIN ST
Handler City,State,Zip: MARION, NC 28752
EPA ID: NCD986232676
Contact Name: KEVIN R AUSTIN
Contact Address: BURGIN ST
Contact City,State,Zip: MARION, NC 28752
Contact Telephone: 828-652-5511 111

ROCK TENN COMPANY (Continued) **1000869433**

Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Non-Notifier: E
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: BURGIN ST
Mailing City,State,Zip: MARION, NC 28752
Owner Name: GULF STATES PAPER CORPORATION
Owner Type: Private
Operator Name: ROCK-TENN PACKAGING & PAPERBOADR LLC
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: NN
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A

ROCK TENN COMPANY (Continued) **1000869433**

Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150414
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: GULF STATES PAPER CORPORATION
Legal Status: Private

ROCK TENN COMPANY (Continued) **1000869433**

Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1400 RIVER RD NE
Owner/Operator City,State,Zip: TUSCALOOSA, AL 35404-1002
Owner/Operator Telephone: 205-562-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROCK-TENN PACKAGING & PAPERBOADR LLC
Legal Status: Private
Date Became Current: 20050606
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: MARION, NC 28752
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GULF STATES PAPER CORPORATION
Legal Status: Private
Date Became Current: 19920101
Date Ended Current: 20050606
Owner/Operator Address: 1400 RIVER RD NE
Owner/Operator City,State,Zip: TUSCALOOSA, AL 35404-1002
Owner/Operator Telephone: 205-562-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROCK-TENN PACKAGING & PAPERBOARD LLC
Legal Status: Private
Date Became Current: 20050606
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: NORCROSS, GA 30071
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GULF STATES PAPER CORPORATION
Legal Status: Private
Date Became Current: 17760101
Date Ended Current: Not reported
Owner/Operator Address: 1400 RIVER RD NE
Owner/Operator City,State,Zip: TUSCALOOSA, AL 35404-1002
Owner/Operator Telephone: 205-562-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

ROCK TENN COMPANY (Continued) **1000869433**

Owner/Operator Indicator: Owner
Owner/Operator Name: ROCK-TENN PACKAGING & PAPERBOARD LLC
Legal Status: Private
Date Became Current: 20050606
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: NORCROSS, GA 30071
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GULF STATES PAPER CORPORATION
Legal Status: Private
Date Became Current: 17760101
Date Ended Current: Not reported
Owner/Operator Address: 1400 RIVER RD NE
Owner/Operator City,State,Zip: TUSCALOOSA, AL 35404-1002
Owner/Operator Telephone: 205-562-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROCK-TENN PACKAGING & PAPERBOARD LLC
Legal Status: Private
Date Became Current: 20050606
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: NORCROSS, GA 30071
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20030825
Handler Name: RESOLUTION PACKAGING
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19991110
Handler Name: RESOLUTION PACKAGING
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

ROCK TENN COMPANY (Continued) **1000869433**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001013
Handler Name: RESOLUTION PACKAGING
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020813
Handler Name: RESOLUTION PACKAGING
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050726
Handler Name: ROCK TENN COMPANY
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 322212
NAICS Description: FOLDING PAPERBOARD BOX MANUFACTURING

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported

ROCK TENN COMPANY (Continued) **1000869433**

Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported

ROCK TENN COMPANY (Continued) **1000869433**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19941011
Actual Return to Compliance Date: 19950214
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19941202
Enforcement Identifier: 001
Date of Enforcement Action: 19941011
Enforcement Responsible Agency: State
Enforcement Docket Number: 95-021
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC061
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Specific - Boilers and Industrial Furnaces
Date Violation was Determined: 20010509
Actual Return to Compliance Date: 20010619
Return to Compliance Qualifier: Observed

ROCK TENN COMPANY (Continued) **1000869433**

Violation Responsible Agency: State
Scheduled Compliance Date: 20010618
Enforcement Identifier: 003
Date of Enforcement Action: 20010509
Enforcement Responsible Agency: State
Enforcement Docket Number: 2001-130
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC030
Enforcement Responsible Sub-Organization: 01
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19941011
Actual Return to Compliance Date: 19950214
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19941202
Enforcement Identifier: 001
Date of Enforcement Action: 19941011
Enforcement Responsible Agency: State
Enforcement Docket Number: 95-021
Enforcement Attorney: NC
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NC061
Enforcement Responsible Sub-Organization: 01

ROCK TENN COMPANY (Continued) **1000869433**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20010619
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC030
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19980701
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC025
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19950214
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19950214
Scheduled Compliance Date: 19941202
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20010509
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE

ROCK TENN COMPANY (Continued) **1000869433**

Evaluation Responsible Person Identifier: NC030
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 20010619
Scheduled Compliance Date: 20010618
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19941011
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: NC061
Evaluation Responsible Sub-Organization: 01
Actual Return to Compliance Date: 19950214
Scheduled Compliance Date: 19941202
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

IMD:
Facility ID: 19263
Name: LAIRD PACKAGING
Address: 21 BURGIN ST
City,State,Zip: MARION, NC
Date Occurred: 9/15/1998
Submit Date: 11/18/1998
Incident Desc: MINOR SOIL CONTAM. FROM UST. 82 PPM. DIESEL
Operator: WILLIAM HARRISON
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 6
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Commercial
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: E
Whether Tank is Regulated: Not reported
Priority Update: 4/12/1999
Notice of Regulatory Requirement: Not reported
Wells Affected: Not reported

ROCK TENN COMPANY (Continued) **1000869433**

Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: Not reported
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: Not reported
Samples Include: Not reported
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Intermediate Condition Present: Not reported
Latitude: Not reported
Longitude: Not reported
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 19263
Last Modified: 1999-09-24 00:00:00
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1999-09-07 00:00:00

D18 **MCDOWELL OIL CO.** **UST** **U001195469**
SSE **19 E WEST** **N/A**
< 1/8 **MARION, NC 28752**
0.098 mi.
515 ft. **Site 4 of 4 in cluster D**

Relative: UST:
Lower

Actual:
1387 ft.

Name:	MCDOWELL OIL CO.
Address:	19 E WEST
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000014784
Contact:	DAVID MCKINNEY & WIFE, MARILYN
Contact Address1:	HWY 19 E WEST
Contact Address2:	Not reported
Contact City/State/Zip:	MARION, NC 28752
FIPS County Desc:	McDowell
Latitude:	35.67775
Longitude:	-82.0132

Click here to access the North Carolina DEQ records for this facility:

Tank Id:	1
Tank Status:	Not reported
Installed Date:	05/03/1978
Perm Close Date:	06/30/1992
Product Name:	Gasoline, Gas Mix
Tank Capacity:	3000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	Yes
Regulated:	Yes
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported
Decode for TCONS_KEY:	Single Wall Steel
Decode for PCONS_KEY:	Single Wall Steel
Decode for PSYS_KEY:	Unknown

Tank Id:	2
Tank Status:	Not reported
Installed Date:	05/03/1978
Perm Close Date:	06/30/1992
Product Name:	Gasoline, Gas Mix
Tank Capacity:	3000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	Yes
Regulated:	Yes
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported

MCDOWELL OIL CO. (Continued) **U001195469**

Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

E19 **ROCK-TENN MARION FOLDING** **SHWS** **S108279759**
NE **33 BURGIN ST** **N/A**
< 1/8 **MARION, NC**
0.098 mi.
517 ft. **Site 3 of 3 in cluster E**

Relative: **Higher**
Actual: **1399 ft.**

SHWS:
Name: ROCK-TENN MARION FOLDING
Address: 33 BURGIN ST
City,State,Zip: MARION, NC
EPAID: NCD986232676
Lat/Longitude: 35.681924 / -82.011626
Geolocation Method: 69

Click here to access the North Carolina DEQ records for this facility:

F20 **MCDOWELL COUNTY MILLWORK** **SEMS-ARCHIVE** **1012043264**
ESE **426 WEST HENDERSON STREET** **N/A**
< 1/8 **MARION, NC 28752**
0.098 mi.
518 ft. **Site 1 of 4 in cluster F**

Relative: **Lower**
Actual: **1360 ft.**

SEMS Archive:
Site ID: 0410248
EPA ID: NCN000410248
Name: MCDOWELL COUNTY MILLWORK
Address: 426 WEST HENDERSON STREET
Address 2: Not reported
City,State,Zip: MARION, NC 28752
Cong District: Not reported
FIPS Code: 37111
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 04
Site ID: 0410248
EPA ID: NCN000410248
Site Name: MCDOWELL COUNTY MILLWORK
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2008-09-12 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 04
Site ID: 0410248

MCDOWELL COUNTY MILLWORK (Continued) **1012043264**

EPA ID: NCN000410248
Site Name: MCDOWELL COUNTY MILLWORK
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 2
Start Date: Not reported
Finish Date: 2008-09-30 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 04
Site ID: 0410248
EPA ID: NCN000410248
Site Name: MCDOWELL COUNTY MILLWORK
NPL: N
FF: N
OU: 00
Action Code: VU
Action Name: UNARCHIVE
SEQ: 1
Start Date: Not reported
Finish Date: 2008-09-29 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 04
Site ID: 0410248
EPA ID: NCN000410248
Site Name: MCDOWELL COUNTY MILLWORK
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 2008-09-12 04:00:00
Finish Date: 2008-09-12 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 04
Site ID: 0410248
EPA ID: NCN000410248
Site Name: MCDOWELL COUNTY MILLWORK
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 2008-09-12 04:00:00
Qual: N
Current Action Lead: St Perf

F21
ESE
< 1/8
0.098 mi.
518 ft.

HALL OIL CO
426 W HENDERSON ST
MARION, NC 28752

EDR Hist Auto **1020261577**
N/A

Site 2 of 4 in cluster F

Relative:
Lower

Actual:
1360 ft.

EDR Hist Auto:

Year:	Name: / Type:
1971:	HALL OIL CO / Gasoline Service Stations
1972:	HALL OIL CO / Gasoline Service Stations

F22
ESE
< 1/8
0.100 mi.
530 ft.

TEXACO FOODMART
435 W HENDERSON ST
MARION, NC 28752

EDR Hist Auto **1021673882**
N/A

Site 3 of 4 in cluster F

Relative:
Lower

Actual:
1360 ft.

EDR Hist Auto:

Year:	Name: / Type:
2005:	TEXACO FOODMART / Gasoline Service Stations, NEC
2006:	TEXACO FOODMART / Gasoline Service Stations, NEC

F23
ESE
< 1/8
0.106 mi.
562 ft.

BROYHILL FURNITURE IND, MARIO
436 W. HENDERSON ST.
MARION, NC 28752

UST **U003202391**
N/A

Site 4 of 4 in cluster F

Relative:
Lower

Actual:
1360 ft.

UST:

Name:	BROYHILL FURNITURE IND, MARIO
Address:	436 W. HENDERSON ST.
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000017088
Contact:	BROYHILL FURNITURE INDUST INC
Contact Address1:	BROYHILL PARK
Contact Address2:	Not reported
Contact City/State/Zip:	LENOIR, NC 28633
FIPS County Desc:	McDowell
Latitude:	35.67160
Longitude:	-82.0178

Click here to access the North Carolina DEQ records for this facility:

Tank Id:	1
Tank Status:	Not reported
Installed Date:	04/16/1976
Perm Close Date:	11/14/1988
Product Name:	Diesel
Tank Capacity:	550
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	Yes
Regulated:	Yes

BROYHILL FURNITURE IND, MARIO (Continued) **U003202391**

Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported
Decode for TCONS_KEY:	Single Wall Steel
Decode for PCONS_KEY:	Single Wall Steel
Decode for PSYS_KEY:	Unknown

Tank Id:	2
Tank Status:	Not reported
Installed Date:	04/18/1970
Perm Close Date:	11/14/1988
Product Name:	Fuel Oil
Tank Capacity:	8000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	Yes
Regulated:	No
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported
Decode for TCONS_KEY:	Single Wall Steel
Decode for PCONS_KEY:	Single Wall Steel
Decode for PSYS_KEY:	Unknown

G24 **IDEAL CLEANERS INC** **DRYCLEANERS** **S126477000**
ENE **139 W HENDERSON ST** **N/A**
< 1/8 **MCDOWELL COUNTY, NC**
0.111 mi.
588 ft. **Site 1 of 7 in cluster G**

Relative: **Higher**
Actual: **1397 ft.**
Client Plot

DRYCLEANERS:

Name:	IDEAL CLEANERS INC
Address:	139 W HENDERSON ST
City,State,Zip:	NC
Facility ID:	560004C
Status:	Compliance Insp
Priority:	Not reported
Rank:	Not reported
HCS Code:	99
HCS Ref:	Not reported
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.68181 -82.01065
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Rachel Clarke
Jurisdiction:	Not reported
Phone Number:	919-707-8351
X Coordinates:	-82.01065
Y Coordinates:	35.68181
Object ID:	896
Comments:	Full Service (Inactive) Date Established: 1/1/1950

H25 **CROSS MILLS, INC.** **IMD** **S127488059**
SW **513 CARSON ST.** **N/A**
< 1/8 **MARION, NC 28752**
0.113 mi.
595 ft. **Site 1 of 3 in cluster H**

Relative: **Higher**

Actual: **1415 ft.**

IMD:

Facility ID:	00-0-0000014406
Name:	CROSS MILLS, INC.
Address:	513 CARSON ST.
City,State,Zip:	MARION, NC 28752
Date Occurred:	Not reported
Submit Date:	Not reported
Incident Desc:	Not reported
Operator:	Not reported
UST ID:	AS-2377
Incident ID:	Not reported
Initials of UST Regional Contact:	Not reported
Regional Office:	ASH
Responsible Party/Company Name:	Not reported
Ownership:	Not reported
Responsible Party Contact Name:	Not reported
Operation:	Not reported
Responsible Party Mailing Address:	Not reported
Responsible Party City,State,Zip:	NC
Ownership:	Not reported
Operation Type:	Not reported
Responsible Party County:	Not reported
Source of Contamination:	Not reported
Source:	Not reported
Type:	Not reported
Location:	Not reported
Petroleum Type:	Not reported
Date Incident Reported:	1993-06-17 00:00:00
Whether Tank is Commercial or Non Commercial:	COMMERCIAL
Site Priority:	Not reported
Whether Tank is Regulated:	REGULATED
Priority Update:	Not reported
Notice of Regulatory Requirement:	Not reported
Wells Affected:	Not reported
Notice of Violation:	Not reported
Phase 1 or Phase 2:	Not reported
Num Affected:	Not reported
Site Priority:	Not reported
Type:	Not reported
Location:	Not reported
Current Risk Condition:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
Initial reported risk of incident (never changes):	L
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Intermediate Condition Present:	Not reported
Latitude:	0
Longitude:	0
Use of Land, Industrial:	Not reported
Corrective Action Plan Selected - up to 5:	Not reported
RBCA:	Not reported
Date Close Review Requested From RP or Owner:	Not reported

CROSS MILLS, INC. (Continued) **S127488059**

Date Case Closed: 1993-06-17 00:00:00
Extent of Contamination: None
Number of Supply Wells Located on Property: 0
MTBE in Well Y/N/U Yes, No or Unknown: 0
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: U
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: 1993-06-17 00:00:00
Record Status: ARCHIVED RECORD
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: 46
RP Owner?: False
RP Operator?: False
RP Landowner?: False

H26 **CROSS MILLS INC** **UST** **1000535152**
SW **513 CARSON STREET** **N/A**
< 1/8 **MARION, NC 28752**
0.113 mi.
595 ft. **Site 2 of 3 in cluster H**

Relative: **Higher**
Actual: **1415 ft.**

UST:
Name: CROSS MILLS INC
Address: 513 CARSON STREET
City,State,Zip: MARION, NC 28752
Facility Id: 00-0-0000014406
Contact: CROSS MILLS INC
Contact Address1: 513 CARSON STREET
Contact Address2: Not reported
Contact City/State/Zip: MARION, NC 28752
FIPS County Desc: McDowell
Latitude: 35.67781
Longitude: -82.0173

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 05/10/1979
Perm Close Date: 08/01/1988
Product Name: Other, Hazardous
Tank Capacity: 10000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

CROSS MILLS INC (Continued) **1000535152**

Tank Id: 2
Tank Status: Not reported
Installed Date: 05/10/1976
Perm Close Date: 05/26/1993
Product Name: Gasoline, Gas Mix
Tank Capacity: 1000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Tank Id: 3
Tank Status: Not reported
Installed Date: 05/15/1956
Perm Close Date: 05/26/1993
Product Name: Gasoline, Gas Mix
Tank Capacity: 1000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

H27 **UNLIMITED FINISHING** **SEMS-ARCHIVE** **1012043271**
SW **512 CARSON ST** **N/A**
< 1/8 **MARION, NC**
0.114 mi.
603 ft. **Site 3 of 3 in cluster H**

Relative: **Higher**
Actual: **1417 ft.**

SEMS Archive:
Site ID: 0410268
EPA ID: NCN000410268
Name: UNLIMITED FINISHING
Address: 512 CARSON ST
Address 2: Not reported
City,State,Zip: MARION, NC
Cong District: Not reported
FIPS Code: 37111
FF: N
NPL: Not on the NPL

UNLIMITED FINISHING (Continued) **1012043271**

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 04
Site ID: 0410268
EPA ID: NCN000410268
Site Name: UNLIMITED FINISHING
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 2008-05-20 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 04
Site ID: 0410268
EPA ID: NCN000410268
Site Name: UNLIMITED FINISHING
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 2008-05-20 04:00:00
Finish Date: 2008-05-20 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 04
Site ID: 0410268
EPA ID: NCN000410268
Site Name: UNLIMITED FINISHING
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 2008-05-20 04:00:00
Qual: N
Current Action Lead: St Perf

28
ENE
< 1/8
0.118 mi.
622 ft.

KWIK KLEEN LAUNDRY INC
MORGAN STREET
MARION, NC

DRYCLEANERS **S125088007**
N/A

Relative:
Lower

Actual:
1380 ft.

Client Plot

DRYCLEANERS:

Name:	KWIK KLEEN LAUNDRY INC
Address:	MORGAN STREET
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	53
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6793187 -82.0082815
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0082815
Y Coordinates:	35.6793187
Object ID:	5966
Comments:	Marion 1976 City Directory, Laundries Listing

I29
North
< 1/8
0.120 mi.
633 ft.

334 W COURT STREET - EMERGENCY NOTIFICATION
334 W COURT STREET
MARION, NC 28752

Site 1 of 2 in cluster I

RCRA NonGen / NLR **1026497357**
N/A

Relative:
Higher

Actual:
1440 ft.

RCRA Listings:

Date Form Received by Agency:	20201207
Handler Name:	334 W COURT STREET - EMERGENCY NOTIFICATION
Handler Address:	334 W COURT STREET
Handler City,State,Zip:	MARION, NC 28752
EPA ID:	NCP090820030
Contact Name:	JARRETT JESNER
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	828-442-0830
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	04
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	NC
State District:	NC
Mailing Address:	W COURT STREET
Mailing City,State,Zip:	MARION, NC 28752
Owner Name:	Not reported

334 W COURT STREET - EMERGENCY NOTIFICATION (Continued) **1026497357**

Owner Type: Not reported
Operator Name: Not reported
Operator Type: Not reported
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: N
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20201207
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No

334 W COURT STREET - EMERGENCY NOTIFICATION (Continued) **1026497357**

Sub-Part P Indicator: No

Historic Generators:
Receive Date: 20200909
Handler Name: 334 W COURT STREET - EMERGENCY NOTIFICATION
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NC
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20201207
Handler Name: 334 W COURT STREET - EMERGENCY NOTIFICATION
Federal Waste Generator Description: Not a generator, verified
State District Owner: NC
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I30 **W COURT STREET RESIDENTIAL HAZARDOUS MATERIALS** **SEMS** **1026463616**
North **334 W COURT STREET** **N/A**
< 1/8 **MARION, NC 28752**
0.120 mi.
633 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
1440 ft.

SEMS:
Site ID: 0420092
EPA ID: NCN000420092
Name: W COURT STREET RESIDENTIAL HAZARDOUS MATERIALS
Address: 334 W COURT STREET
Address 2: Not reported
City,State,Zip: MARION, NC 28752
Cong District: Not reported
FIPS Code: 37111
Latitude: +35.682385

W COURT STREET RESIDENTIAL HAZARDOUS MATERIALS (Continued) **1026463616**

Longitude: -82.014506
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:
Region: 04
Site ID: 0420092
EPA ID: NCN000420092
Site Name: W COURT STREET RESIDENTIAL HAZARDOUS MATERIALS
NPL: N
FF: N
OU: 00
Action Code: RV
Action Name: RMVL
SEQ: 1
Start Date: 2020-09-08 05:00:00
Finish Date: 2020-09-10 05:00:00
Qual: C
Current Action Lead: EPA Perf

G31 **IDEAL CLEANERS** **DRYCLEANERS** **S125084744**
ENE **139 WEST HENDERSON** **N/A**
1/8-1/4 **MARION, NC**
0.130 mi.
688 ft. **Site 2 of 7 in cluster G**

Relative: **Higher**
Actual: **1399 ft.**

DRYCLEANERS:
Name: IDEAL CLEANERS
Address: 139 WEST HENDERSON
City,State,Zip: MARION, NC
Facility ID: Not reported
Status: City Directory
Priority: Not reported
Rank: Not reported
HCS Code: 50
HCS Ref: Google API Geocoder
HCS Res: Not reported
HCS Scale: Not reported
Lat/Long: 35.6818719 -82.0107367
Shopping Center: Not reported
Certified Date: Not reported
Project Manager: Not reported
Jurisdiction: Not reported
Phone Number: Not reported
X Coordinates: -82.0107367
Y Coordinates: 35.6818719
Object ID: 2261
Comments: Marion 1941 City Directory, Cleaning Listing

G32 **IDEAL CLEANERS** **DRYCLEANERS** **S121572535**
ENE **139 W HENDERSON ST** **N/A**
1/8-1/4 **MARION, NC 28752**
0.130 mi.
688 ft. **Site 3 of 7 in cluster G**

Relative: **Higher**
Actual: **1399 ft.**

DRYCLEANERS:

Name:	IDEAL CLEANERS
Address:	139 W HENDERSON ST
City,State,Zip:	MARION, NC 28752
Facility ID:	Not reported
Status:	NCDOL
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6818719 -82.0107367
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0107367
Y Coordinates:	35.6818719
Object ID:	7024
Comments:	NC Dept of Labor Drycleaner Boiler Inspection list. Date of Inspection 8/7/2002

G33 **IDEAL CLEANERS** **DRYCLEANERS** **S125084687**
ENE **133 WEST HENDERSON** **N/A**
1/8-1/4 **MARION, NC**
0.136 mi.
717 ft. **Site 4 of 7 in cluster G**

Relative: **Higher**
Actual: **1399 ft.**

DRYCLEANERS:

Name:	IDEAL CLEANERS
Address:	133 WEST HENDERSON
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6818036 -82.0106422
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0106422
Y Coordinates:	35.6818036
Object ID:	2203
Comments:	Marion 1953 City Directory, Cleaners Listing

Name:	IDEAL CLEANERS
Address:	133 WEST HENDERSON

IDEAL CLEANERS (Continued) **S125084687**

City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6818036 -82.0106422
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0106422
Y Coordinates:	35.6818036
Object ID:	2204
Comments:	Marion 1976 City Directory, Dry Cleaners Listing

G34 **IDEAL CLEANERS** **UST** **U000825189**
ENE **133 WEST HENDERSON STREET** **N/A**
1/8-1/4 **MARION, NC 28752**
0.136 mi.
717 ft. **Site 5 of 7 in cluster G**

Relative: **Higher**

Actual: **1399 ft.**

UST:

Name:	IDEAL CLEANERS
Address:	133 WEST HENDERSON STREET
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000028811
Contact:	IDEAL CLEANERS
Contact Address1:	133 WEST HENDERSON STREET
Contact Address2:	Not reported
Contact City/State/Zip:	MARION, NC 28752
FIPS County Desc:	McDowell
Latitude:	35.6755
Longitude:	-82.0142

Click here to access the North Carolina DEQ records for this facility:

Tank Id:	1
Tank Status:	Not reported
Installed Date:	01/01/1964
Perm Close Date:	Not reported
Product Name:	Fuel Oil
Tank Capacity:	1000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	No
Regulated:	No
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported

IDEAL CLEANERS (Continued) **U000825189**

Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Other
Decode for PSYS_KEY: Unknown

G35 **IDEAL CLEANERS** **DRYCLEANERS** **S125088907**
ENE **133 W HENDERSON ST** **N/A**
1/8-1/4 **MARION, NC 28752**
0.136 mi.
717 ft. **Site 6 of 7 in cluster G**

Relative: **Higher**
Actual: **1399 ft.**

DRYCLEANERS:

Name:	IDEAL CLEANERS
Address:	133 W HENDERSON ST
City,State,Zip:	MARION, NC 28752
Facility ID:	Not reported
Status:	NCDOL
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6818036 -82.0106422
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0106422
Y Coordinates:	35.6818036
Object ID:	7023
Comments:	NC Dept of Labor Drycleaner Boiler Inspection list. Date of Inspection 7/8/1974

G36 **EMW PROPERTIES** **LUST** **S118755999**
ENE **105 W. HENDERSON ST.** **INST CONTROL** **N/A**
1/8-1/4 **MARION, NC 28752**
0.159 mi.
838 ft. **Site 7 of 7 in cluster G**

Relative: **Higher**
Actual: **1400 ft.**

LUST:

Name:	EMW PROPERTIES
Address:	105 W. HENDERSON ST.
City,State,Zip:	MARION, NC 28752
Facility ID:	Not reported
UST Number:	AS-4423
Incident Number:	41482
Source Type:	3
Date Reported:	07/15/2016
Closure Request:	Not reported
Close Out:	09/13/2016
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	N
Risk Classification:	U
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported

EMW PROPERTIES (Continued) **S118755999**

NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: RES
MTBE: 0
MTBE1: U
Flag: 0
Flag1: 0
LUR Filed: 09/28/2016
GPS Confirmed: 3
Current Status: A
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: JCA
Company: Not reported
Telephone: Not reported
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-4423
Facility Id: 41482
Date Occurred: 5/9/2016
Date Reported: 7/15/2016
Owner/Operator: Not reported
Ownership: 4
Operation Type: 5
Type: 4
Location: 1
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: N
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 3
Cause: 7
Source: G
UST Number: P

LUST:
Incident Number: 41482
Last Modified: 9/13/2016
Incident Phase: CO
NOV Issued: Not reported

EMW PROPERTIES (Continued) **S118755999**

NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

INST CONTROL:
Name: EMW PROPERTIES
Address: 105 W. HENDERSON ST.
City,State,Zip: MARION, NC
Project Number: AS-4423
Object ID: Not reported
DWM Contact: Asheville Regional Office (828) 296-4500
DWM Program: Underground Storage Tank Section
Project Status: No Further Action
COC: Multi COC
Contamination Source: UST System
Received Date: 9/27/2016
Restricted Media: Multi-Media
Allowed Use: Media Restrictions Only
Certification: None
Plant Reception Date: Not reported
Instrument Status: Effective
Deed BK: Not reported
Deed PG: Not reported
Plat BK: Not reported
Plat PG: Not reported
Instrument: Notice and Restriction
Deed: Not reported
Deed Date: Recorded 9-27-2016
Plat: Not reported
Plat Date: Not reported
X Coord: 1106260.9923
Y Coord: 716683.1974

J37 **TRIANGLE MART** **IMD** **S127488590**
SSE **548 W. HENDERSON ST.** **N/A**
1/8-1/4 **MARION, NC 28752**
0.162 mi.
858 ft. **Site 1 of 4 in cluster J**

Relative: IMD:
Lower
Facility ID: 00-0-0000021050
Actual: Name: TRIANGLE MART
1390 ft. Address: 548 W. HENDERSON ST.
City,State,Zip: MARION, NC 28752
Date Occurred: Not reported
Submit Date: Not reported
Incident Desc: Not reported
Operator: Not reported
UST ID: AS-2371
Incident ID: Not reported
Initials of UST Regional Contact: Not reported

TRIANGLE MART (Continued) **S127488590**

Regional Office: ASH
Responsible Party/Company Name: Not reported
Ownership: Not reported
Responsible Party Contact Name: Not reported
Operation: Not reported
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: NC
Ownership: Not reported
Operation Type: Not reported
Responsible Party County: Not reported
Source of Contamination: Not reported
Source: Not reported
Type: Not reported
Location: Not reported
Petroleum Type: Not reported
Date Incident Reported: 1992-09-22 00:00:00
Whether Tank is Commercial or Non Commercial: COMMERCIAL
Site Priority: Not reported
Whether Tank is Regulated: REGULATED
Priority Update: Not reported
Notice of Regulatory Requirement: Not reported
Wells Affected: Not reported
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: Not reported
Site Priority: Not reported
Type: Not reported
Location: Not reported
Current Risk Condition: Not reported
Sampled By: Not reported
Samples Include: Not reported
Initial reported risk of incident (never changes): L
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Intermediate Condition Present: Not reported
Latitude: 0
Longitude: 0
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: 1992-09-22 00:00:00
Extent of Contamination: None
Number of Supply Wells Located on Property: 0
MTBE in Well Y/N/U Yes, No or Unknown: 0
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: U
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: 1992-09-22 00:00:00
Record Status: ARCHIVED RECORD
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: 46
RP Owner?: False
RP Operator?: False
RP Landowner?: False

J38 **MARION BRANCH OFFICE** **UST** **U003135526**
SSE **601 W. HENDERSON** **LUST** **N/A**
1/8-1/4 **MARION, NC 28752**
0.169 mi.
894 ft. **Site 2 of 4 in cluster J**

Relative:
Higher

Actual:
1399 ft.

LUST:

Name:	DUKE POWER OPNS CTR-MARION
Address:	601 W. HENDERSON
City,State,Zip:	MARION, NC 28752
Facility ID:	00-0-000
UST Number:	AS-1035
Incident Number:	11262
Source Type:	3
Date Reported:	10/29/1993
Closure Request:	Not reported
Close Out:	11/20/1993
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	Not reported
Commercial/NonCommercial UST Site:	C
Risk Classification:	L
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	Not reported
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	3
Current Status:	A
RBCA GW:	Not reported
PETOPT:	3
RPL:	False
CD Num:	46
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Company:	Not reported
Telephone:	Not reported
5 Min Quad:	Not reported

LUST:

ERR Type:	Not reported
UST Number:	AS-1035
Facility Id:	11262
Date Occurred:	8/24/1993
Date Reported:	10/29/1993
Owner/Operator:	Not reported
Ownership:	4
Operation Type:	1

MARION BRANCH OFFICE (Continued) **U003135526**

Type: 3
Location: 1
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: N
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Min_Soil
Err Type: 2
Cause: 7
Source: G
UST Number: P

LUST:
Incident Number: 11262
Last Modified: 12/22/1993
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 11/20/1993

UST:
Name: MARION BRANCH OFFICE
Address: 601 W. HENDERSON
City,State,Zip: MARION, NC 28752
Facility Id: 00-0-0000013535
Contact: DUKE POWER CO/ATTN CRAVEN SLOOP
Contact Address1: PO BOX 1007 WC26H
Contact Address2: Not reported
Contact City/State/Zip: CHARLOTTE, NC 28201-1007
FIPS County Desc: McDowell
Latitude: 35.67643
Longitude: -82.0129

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 05/07/1983
Perm Close Date: 10/22/1993
Product Name: Gasoline, Gas Mix
Tank Capacity: 8000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported

MARION BRANCH OFFICE (Continued) **U003135526**

Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

J39 **DUKE POWER OPNS CTR-MARION** **IMD** **S105892875**
SSE **601 W. HENDERSON** **N/A**
1/8-1/4 **MARION, NC**
0.170 mi.
895 ft. **Site 3 of 4 in cluster J**

Relative: Higher
Actual: 1399 ft.

IMD:
Facility ID: 11262
Name: DUKE POWER OPNS CTR-MARION
Address: 601 W. HENDERSON
City,State,Zip: MARION, NC
Date Occurred: 8/24/1993
Submit Date: 11/23/1993
Incident Desc: RELEASE DISCOVERED DURING A REMOVAL OF A TANK.
Operator: Not reported
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 1
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Public Service
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: Not reported
Whether Tank is Regulated: Not reported
Priority Update: Not reported
Notice of Regulatory Requirement: Not reported
Wells Affected: Not reported
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: Not reported

DUKE POWER OPNS CTR-MARION (Continued) **S105892875**

Samples Include: Not reported
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Intermediate Condition Present: Not reported
Latitude: 35.67583333
Longitude: -82.01305555
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 11262
Last Modified: 1993-12-22 00:00:00
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1993-11-20 00:00:00

40
SE
1/8-1/4
0.171 mi.
903 ft.

KAY LEE EXPRESS **UST** **U003138214**
435 WEST HENDERSON STREET **Financial Assurance** **N/A**
MARION, NC 28752 **LUST TRUST**
LUST
IMD

Relative:
Lower

Actual:
1360 ft.

LUST:
Name: KAY LEE EXPRESS
Address: 435 WEST HENDERSON STREET
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
UST Number: AS-28210
Incident Number: 47472
Source Type: 3

KAY LEE EXPRESS (Continued) **U003138214**

Date Reported: 01/13/2021
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: C
Risk Classification: Not reported
Risk Class Based On Review: U
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: 0
MTBE1: N
Flag: 0
Flag1: Not reported
LUR Filed: Not reported
GPS Confirmed: 3
Current Status: C
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: Not reported
Reel Num: Not reported
RPOW: False
RPOP: False
Error Flag: Not reported
Error Code: N
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: MC
Company: marion lube llc
Telephone: Not reported
5 Min Quad: Not reported

LUST TRUST:
Name: KAY LEE EXPRESS
Address: 435 WEST HENDERSON STREET
City,State,Zip: MARION, NC
Facility ID: 00-0-0000034798
Site ID: 47472
Site Note: Commercial; $20,000 deductible. 100% eligible for cost that exceed the $20K deductible per eligibility letter dated 1/3/2022 by MP.
Site Eligible?: True
Commercial Find: 100% Commercial
Priority Rank: Not reported
Deductable Amount: 20000
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

UST:
Name: KAY LEE EXPRESS
Address: 435 WEST HENDERSON STREET
City,State,Zip: MARION, NC 28752

KAY LEE EXPRESS (Continued) **U003138214**

Facility Id: 00-0-0000034798
Contact: MARION LUBE, LLC
Contact Address1: 380 HOLLY HILL DRIVE
Contact Address2: Not reported
Contact City/State/Zip: MARION, NC 28752-4837
FIPS County Desc: McDowell
Latitude: 35.67783
Longitude: -82.0109

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 11/01/1995
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 14000
Root Tank Id: 208037
Main Tank: Yes
Compartment Tank: Yes
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel/FRP
Decode for PCONS_KEY: Single Wall FRP
Decode for PSYS_KEY: Pressurized System

Tank Id: 1B
Tank Status: Not reported
Installed Date: 11/01/1995
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 6000
Root Tank Id: 208037
Main Tank: No
Compartment Tank: Yes
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel/FRP
Decode for PCONS_KEY: Single Wall FRP
Decode for PSYS_KEY: Pressurized System

IMD:
Facility ID: 15381
Name: MARION FOOD MART
Address: 275 WEST HENDERSON STREET

KAY LEE EXPRESS (Continued) **U003138214**

City,State,Zip: MARION, NC
Date Occurred: 4/18/1996
Submit Date: 5/6/1996
Incident Desc: FREE PRODUCT WAS FOUND IN STREAM. TANK TIGHTNESS TEST FOUND LEAKAGE.
Operator: KENNERLY OIL
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 6
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Commercial
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: 80 E
Whether Tank is Regulated: Not reported
Priority Update: 4/15/1998
Notice of Regulatory Requirement: Not reported
Wells Affected: N
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: 5
Samples Include: Not reported
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: L80U
Intermediate Condition Present: Not reported
Latitude: 35.67833333
Longitude: -82.01166666
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported

KAY LEE EXPRESS (Continued) **U003138214**

Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 15381
Last Modified: 2008-07-09 00:00:00
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

NC Financial Assurance 1:
Name: KAY LEE EXPRESS
Address: 435 WEST HENDERSON STREET
City,State,Zip: MARION, NC 28752
Facility ID: 00-0-0000034798
Region: 1
Financial Responsibility Desc: Self-Insurance
Financial Responsibility Name: Mountain Energy Corporation
Started Date: 01/10/2013
Ended Date: 01/10/2014

Name: KAY LEE EXPRESS
Address: 435 WEST HENDERSON STREET
City,State,Zip: MARION, NC 28752
Facility ID: 00-0-0000034798
Region: 1
Financial Responsibility Desc: Self-Insurance
Financial Responsibility Name: Mountain Energy Corporation
Started Date: 01/30/2013
Ended Date: 01/29/2014

K41 **RITE AID #11558** **RCRA NonGen / NLR** **1015745360**
SSE **625 WEST HENDERSON ST** **N/A**
1/8-1/4 **MARION, NC 28752**
0.173 mi.
915 ft. **Site 1 of 2 in cluster K**

Relative:
Higher

Actual:
1400 ft.

RCRA Listings:
Date Form Received by Agency: 20180129
Handler Name: RITE AID #11558
Handler Address: 625 WEST HENDERSON ST
Handler City,State,Zip: MARION, NC 28752
EPA ID: NCR000158030

RITE AID #11558 (Continued) **1015745360**

Contact Name: DAVID W CROZIER
Contact Address: HUNTER LN
Contact City,State,Zip: CAMP HILL, PA 17011
Contact Telephone: 717-975-8643
Contact Fax: 717-972-3989
Contact Email: EHS@RITEAID.COM
Contact Title: MGR ENV HEALTH & SAFETY
EPA Region: 04
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: NC
State District: NC
Mailing Address: HUNTER LN
Mailing City,State,Zip: CAMP HILL, PA 17011
Owner Name: SHOPPING CENTER FINANCING II LLC
Owner Type: Private
Operator Name: ECKERD CORPORATION
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No
Underground Injection Control: No
Off-Site Waste Receipt: No
Universal Waste Indicator: No
Universal Waste Destination Facility: No
Federal Universal Waste: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported
Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: NN
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No

RITE AID #11558 (Continued) **1015745360**

Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20180130
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D024

RITE AID #11558 (Continued) **1015745360**

Waste Description: M-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P042
Waste Description: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U035
Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste Code: U211

RITE AID #11558 (Continued) **1015745360**

Waste Description: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

Waste Code: U240
Waste Description: 2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR) DICHLOROPHENOXYACETIC ACID 2,4-D

Waste Code: U279
Waste Description: U279

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: ECKERD CORPORATION
Legal Status: Private
Date Became Current: 20070928
Date Ended Current: Not reported
Owner/Operator Address: 30 HUNTER LN
Owner/Operator City,State,Zip: CAMP HILL, PA 17011
Owner/Operator Telephone: 717-761-2633
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SHOPPING CENTER FINANCING II LLC
Legal Status: Private
Date Became Current: 19771103
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 6676
Owner/Operator City,State,Zip: ASHEVILLE, NC 28816
Owner/Operator Telephone: 828-669-2941
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SHOPPING CENTER FINANCING II LLC
Legal Status: Private
Date Became Current: 19771103
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 6676
Owner/Operator City,State,Zip: ASHEVILLE, NC 28816
Owner/Operator Telephone: 828-669-2941
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ECKERD CORPORATION
Legal Status: Private
Date Became Current: 20070928
Date Ended Current: Not reported
Owner/Operator Address: 625 WEST HENDERSON ST
Owner/Operator City,State,Zip: MARION, NC 28752
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

RITE AID #11558 (Continued) **1015745360**

Owner/Operator Indicator: Operator
Owner/Operator Name: ECKERD CORPORATION
Legal Status: Private
Date Became Current: 20070928
Date Ended Current: Not reported
Owner/Operator Address: 625 WEST HENDERSON ST
Owner/Operator City,State,Zip: MARION, NC 28752
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: RITE AID CORPORATION
Legal Status: Private
Date Became Current: 20070928
Date Ended Current: Not reported
Owner/Operator Address: 625 WEST HENDERSON ST
Owner/Operator City,State,Zip: MARION, NC 28752
Owner/Operator Telephone: 717-730-8225
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20121018
Handler Name: RITE AID #11558
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150904
Handler Name: RITE AID #11558
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: NC
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180129
Handler Name: RITE AID #11558
Federal Waste Generator Description: Not a generator, verified
State District Owner: NC
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

RITE AID #11558 (Continued) **1015745360**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 44611
NAICS Description: PHARMACIES AND DRUG STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

K42 **INGLES 60** **UST** **U004281448**
SSE **625 WEST HENDERSON STREET** **Financial Assurance** **N/A**
1/8-1/4 **MARION, NC 28752**
0.173 mi.
915 ft. **Site 2 of 2 in cluster K**

Relative:
Higher

Actual:
1400 ft.

UST:
Name: INGLES 60
Address: 625 WEST HENDERSON STREET
City,State,Zip: MARION, NC 28752
Facility Id: 00-0-0000042630
Contact: INGLES MARKETS, INCORPORATED
Contact Address1: PO BOX 6676
Contact Address2: Not reported
Contact City/State/Zip: ASHEVILLE, NC 28816-6676
FIPS County Desc: McDowell
Latitude: 35.67522
Longitude: -82.0139

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1A
Tank Status: Not reported
Installed Date: 04/01/2018
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 25000
Root Tank Id: Not reported
Main Tank: Yes
Compartment Tank: Yes
Manifold Tank: 0
Commercial: No
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported

INGLES 60 (Continued) **U004281448**

Decode for TCONS_KEY: Double Wall FRP
Decode for PCONS_KEY: Double Wall Flex
Decode for PSYS_KEY: Pressurized System

Tank Id: 1B
Tank Status: Not reported
Installed Date: 04/01/2018
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 7000
Root Tank Id: 381767
Main Tank: No
Compartment Tank: Yes
Manifold Tank: 0
Commercial: No
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Double Wall FRP
Decode for PCONS_KEY: Double Wall Flex
Decode for PSYS_KEY: Pressurized System

Tank Id: 2A
Tank Status: Not reported
Installed Date: 04/01/2018
Perm Close Date: Not reported
Product Name: Diesel
Tank Capacity: 5000
Root Tank Id: Not reported
Main Tank: Yes
Compartment Tank: Yes
Manifold Tank: 0
Commercial: No
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Double Wall FRP
Decode for PCONS_KEY: Double Wall Flex
Decode for PSYS_KEY: Pressurized System

Tank Id: 2B
Tank Status: Not reported
Installed Date: 04/01/2018
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 5000
Root Tank Id: 381771
Main Tank: No
Compartment Tank: Yes
Manifold Tank: 0

INGLES 60 (Continued) **U004281448**

Commercial: No
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Double Wall FRP
Decode for PCONS_KEY: Double Wall Flex
Decode for PSYS_KEY: Pressurized System

NC Financial Assurance 1:
Name: INGLES 60
Address: 625 WEST HENDERSON STREET
City,State,Zip: MARION, NC 28752
Facility ID: 00-0-0000042630
Region: 1
Financial Responsibility Desc: Insurance & Risk Retension
Financial Responsibility Name: Ace American Insurance Company
Started Date: Not reported
Ended Date: Not reported

J43 **KWIK AS A WINK** **LUST** **S114020734**
SE **505 WEST HENDERSON ST.** **N/A**
1/8-1/4 **MARION, NC 28650**
0.182 mi.
961 ft. **Site 4 of 4 in cluster J**

Relative: LUST:
Lower
Actual: Name: KWIK AS A WINK
1381 ft. Address: 505 WEST HENDERSON ST.
City,State,Zip: MARION, NC 28650
Facility ID: 00-0-000
UST Number: AS-4061
Incident Number: 41163
Source Type: 3
Date Reported: 10/28/2013
Closure Request: Not reported
Close Out: 04/16/2014
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: C
Risk Classification: U
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: 0
MTBE1: U
Flag: 0
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 3
Current Status: A
RBCA GW: Not reported

KWIK AS A WINK (Continued) **S114020734**

PETOPT:	3
RPL:	False
CD Num:	656
Reel Num:	0
RPOW:	True
RPOP:	True
Error Flag:	0
Error Code:	N
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	DME
Company:	CASON COMPANIES, INC
Telephone:	8286925716
5 Min Quad:	Not reported

LUST:

ERR Type:	Not reported
UST Number:	AS-4061
Facility Id:	41163
Date Occurred:	9/4/2013
Date Reported:	10/28/2013
Owner/Operator:	Not reported
Ownership:	4
Operation Type:	6
Type:	3
Location:	1
Priority Update:	Not reported
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	Y
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	7
Source:	A
UST Number:	P

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44 **DIXIE DRY CLEANERS** **DRYCLEANERS** **S125089713**
ENE **11 SOUTH LOGAN** **N/A**
1/8-1/4 **MARION, NC**
0.184 mi.
973 ft.

Relative:
Higher

Actual:
1400 ft.

DRYCLEANERS:

Name:	DIXIE DRY CLEANERS
Address:	11 SOUTH LOGAN
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	51
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported

DIXIE DRY CLEANERS (Continued) **S125089713**

Lat/Long:	35.6825182 -82.009832
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.009832
Y Coordinates:	35.6825182
Object ID:	1559
Comments:	Marion 1941 City Directory, Cleaning Listing

Name:	DIXIE DRY CLEANERS
Address:	11 SOUTH LOGAN
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	51
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6825182 -82.009832
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.009832
Y Coordinates:	35.6825182
Object ID:	1560
Comments:	Marion 1953 City Directory, Cleaners Listing

L45 **MCDOWELL CO PARKS & RECRECATION** **UST** **U001206306**
NE **1 ACADEMY STREET** **N/A**
1/8-1/4 **MARION, NC 28752**
0.196 mi.
1033 ft. **Site 1 of 5 in cluster L**

Relative: UST:
Higher

Actual:
1412 ft.

Name:	MCDOWELL CO PARKS & RECRECATION
Address:	1 ACADEMY STREET
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000032371
Contact:	MCDOWELL CO PARKS & RECRECATION
Contact Address1:	1 ACADEMY STREET
Contact Address2:	Not reported
Contact City/State/Zip:	MARION, NC 28752
FIPS County Desc:	McDowell
Latitude:	35.68350
Longitude:	-82.0112

Click here to access the North Carolina DEQ records for this facility:

Tank Id:	1
Tank Status:	Not reported
Installed Date:	06/19/1971

MCDOWELL CO PARKS & RECRECATION (Continued) **U001206306**

Perm Close Date: 08/31/1990
Product Name: Heating Oil/Fuel
Tank Capacity: 10000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: No
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Unknown
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

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46 **TRIANGLE MART** **UST** **U001203336**
South **548 OLD W. HENDERSON STREET** **N/A**
1/8-1/4 **MARION, NC 28752**
0.197 mi.
1038 ft.

Relative: UST:
Higher
Name: TRIANGLE MART
Actual: Address: 548 OLD W. HENDERSON STREET
1407 ft. City,State,Zip: MARION, NC 28752
Facility Id: 00-0-0000027050
Contact: WILLIAM LEE . HALL
Contact Address1: 101 ANN STREET
Contact Address2: Not reported
Contact City/State/Zip: RUTHERFORDTON, NC 28139
FIPS County Desc: McDowell
Latitude: 35.67670
Longitude: -82.0128

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 01/01/1976
Perm Close Date: 07/16/1992
Product Name: Gasoline, Gas Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

TRIANGLE MART (Continued) **U001203336**

Tank Id:	2
Tank Status:	Not reported
Installed Date:	01/01/1976
Perm Close Date:	07/16/1992
Product Name:	Gasoline, Gas Mix
Tank Capacity:	4000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	Yes
Regulated:	Yes
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported
Decode for TCONS_KEY:	Single Wall Steel
Decode for PCONS_KEY:	Single Wall Steel
Decode for PSYS_KEY:	Unknown

L47 **MARION DRY CLEANERS** **DRYCLEANERS** **S125089706**
NE **109 WEST COURT** **N/A**
1/8-1/4 **MARION, NC**
0.197 mi.
1042 ft. **Site 2 of 5 in cluster L**

Relative:
Higher

Actual:
1407 ft.

DRYCLEANERS:

Name:	MARION DRY CLEANERS
Address:	109 WEST COURT
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6833983 -82.0108808
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0108808
Y Coordinates:	35.6833983
Object ID:	1551
Comments:	Marion 1941 City Directory, Cleaning Listing

Name:	MARION DRY CLEANERS
Address:	109 WEST COURT
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder

MARION DRY CLEANERS (Continued) **S125089706**

HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6833983 -82.0108808
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0108808
Y Coordinates:	35.6833983
Object ID:	1552
Comments:	Marion 1953 City Directory, Cleaners Listing

L48 **ECONOMY COIN A MATIC LAUNDRY** **DRYCLEANERS** **S125089704**
NE **109 WEST COURT STREET** **N/A**
1/8-1/4 **MARION, NC**
0.197 mi.
1042 ft. **Site 3 of 5 in cluster L**

Relative: DRYCLEANERS:
Higher

Name:	ECONOMY COIN A MATIC LAUNDRY
Address:	109 WEST COURT STREET
City,State,Zip:	MARION, NC
Facility ID:	Not reported
Status:	City Directory
Priority:	Not reported
Rank:	Not reported
HCS Code:	50
HCS Ref:	Google API Geocoder
HCS Res:	Not reported
HCS Scale:	Not reported
Lat/Long:	35.6833983 -82.0108808
Shopping Center:	Not reported
Certified Date:	Not reported
Project Manager:	Not reported
Jurisdiction:	Not reported
Phone Number:	Not reported
X Coordinates:	-82.0108808
Y Coordinates:	35.6833983
Object ID:	1550
Comments:	Marion 1976 City Directory, Laundries Listing

Actual:
1407 ft.

L49 **MCDOWELL CEMENT PRODUCTS CO, INC** **UST** **1001164567**
NE **SOUTH GARDEN STREET** **N/A**
1/8-1/4 **MARION, NC 28752**
0.222 mi.
1171 ft. **Site 4 of 5 in cluster L**

Relative: UST:
Higher

Name:	MCDOWELL CEMENT PRODUCTS CO, INC
Address:	SOUTH GARDEN STREET
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000014435
Contact:	MCDOWELL CEMENT PRODUCTS CO, INC
Contact Address1:	SOUTH GARDEN STREET
Contact Address2:	Not reported

Actual:
1406 ft.

MCDOWELL CEMENT PRODUCTS CO, INC (Continued) **1001164567**

Contact City/State/Zip: MARION, NC 28752
FIPS County Desc: McDowell
Latitude: 0
Longitude: 0

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 05/10/1976
Perm Close Date: 02/05/1993
Product Name: Diesel
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

L50 **LIBRARY-MAIN BRANCH** **LUST S101167652**
NE **100 WEST COURT ST** **IMD N/A**
1/8-1/4 **MARION, NC 28752**
0.229 mi.
1210 ft. **Site 5 of 5 in cluster L**

Relative: **Higher**
Actual: **1406 ft.**

LUST:
Name: LIBRARY-MAIN BRANCH
Address: 100 WEST COURT ST
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
UST Number: AS-323
Incident Number: 5380
Source Type: 3
Date Reported: 02/15/1990
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: 25 E
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: RES
MTBE: Not reported
MTBE1: U

LIBRARY-MAIN BRANCH (Continued) **S101167652**

Flag: 0
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 3
Current Status: C
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: JCA
Company: CHARLES R. ABERNATHY
Telephone: Not reported
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-323
Facility Id: 5380
Date Occurred: 1/1/1990
Date Reported: 2/12/1990
Owner/Operator: CHARLES R. ABERNATHY
Ownership: 6
Operation Type: 1
Type: 4
Location: 1
Priority Update: 4/15/1998
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 4
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Pirf
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 5380
Last Modified: Not reported
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported

LIBRARY-MAIN BRANCH (Continued) **S101167652**

Close-out Report: Not reported

IMD:
Facility ID: 5380
Name: LIBRARY-MAIN BRANCH
Address: 100 WEST COURT ST
City,State,Zip: MARION, NC
Date Occurred: 1/1/1990
Submit Date: 2/12/1990
Incident Desc: #2 FUEL OIL WAS DISCOVERED IN THE BASEMENT OF THE MCDOWELL CO. LIBRARY.
Operator: MCDOWELL COUNTY
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 6
Responsible Party Contact Name: Not reported
Operation: 1
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: County
Operation Type: Public Service
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: 25 E
Whether Tank is Regulated: Not reported
Priority Update: 4/15/1998
Notice of Regulatory Requirement: Not reported
Wells Affected: N
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: 4
Samples Include: Not reported
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Intermediate Condition Present: Not reported
Latitude: 35.68138888
Longitude: -82.01666666
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported

LIBRARY-MAIN BRANCH (Continued) **S101167652**

Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 5380
Last Modified: Not reported
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

M51 **HOLIDAY CLEANERS INC** **DRYCLEANERS** **S125088908**
NE **30 N LOGAN ST** **N/A**
1/8-1/4 **MARION, NC 28752**
0.242 mi.
1279 ft. **Site 1 of 3 in cluster M**

Relative: **Higher**
Actual: **1408 ft.**

DRYCLEANERS:
Name: HOLIDAY CLEANERS INC
Address: 30 N LOGAN ST
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
Status: NCDOL
Priority: Not reported
Rank: Not reported
HCS Code: 51
HCS Ref: Google API Geocoder
HCS Res: Not reported
HCS Scale: Not reported
Lat/Long: 35.6829806 -82.0096328
Shopping Center: Not reported
Certified Date: Not reported
Project Manager: Not reported
Jurisdiction: Not reported
Phone Number: Not reported
X Coordinates: -82.0096328

HOLIDAY CLEANERS INC (Continued) **S125088908**

Y Coordinates: 35.6829806
Object ID: 7025
Comments: NC Dept of Labor Drycleaner Boiler Inspection list. Date of Inspection 7/19/1994

M52 **HOLIDAY CLEANERS** **DRYCLEANERS** **S125085956**
NE **30 NORTH LOGAN STREET** **N/A**
1/8-1/4 **MARION, NC**
0.242 mi.
1279 ft. **Site 2 of 3 in cluster M**

Relative: **Higher**
Actual: **1408 ft.**

DRYCLEANERS:
Name: HOLIDAY CLEANERS
Address: 30 NORTH LOGAN STREET
City,State,Zip: MARION, NC
Facility ID: Not reported
Status: City Directory
Priority: Not reported
Rank: Not reported
HCS Code: 51
HCS Ref: Google API Geocoder
HCS Res: Not reported
HCS Scale: Not reported
Lat/Long: 35.6829806 -82.0096328
Shopping Center: Not reported
Certified Date: Not reported
Project Manager: Not reported
Jurisdiction: Not reported
Phone Number: Not reported
X Coordinates: -82.0096328
Y Coordinates: 35.6829806
Object ID: 3709
Comments: Marion 1976 City Directory, Dry Cleaners Listing

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53 **MCDOWELL DRY CLEANERS** **DRYCLEANERS** **S125088906**
ENE **12 HENDERSON ST** **N/A**
1/8-1/4 **MARION, NC 28752**
0.249 mi.
1313 ft.

Relative: **Higher**
Actual: **1400 ft.**

DRYCLEANERS:
Name: MCDOWELL DRY CLEANERS
Address: 12 HENDERSON ST
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
Status: NCDOL
Priority: Not reported
Rank: Not reported
HCS Code: 51
HCS Ref: Google API Geocoder
HCS Res: Not reported
HCS Scale: Not reported
Lat/Long: 35.683003 -82.008711
Shopping Center: Not reported
Certified Date: Not reported
Project Manager: Not reported
Jurisdiction: Not reported

MCDOWELL DRY CLEANERS (Continued) **S125088906**

Phone Number: Not reported
X Coordinates: -82.008711
Y Coordinates: 35.683003
Object ID: 7022
Comments: NC Dept of Labor Drycleaner Boiler Inspection list. Date of Inspection 12/7/1970

M54 **GALEY & LORD INDUSTRIES INC - MCDOWELL P** **ECHO** **1006176609**
NE **HIGHWAY 70 EAST** **FINDS** **N/A**
1/4-1/2 **MARION, NC 28752** **LUST**
0.261 mi. **IMD**
1376 ft. **Site 3 of 3 in cluster M**

Relative:
Higher

Actual:
1402 ft.

LUST:
Name: GALEY & LORD, INC.
Address: E. COURT ST & CLINCHFIELD LOOP
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
UST Number: AS-674
Incident Number: 7526
Source Type: 3
Date Reported: 01/28/1992
Closure Request: Not reported
Close Out: 06/15/1992
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: U
Flag: 1
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 3
Current Status: A
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 46
Reel Num: 0
RPOW: True
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: DRL
Company: GALEY AND LORD
Telephone: Not reported
5 Min Quad: Not reported

LUST:

GALEY & LORD INDUSTRIES INC - MCDOWELL P (Continued) **1006176609**

ERR Type: Not reported
UST Number: AS-674
Facility Id: 7526
Date Occurred: 1/28/1992
Date Reported: 4/6/1992
Owner/Operator: Not reported
Ownership: Not reported
Operation Type: Not reported
Type: Not reported
Location: Not reported
Priority Update: Not reported
Wells Affected Y/N: Not reported
Samples Include: 0
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Min_Soil
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 7526
Last Modified: 7/10/1992
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 3/16/1992

IMD:
Facility ID: 7526
Name: GALEY & LORD, INC.
Address: HIGHWAY 70 EAST
City,State,Zip: MARION, NC
Date Occurred: 1/28/1992
Submit Date: 4/6/1992
Incident Desc: CONTAMINATION FOUND DURING UST REMOVAL
Operator: RALPH GIBSON
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: Not reported
Responsible Party Contact Name: Not reported
Operation: Not reported
Responsible Party Mailing Address: Not reported

GALEY & LORD INDUSTRIES INC - MCDOWELL P (Continued) **1006176609**

Responsible Party City,State,Zip: Not reported
Ownership: Not reported
Operation Type: Not reported
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: Not reported
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: Not reported
Whether Tank is Regulated: Not reported
Priority Update: Not reported
Notice of Regulatory Requirement: Not reported
Wells Affected: Not reported
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Not reported
Current Risk Condition: Not reported
Sampled By: Not reported
Samples Include: Not reported
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Intermediate Condition Present: Not reported
Latitude: Not reported
Longitude: Not reported
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 7526
Last Modified: 1992-07-10 00:00:00
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported

GALEY & LORD INDUSTRIES INC - MCDOWELL P (Continued) **1006176609**

45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1992-03-16 00:00:00

FINDS:
Registry ID: 110007376357

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
NC-FITS (North Carolina - Facility Identification Template For States) is North Carolina Department of Environment and Natural Resources' (NCDENR) Facility Identification Template for States that provides a common facility identifier in order to improve accessibility to comprehensive information about environmental regulated entities in the state of North Carolina.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1006176609
Registry ID: 110007376357
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110007376357
Name: GALEY & LORD INDUSTRIES INC - MCDOWELL P
Address: HIGHWAY 70 EAST
City,State,Zip: MARION, NC 28752

N55 **MCDOWELL CO. C&D STOCKPILE** **HIST LF** **S105163917**
NE **10 EAST COURT DRIVE** **N/A**
1/4-1/2 **MARION, NC**
0.302 mi.
1593 ft. **Site 1 of 3 in cluster N**

Relative:
Higher

Actual:
1403 ft.

HIST_LF:
Facility Type: CDLF
permit_num: Not reported
Facility Fax: 828-659-3484
Contact Name: Mike Gladden
Contact Title: Not reported
Contact Telephone: 828-659-2521
Contact Address: RT 1, BOX 169-B
Contact City,St,Zip: MARION, NC 28752
Lined: False
Facility Id: U0008

MCDOWELL CO. C&D STOCKPILE (Continued) **S105163917**

Facility Status: CLOSED
Public/Private: PUBLIC
Waste Mgmt Specialist: Deb Aja

N56 **MAIN STREET EXXON** **LUST** **S109836904**
NE **14 NORTH MAIN STREET** **N/A**
1/4-1/2 **MARION, NC 28752**
0.303 mi.
1602 ft. **Site 2 of 3 in cluster N**

Relative:
Higher

Actual:
1406 ft.

LUST:
Name: MAIN STREET EXXON
Address: 14 NORTH MAIN STREET
City,State,Zip: MARION, NC 28752
Facility ID: 00-0-000
UST Number: AS-3606
Incident Number: 28743
Source Type: 3
Date Reported: 07/20/2009
Closure Request: Not reported
Close Out: 08/03/2009
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: 2
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: 0
MTBE1: N
Flag: 0
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 9
Current Status: A
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 409
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: MES
Company: JOHN LEWIS HOLDING COMPANY LLC
Telephone: 8286522110
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-3606

MAIN STREET EXXON (Continued) **S109836904**

Facility Id:	28743
Date Occurred:	7/16/2009
Date Reported:	7/20/2009
Owner/Operator:	Not reported
Ownership:	4
Operation Type:	6
Type:	3
Location:	1
Priority Update:	Not reported
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	Y
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	4
Cause:	1
Source:	C
UST Number:	P

N57 **CITY FOOD 10042** **UST** **U003135531**
NE **36 N. MAIN STREET** **LUST TRUST** **N/A**
1/4-1/2 **MARION, NC 28752**
0.313 mi.
1653 ft. **Site 3 of 3 in cluster N**

Relative:
Higher

Actual:
1409 ft.

LUST TRUST:

Name:	CITY FOOD
Address:	36 NORTH MAIN STREET
City,State,Zip:	MARION, NC
Facility ID:	0-013552
Site ID:	11785
Site Note:	Deductible changed to $20,000 instead of 20 + 40% Claim 201 letter show an adjustment to the approved amount.
Site Eligible?:	True
Commercial Find:	100% Commercial
Priority Rank:	Low
Deductable Amount:	20000
3rd Party Deductable Amt:	100000
Sum 3rd Party Amt Applied:	0

UST:

Name:	CITY FOOD 10042
Address:	36 N. MAIN STREET
City,State,Zip:	MARION, NC 28752
Facility Id:	00-0-0000013552
Contact:	PETROLEUM WORLD INC
Contact Address1:	PO BOX 341 681 NC 120 HWY
Contact Address2:	Not reported
Contact City/State/Zip:	MOORESBORO, NC 28114
FIPS County Desc:	McDowell
Latitude:	35.6827
Longitude:	-82.0089

CITY FOOD 10042 (Continued) **U003135531**

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 05/04/1968
Perm Close Date: 11/15/2002
Product Name: Gasoline, Gas Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Tank Id: 1A
Tank Status: Not reported
Installed Date: 05/04/1968
Perm Close Date: 11/15/2002
Product Name: Gasoline, Gas Mix
Tank Capacity: 3000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Tank Id: 2
Tank Status: Not reported
Installed Date: 05/04/1968
Perm Close Date: 11/15/2002
Product Name: Gasoline, Gas Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes

CITY FOOD 10042 (Continued) **U003135531**

Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Tank Id: 3
Tank Status: Not reported
Installed Date: 04/30/1984
Perm Close Date: 11/15/2002
Product Name: Gasoline, Gas Mix
Tank Capacity: 10000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Tank Id: 6
Tank Status: Not reported
Installed Date: 05/04/1968
Perm Close Date: 12/07/1993
Product Name: Kerosene, Kero Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Tank Id: 7
Tank Status: Not reported
Installed Date: 01/01/1964
Perm Close Date: 12/08/1993
Product Name: Kerosene, Kero Mix
Tank Capacity: 4000

CITY FOOD 10042 (Continued) **U003135531**

Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	No
Regulated:	Yes
Other CP Tank:	Not reported
Overfill Protection Name:	Not reported
Spill Protection Name:	Not reported
Leak Detection Name:	Not reported
Decode for TCONS_KEY:	Unknown
Decode for PCONS_KEY:	Unknown
Decode for PSYS_KEY:	Unknown

O58 **MCDOWELL CEMENT** **SEMS-ARCHIVE** **1012043272**
ENE **101 S GARDEN ST** **N/A**
1/4-1/2 **MARION, NC**
0.335 mi.
1770 ft. **Site 1 of 2 in cluster O**

Relative: **Higher**
Actual: **1398 ft.**

SEMS Archive:

Site ID:	0410269
EPA ID:	NCN000410269
Name:	MCDOWELL CEMENT
Address:	101 S GARDEN ST
Address 2:	Not reported
City,State,Zip:	MARION, NC
Cong District:	Not reported
FIPS Code:	37111
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	04
Site ID:	0410269
EPA ID:	NCN000410269
Site Name:	MCDOWELL CEMENT
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	2008-09-29 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	04
Site ID:	0410269
EPA ID:	NCN000410269
Site Name:	MCDOWELL CEMENT
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY

MCDOWELL CEMENT (Continued) **1012043272**

SEQ: 1
Start Date: 2008-05-20 04:00:00
Finish Date: 2008-05-20 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 04
Site ID: 0410269
EPA ID: NCN000410269
Site Name: MCDOWELL CEMENT
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 2008-05-20 04:00:00
Qual: N
Current Action Lead: St Perf

O59 **MCDOWELL CONCRETE PLANT** **LUST** **S126204536**
ENE **101 SOUTH GARDEN STREET** **N/A**
1/4-1/2 **MARION, NC 28752**
0.335 mi.
1770 ft. **Site 2 of 2 in cluster O**

Relative: **Higher**
Actual: **1398 ft.**

LUST:
Name: MCDOWELL CONCRETE PLANT
Address: 101 SOUTH GARDEN STREET
City,State,Zip: MARION, NC 28752
Facility ID: Not reported
UST Number: AS-4707
Incident Number: 41714
Source Type: 3
Date Reported: 10/23/2019
Closure Request: Not reported
Close Out: 02/24/2020
Level Of Soil Cleanup Achieved: S1
Of Supply Wells: 0
Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: RES
MTBE: 0
MTBE1: U
Flag: 1
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 5
Current Status: C
RBCA GW: Not reported

MCDOWELL CONCRETE PLANT (Continued) **S126204536**

PETOPT: 5
RPL: False
CD Num: 0
Reel Num: 0
RPOW: True
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: dpm
Company: chandler concrete company, inc
Telephone: Not reported
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-4707
Facility Id: 41714
Date Occurred: Not reported
Date Reported: Not reported
Owner/Operator: Not reported
Ownership: 4
Operation Type: 6
Type: 5
Location: 1
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 7
Source: G
UST Number: B

LUST:
Incident Number: 41714
Last Modified: 2/24/2020
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

P60 **CITY FOOD** **LUST** **S105892890**
NE **N. MAIN ST & FORT ST** **IMD** **N/A**
1/4-1/2 **MARION, NC**
0.344 mi.
1816 ft. **Site 1 of 2 in cluster P**

Relative:
Higher

Actual:
1431 ft.

LUST:

Name:	CITY FOOD
Address:	N. MAIN ST & FORT ST
City,State,Zip:	MARION, NC
Facility ID:	0-013552
UST Number:	AS-1111
Incident Number:	11785
Source Type:	3
Date Reported:	12/08/1993
Closure Request:	Not reported
Close Out:	Not reported
Level Of Soil Cleanup Achieved:	S2
# Of Supply Wells:	Not reported
Commercial/NonCommercial UST Site:	C
Risk Classification:	I
Risk Class Based On Review:	I
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	20 E
Phase Of LSA Req:	2
Site Risk Reason:	G
Land Use:	Not reported
MTBE:	Not reported
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	6
Current Status:	C
RBCA GW:	Not reported
PETOPT:	Not reported
RPL:	False
CD Num:	0
Reel Num:	0
RPOW:	True
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	STF
Company:	PETROLEUM WORLD, INC.
Telephone:	Not reported
5 Min Quad:	Not reported

LUST:

ERR Type:	Not reported
UST Number:	AS-1111
Facility Id:	11785
Date Occurred:	12/8/1993
Date Reported:	2/25/1994
Owner/Operator:	DEBBIE SAILORS
Ownership:	4
Operation Type:	6

CITY FOOD (Continued) **S105892890**

Type: 5
Location: 1
Priority Update: 4/15/1998
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 3
5 Minute Quad: 2
Pirf/Min Soil: Not reported
Release Code: L80T
Source Code: Pirf
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 11785
Last Modified: 3/22/1994
Incident Phase: FU
NOV Issued: 1/28/1994
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

IMD:
Facility ID: 11785
Name: CITY FOOD
Address: N. MAIN ST & FORT ST
City,State,Zip: MARION, NC
Date Occurred: 12/8/1993
Submit Date: 2/25/1994
Incident Desc: UPON REMOVAL OF UST, CONTAM. SOIL WAS FOUND.
Operator: DEBBIE SAILORS
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 6
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Commercial
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1

CITY FOOD (Continued) **S105892890**

Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: 20 E
Whether Tank is Regulated: Not reported
Priority Update: 4/15/1998
Notice of Regulatory Requirement: Not reported
Wells Affected: N
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: 3
Samples Include: 2
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: L80T
Intermediate Condition Present: Not reported
Latitude: 35.69444444
Longitude: -82.01
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 11785
Last Modified: 1994-03-22 00:00:00
Incident Phase: FU
NOV Issued: 1994-01-28 00:00:00
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

61
East
1/4-1/2
0.353 mi.
1866 ft.

GTE-MARION
20 NORTH GARDEN ST.
MARION, NC

IMD **S105893619**
N/A

Relative:
Higher

Actual:
1400 ft.

IMD:

Facility ID:	10363
Name:	GTE-MARION
Address:	20 NORTH GARDEN ST.
City,State,Zip:	MARION, NC
Date Occurred:	4/13/1993
Submit Date:	6/23/1993
Incident Desc:	MINOR PETROLEUM HYDROCARBON SOIL CONTAMINATION DETECTED DURING REMOVAL OF UST AT SITE
Operator:	Not reported
UST ID:	Not reported
Incident ID:	Not reported
Initials of UST Regional Contact:	Not reported
Regional Office:	Not reported
Responsible Party/Company Name:	Not reported
Ownership:	4
Responsible Party Contact Name:	Not reported
Operation:	0
Responsible Party Mailing Address:	Not reported
Responsible Party City,State,Zip:	Not reported
Ownership:	Private
Operation Type:	Not reported
Responsible Party County:	Not reported
Source of Contamination:	GASOLINE/DIESEL/KEROSENE
Source:	3
Type:	3
Location:	1
Petroleum Type:	Not reported
Date Incident Reported:	Not reported
Whether Tank is Commercial or Non Commercial:	Not reported
Site Priority:	Not reported
Whether Tank is Regulated:	Not reported
Priority Update:	Not reported
Notice of Regulatory Requirement:	Not reported
Wells Affected:	Not reported
Notice of Violation:	Not reported
Phase 1 or Phase 2:	Not reported
Num Affected:	0
Site Priority:	Not reported
Type:	GASOLINE/DIESEL
Location:	Facility
Current Risk Condition:	Not reported
Sampled By:	Not reported
Samples Include:	Not reported
Initial reported risk of incident (never changes):	Not reported
7.5 Min Quad:	Not reported
5 Min Quad:	Not reported
Intermediate Condition Present:	Not reported
Latitude:	35.68916666
Longitude:	-82.01055555
Use of Land, Industrial:	Not reported
Corrective Action Plan Selected - up to 5:	Not reported
RBCA:	Not reported

GTE-MARION (Continued) **S105893619**

Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 10363
Last Modified: 1993-07-13 00:00:00
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1993-06-21 00:00:00

P62 **KEHLER'S #6 (BP)** **LUST S106349121**
NE **336 NORTH MAIN STREET** **IMD N/A**
1/4-1/2 **MARION, NC 28752**
0.363 mi.
1914 ft. **Site 2 of 2 in cluster P**

Relative: **Higher**
Actual: **1438 ft.**

LUST:
Name: KEHLER'S #6 (BP)
Address: 336 NORTH MAIN STREET
City,State,Zip: MARION, NC 28752
Facility ID: 0-034880
UST Number: AS-1531
Incident Number: 16768
Source Type: 3
Date Reported: 11/19/1996
Closure Request: Not reported
Close Out: 06/23/1998
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported

KEHLER'S #6 (BP) (Continued) **S106349121**

Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: U
Flag: 0
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 9
Current Status: A
RBCA GW: G2
PETOPT: Not reported
RPL: False
CD Num: 102
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: QQ
Company: Z
Telephone: 1111111111
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-1531
Facility Id: 16768
Date Occurred: 11/19/1996
Date Reported: 1/29/1997
Owner/Operator: BILL KEHLER
Ownership: 4
Operation Type: 6
Type: 3
Location: 1
Priority Update: 4/15/1998
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: 3
5 Minute Quad: 1
Pirf/Min Soil: Not reported
Release Code: L80M
Source Code: Pirf
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 16768
Last Modified: 3/25/1999
Incident Phase: CO
NOV Issued: 1/15/1997
NORR Issued: Not reported

KEHLER'S #6 (BP) (Continued) **S106349121**

45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 6/23/1998

IMD:
Facility ID: 16768
Name: KEHLER'S #6 (BP)
Address: 336 NORTH MAIN STREET
City,State,Zip: MARION, NC
Date Occurred: 11/19/1996
Submit Date: 1/29/1997
Incident Desc: ENVIRONMENTAL ASSESSMENT CONFIRMED SOIL AND GW CONTAMINATION. NO WATER WELLS IN THE AREA.
Operator: z
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 6
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Commercial
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3
Type: 3
Location: 1
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: 25 B
Whether Tank is Regulated: Not reported
Priority Update: 4/15/1998
Notice of Regulatory Requirement: Not reported
Wells Affected: N
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: 0
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Facility
Current Risk Condition: Not reported
Sampled By: 3
Samples Include: 1
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: L80M
Intermediate Condition Present: Not reported

KEHLER'S #6 (BP) (Continued) **S106349121**

Latitude: 35.70555555
Longitude: -82.03555555
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 16768
Last Modified: 1999-03-25 00:00:00
Incident Phase: CO
NOV Issued: 1997-01-15 00:00:00
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1998-06-23 00:00:00

63
NE
1/4-1/2
0.377 mi.
1993 ft.

CONTEL OF NC MAIN & CENTRAL OFF. **UST U003137368**
20 NORTH GARDEN STREET **LUST N/A**
MARION, NC 28752

Relative: Higher

Actual: 1399 ft.

LUST:
Name: GTE-MARION
Address: 20 NORTH GARDEN ST.
City,State,Zip: MARION, NC 28752
Facility ID: 00-0-000
UST Number: AS-919
Incident Number: 10363
Source Type: 3
Date Reported: 04/13/1993
Closure Request: Not reported
Close Out: 06/21/1993
Level Of Soil Cleanup Achieved: Not reported
Of Supply Wells: Not reported

CONTEL OF NC MAIN & CENTRAL OFF. (Continued) **U003137368**

Commercial/NonCommercial UST Site: C
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: U
Flag: 0
Flag1: 0
LUR Filed: Not reported
GPS Confirmed: 6
Current Status: A
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 46
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Testlat: Not reported
Regional Officer Project Mgr: MES
Company: Not reported
Telephone: Not reported
5 Min Quad: Not reported

LUST:
ERR Type: Not reported
UST Number: AS-919
Facility Id: 10363
Date Occurred: 4/13/1993
Date Reported: 4/13/1993
Owner/Operator: KAREN VAN- ENVIRONMENTAL COORD
Ownership: 4
Operation Type: 0
Type: 3
Location: 1
Priority Update: Not reported
Wells Affected Y/N: n
Samples Include: 0
7#5 Minute Quad: N
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Min_Soil
Err Type: 2
Cause: 7
Source: G
UST Number: P

LUST:

CONTEL OF NC MAIN & CENTRAL OFF. (Continued) **U003137368**

Incident Number: 10363
Last Modified: 7/13/1993
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 6/21/1993

UST:
Name: CONTEL OF NC MAIN & CENTRAL OFF.
Address: 20 NORTH GARDEN STREET
City,State,Zip: MARION, NC 28752
Facility Id: 00-0-0000021083
Contact: GTE SOUTH/ ENV COMPLIANCE
Contact Address1: PO BOX 110 MC-711
Contact Address2: Not reported
Contact City/State/Zip: TAMPA, FL 33601-0110
FIPS County Desc: McDowell
Latitude: 35.68519
Longitude: -82.0075

Click here to access the North Carolina DEQ records for this facility:

Tank Id: 1
Tank Status: Not reported
Installed Date: 04/22/1982
Perm Close Date: 04/13/1993
Product Name: Diesel
Tank Capacity: 500
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Not reported
Spill Protection Name: Not reported
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Unknown
Decode for PSYS_KEY: Unknown

64
NE
1/4-1/2
0.489 mi.
2584 ft.

MOUNTAINVIEW FACILITY-LAP CARE
250 MADISON ST
MARION, NC

LUST **S103717139**
IMD **N/A**

Relative:
Higher

Actual:
1443 ft.

LUST:

Name:	MOUNTAINVIEW FACILITY-LAP CARE
Address:	250 MADISON ST
City,State,Zip:	MARION, NC
Facility ID:	Not reported
UST Number:	AS-1694
Incident Number:	18840
Source Type:	3
Date Reported:	05/15/1998
Closure Request:	Not reported
Close Out:	07/28/1998
Level Of Soil Cleanup Achieved:	S3
# Of Supply Wells:	Not reported
Commercial/NonCommercial UST Site:	C
Risk Classification:	L
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	Not reported
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	9
Current Status:	A
RBCA GW:	Not reported
PETOPT:	4
RPL:	False
CD Num:	102
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Company:	Not reported
Telephone:	Not reported
5 Min Quad:	Not reported

LUST:

ERR Type:	Not reported
UST Number:	AS-1694
Facility Id:	18840
Date Occurred:	5/15/1998
Date Reported:	7/28/1998
Owner/Operator:	KIM SMITH
Ownership:	4
Operation Type:	0

MOUNTAINVIEW FACILITY-LAP CARE (Continued) **S103717139**

Type: 4
Location: 8
Priority Update: 8/4/1998
Wells Affected Y/N: Not reported
Samples Include: Not reported
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Min_Soil
Err Type: Not reported
Cause: Not reported
Source: Not reported
UST Number: Not reported

LUST:
Incident Number: 18840
Last Modified: 10/6/1998
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 7/28/1998

IMD:
Facility ID: 18840
Name: MOUNTAINVIEW FACILITY-LAP CARE
Address: 250 MADISON ST
City,State,Zip: MARION, NC
Date Occurred: 5/15/1998
Submit Date: 7/28/1998
Incident Desc: MINOR SOIL CONTAM. REVEALED DURING CLOSURE OF 1000 GAL HEATING OIL UST; ALL LEVELS BELOW RESIDENTIAL OR SOIL TO GW MAXIMUMS; NO FURTHER ACTION LETTER SENT
Operator: Not reported
UST ID: Not reported
Incident ID: Not reported
Initials of UST Regional Contact: Not reported
Regional Office: Not reported
Responsible Party/Company Name: Not reported
Ownership: 4
Responsible Party Contact Name: Not reported
Operation: 0
Responsible Party Mailing Address: Not reported
Responsible Party City,State,Zip: Not reported
Ownership: Private
Operation Type: Not reported
Responsible Party County: Not reported
Source of Contamination: GASOLINE/DIESEL/KEROSENE
Source: 3

MOUNTAINVIEW FACILITY-LAP CARE (Continued) **S103717139**

Type: 3
Location: 8
Petroleum Type: Not reported
Date Incident Reported: Not reported
Whether Tank is Commercial or Non Commercial: Not reported
Site Priority: Not reported
Whether Tank is Regulated: Not reported
Priority Update: 8/4/1998
Notice of Regulatory Requirement: Not reported
Wells Affected: Not reported
Notice of Violation: Not reported
Phase 1 or Phase 2: Not reported
Num Affected: Not reported
Site Priority: Not reported
Type: GASOLINE/DIESEL
Location: Other
Current Risk Condition: Not reported
Sampled By: Not reported
Samples Include: Not reported
Initial reported risk of incident (never changes): Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Intermediate Condition Present: Not reported
Latitude: 35.68861111
Longitude: -82.00805555
Use of Land, Industrial: Not reported
Corrective Action Plan Selected - up to 5: Not reported
RBCA: Not reported
Date Close Review Requested From RP or Owner: Not reported
Date Case Closed: Not reported
Extent of Contamination: Not reported
Number of Supply Wells Located on Property: Not reported
MTBE in Well Y/N/U Yes, No or Unknown: Not reported
Facility Phone Number: Not reported
MTBE in Groundwater Y/N/U Yes, No or Unknown: Not reported
Date Land Use Restriction Filed: Not reported
Date Cleanup Initiated: Not reported
Record Status: Not reported
RBCA GW Codes: Not reported
RBCA GW: Not reported
Pollutant Type Present: Not reported
Reference Number for Media Disk for Archived Record: Not reported
RP Owner?: Not reported
RP Operator?: Not reported
RP Landowner?: Not reported

Status:
Facility ID: 18840
Last Modified: 1998-10-06 00:00:00
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported

MOUNTAINVIEW FACILITY-LAP CARE (Continued) **S103717139**

Closure Request Date: Not reported
Close-out Report: 1998-07-28 00:00:00

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MARION	S125087954	CROSS EUGENE & CO	CARSON		DRYCLEANERS
MARION	S125088910	HOLIDAY CLEANERS	COR LOGAN & W FORT ST	28752	DRYCLEANERS
MARION	S125088911	MODERN DRY CLEANERS	E COURT ST	28752	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/19/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 71

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 06/21/2022
Number of Days to Update: 6

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/20/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority List as well as those on the state priority list.

Date of Government Version: 08/09/2011
Date Data Arrived at EDR: 11/08/2011
Date Made Active in Reports: 12/05/2011
Number of Days to Update: 27

Source: North Carolina Center for Geographic Information and Analysis
Telephone: 919-754-6580
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: No Update Planned

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Sites Inventory

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 06/08/2022
Number of Days to Update: 1

Source: Department of Environment, Health and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: List of Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/12/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/11/2022
Number of Days to Update: 85

Source: Department of Environment and Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 09/22/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

DEBRIS: Solid Waste Active Disaster Debris Sites Listing

NCDEQ Division of Waste Management Solid Waste Section Temporary Disaster Debris Staging Site (TDDSS) Locations which are available to be activated in a disaster or emergency.. Disaster Debris Sites can only be used for temporary disaster debris storage if the site's responsible party activates the site for use by notifying the NCDEQ DWM Solid Waste Section staff during an emergency

Date of Government Version: 06/13/2022
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 77

Source: Department of Environmental Quality
Telephone: 919-707-8247
Last EDR Contact: 09/12/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Varies

OLI: Old Landfill Inventory
Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/30/2020
Number of Days to Update: 82
Source: Department of Environment & Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

LCID: Land-Clearing and Inert Debris (LCID) Landfill Notifications
A list all of the Land-Clearing and Inert Debris (LCID) Landfill Notification facilities (under 2 acres in size) in North Carolina.

Date of Government Version: 07/05/2022
Date Data Arrived at EDR: 07/06/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 75
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tank site locations.

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 07/26/2022
Number of Days to Update: 83
Source: Department of Environment & Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

LUST: Regional UST Database
This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 07/26/2022
Number of Days to Update: 83
Source: Department of Environment and Natural Resources
Telephone: 919-707-8200
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

LUST TRUST: State Trust Fund Database
This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 07/01/2022
Date Data Arrived at EDR: 07/06/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 75

Source: Department of Environment and Natural Resources
Telephone: 919-733-1315
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Quarterly

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

UST: Petroleum Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 07/22/2022
Number of Days to Update: 79
Source: Department of Environment and Natural Resources
Telephone: 919-733-1308
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

AST: AST Database
Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 05/17/2022
Date Data Arrived at EDR: 06/10/2022
Date Made Active in Reports: 08/29/2022
Number of Days to Update: 80
Source: Department of Environment and Natural Resources
Telephone: 919-715-6183
Last EDR Contact: 09/08/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring

A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/25/2022
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 919-508-8400
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

VCP: Responsible Party Voluntary Action Sites
Responsible Party Voluntary Action site locations.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/25/2022
Number of Days to Update: 79

Source: Department of Environment and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Projects Inventory
A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liabitliy control.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/27/2022
Date Made Active in Reports: 06/29/2022
Number of Days to Update: 2

Source: Department of Environment and Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/09/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Center Listing
A listing of recycling center locations.

Date of Government Version: 01/31/2022
Date Data Arrived at EDR: 02/02/2022
Date Made Active in Reports: 04/29/2022
Number of Days to Update: 86

Source: Department of Environment & Natural Resources
Telephone: 919-707-8137
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Listing
A listing of solid waste facilities.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Listing

List of PFAS facilities

Date of Government Version: 05/18/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/08/2022
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 919-707-8233
Last EDR Contact: 07/27/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

SPILLS: Spills Incident Listing

A listing spills, hazardous material releases, sanitary sewer overflows, wastewater treatment plant bypasses and upsets, citizen complaints, and any other environmental emergency calls reported to the agency.

Date of Government Version: 06/21/2022
Date Data Arrived at EDR: 06/22/2022
Date Made Active in Reports: 07/01/2022
Number of Days to Update: 9

Source: Department of Environment & Natural Resources
Telephone: 919-807-6308
Last EDR Contact: 09/22/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

IMD: Incident Management Database
Groundwater and/or soil contamination incidents

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 07/25/2022
Number of Days to Update: 82

Source: Department of Environment and Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch
Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 06/14/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/20/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/12/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 69
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2022
Date Data Arrived at EDR: 07/21/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 71

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 08/01/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 59

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 68

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/25/2022
Date Data Arrived at EDR: 07/01/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/30/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

AIRS: Air Quality Permit Listing

A listing of facilities with air quality permits.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/25/2022
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 919-707-8726
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

ASBESTOS: ASBESTOS
Asbestos notification sites

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/08/2022
Number of Days to Update: 83

Source: Department of Health & Human Services
Telephone: 919-707-5973
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 11/12/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/11/2022
Number of Days to Update: 85

Source: Department of Environment & Natural Resources
Telephone: 919-807-6359
Last EDR Contact: 09/22/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites
Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 12/06/2021
Date Data Arrived at EDR: 12/13/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 74

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 09/16/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 07/22/2022
Number of Days to Update: 79

Source: Department of Environment & Natural Resources
Telephone: 919-733-1322
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/03/2012
Date Made Active in Reports: 10/26/2012
Number of Days to Update: 23

Source: Department of Environmental & Natural Resources
Telephone: 919-508-8496
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information
Hazardous waste financial assurance information.

Date of Government Version: 01/12/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 06/03/2022
Number of Days to Update: 85
Source: Department of Environment & Natural Resources
Telephone: 919-707-8222
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing
General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 04/01/2022
Date Data Arrived at EDR: 04/27/2022
Date Made Active in Reports: 07/18/2022
Number of Days to Update: 82
Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing
A listing of uncerground injection wells locations.

Date of Government Version: 02/22/2022
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 05/27/2022
Number of Days to Update: 87
Source: Department of Environment & Natural Resources
Telephone: 919-807-6412
Last EDR Contact: 09/01/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

AOP: Animal Operation Permits Listing
This listing includes animal operations that are required to be permitted by the state.

Date of Government Version: 04/01/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 05/27/2020
Number of Days to Update: 1
Source: Department of Environmental Quality
Telephone: 919-707-9129
Last EDR Contact: 09/09/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

SEPT HAULERS: Permitted Septage Haulers Listing
This list of all active and permitted Septage Land Application Site (SLAS) and Septage Detention and Treatment Facility (SDTF) sites in North Carolina. The purpose of this map is to provide the public and government entities a visual overview of the businesses that manage septage and septage facilities throughout the state.

Date of Government Version: 07/07/2022
Date Data Arrived at EDR: 07/07/2022
Date Made Active in Reports: 07/19/2022
Number of Days to Update: 12
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

CCB: Coal Ash Structural Fills (CCB) Listing
These are not permitted Coal Ash landfills A list all of the now closed Coal Ash Structural Fills (CCB) in North Carolina, in point data form. The purpose is to provide the public and other government entities a visual overview of coal ash structural fills throughout the state and increase public awareness of their current locations.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 07/02/2021
Date Made Active in Reports: 09/27/2021
Number of Days to Update: 87
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

PCSRP: Petroleum-Contaminated Soil Remediation Permits
To treat petroleum-contaminated soil in order to protect North Carolinaa??s environment and the health of the citizens of North Carolina.

Date of Government Version: 07/05/2022
Date Data Arrived at EDR: 07/06/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 75
Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/20/2013
Number of Days to Update: 172

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Health & Human Services
Telephone: 919-662-4499

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BLUE RIDGE STREET
BLUE RIDGE STREET
MARION, NC 28752

TARGET PROPERTY COORDINATES

Latitude (North):	35.680095 - 35ˆ 40’ 48.34’’
Longitude (West):	82.014688 - 82ˆ 0’ 52.88’’
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	408177.0
UTM Y (Meters):	3948742.0
Elevation:	1396 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	13742050 MARION WEST, NC
Version Date:	2019
East Map:	13839794 MARION EAST, NC
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

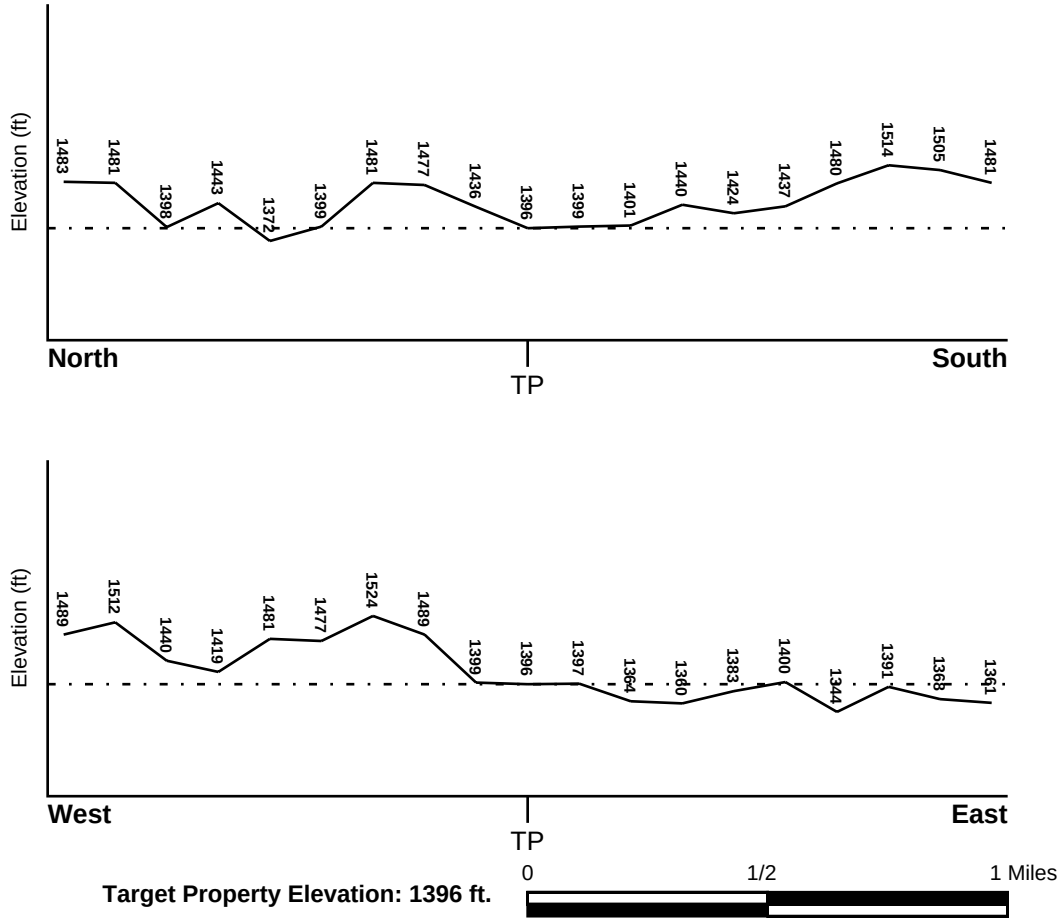
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1396 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3710170000J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3710170200J	FEMA FIRM Flood data
3710079100J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MARION WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

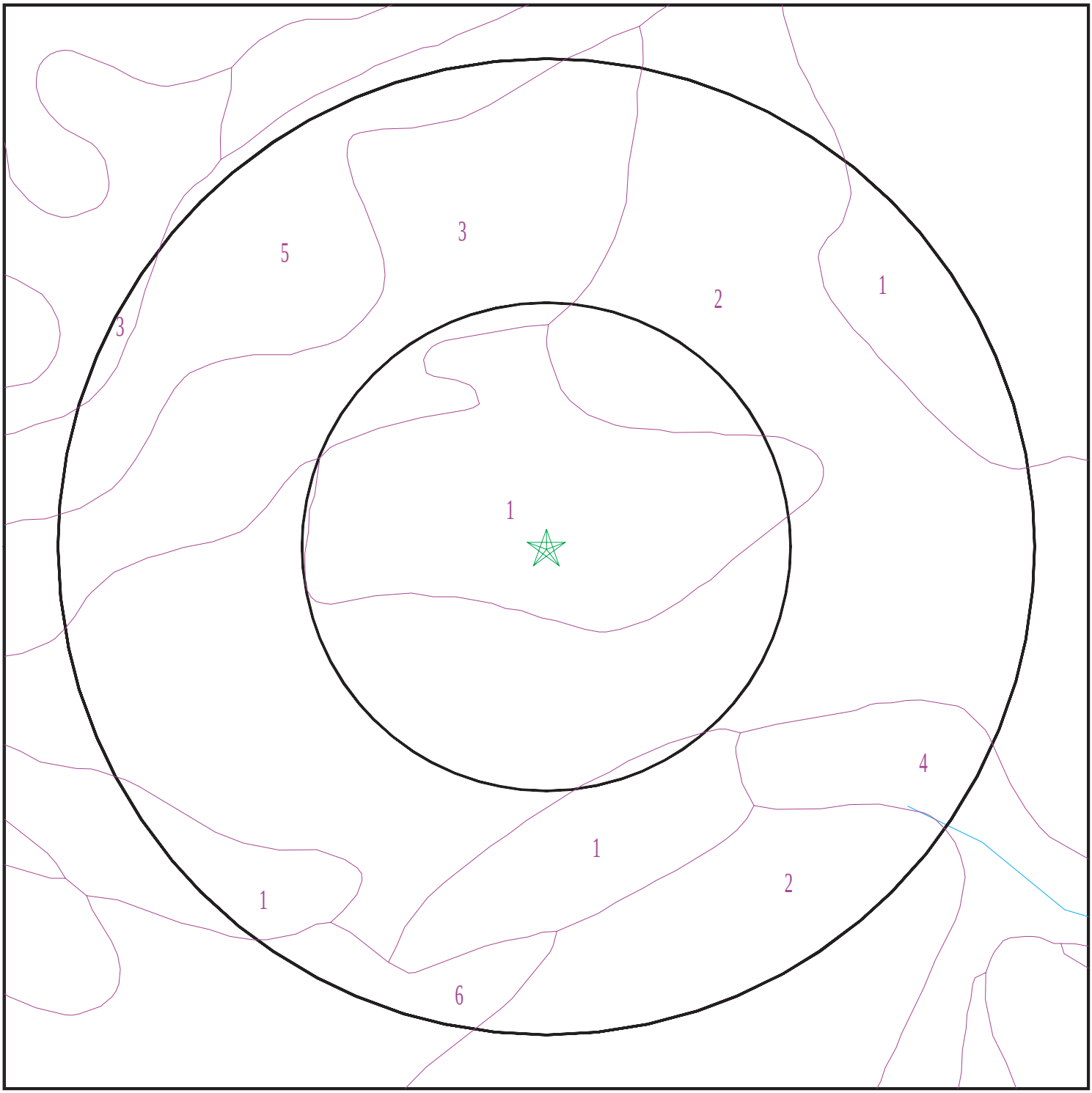
Era:	Paleozoic
System:	Pennsylvanian
Series:	Felsic paragneiss and schist
Code:	mm1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7146273.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Blue Ridge Street	CLIENT:	ECS Southeast, LLP
ADDRESS:	Blue Ridge Street Marion NC 28752	CONTACT:	Jennifer Brumbaugh
LAT/LONG:	35.680095 / 82.014688	INQUIRY #:	7146273.2s
		DATE:	October 31, 2022 1:40 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name:	Hayesville
Soil Surface Texture:	clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Unknown	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
2	3 inches	24 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
3	24 inches	31 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	31 inches	59 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5

Soil Map ID: 3

Soil Component Name: Hayesville

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
2	5 inches	24 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
3	24 inches	48 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	48 inches	59 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5

Soil Map ID: 4

Soil Component Name: Iotla

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 54 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.1
2	9 inches	31 inches		Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.1
3	31 inches	35 inches		Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.1
4	35 inches	59 inches		Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.1

Soil Map ID: 5

Soil Component Name: Evard

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:
2	5 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	35 inches	44 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:
4	44 inches	61 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:
5	61 inches	66 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 14 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: Hayesville

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
2	5 inches	24 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
3	24 inches	48 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5
4	48 inches	59 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 3.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000889490	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	NC0156492	1/4 - 1/2 Mile NE

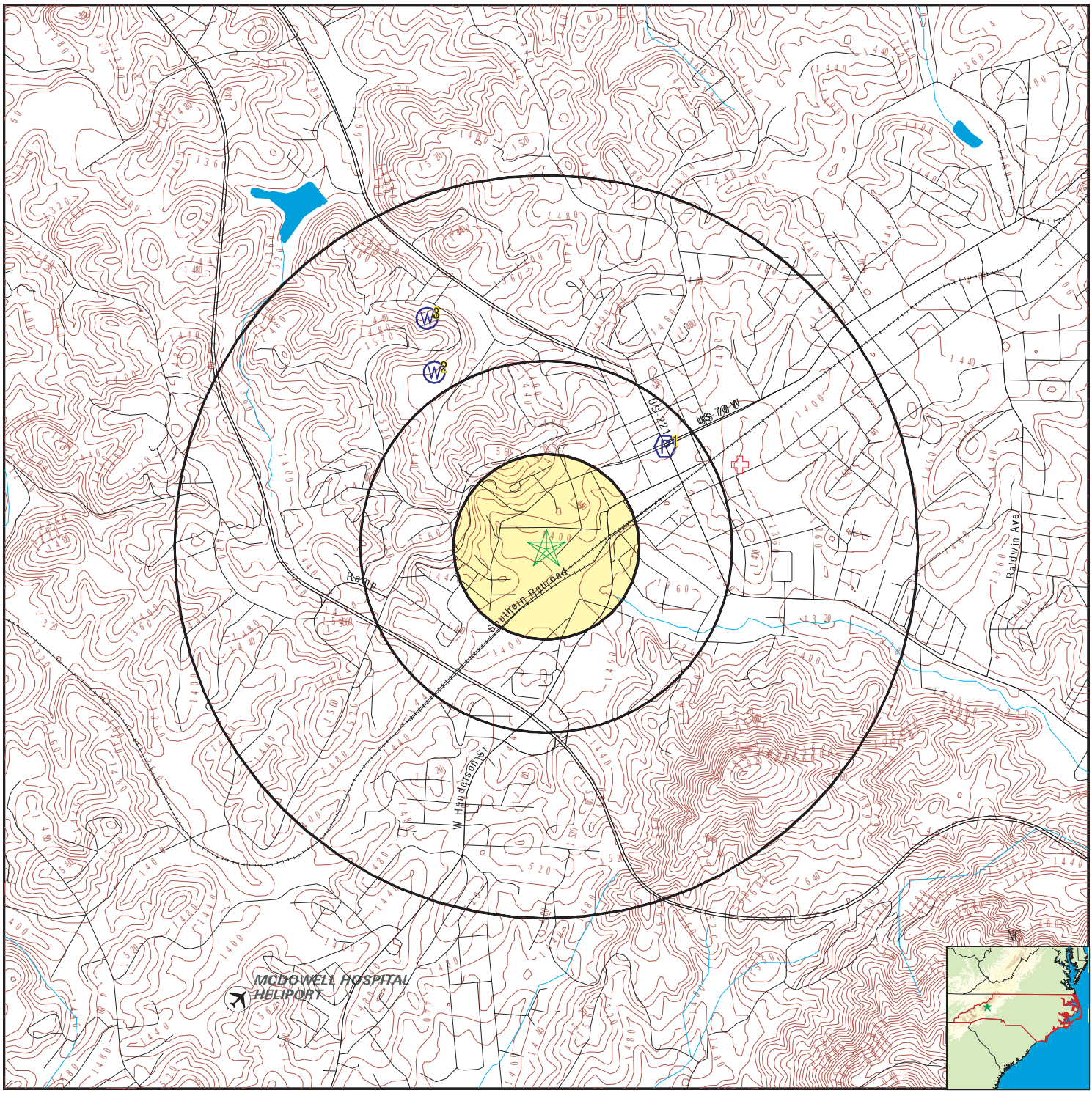
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	NC2000000005468	1/2 - 1 Mile NNW

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE MAP - 7146273.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Wildlife Areas
- Natural Areas
- Rare & Endangered Species

N

SITE NAME:	Blue Ridge Street	CLIENT:	ECS Southeast, LLP
ADDRESS:	Blue Ridge Street Marion NC 28752	CONTACT:	Jennifer Brumbaugh
LAT/LONG:	35.680095 / 82.014688	INQUIRY #:	7146273.2s
		DATE:	October 31, 2022 1:40 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1		
NE	**FRDS PWS**	**NC0156492**
1/4 - 1/2 Mile		
Higher		

Epa region:	04	State:	NC
Pwsid:	NC0156492	Pwsname:	BAXTER HEALTH CARE CORP
Cityserved:	Not Reported	Stateserved:	NC
Zipserved:	Not Reported	Fipscounty:	37111
Status:	Active	Retpopsrvd:	2086
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	GOUGE, STEVE	Contactorgname:	GOUGE, STEVE
Contactphone:	828-756-6608	Contactaddress1:	PO BOX 1390
Contactaddress2:	Not Reported	Contactcity:	MARION
Contactstate:	NC	Contactzip:	28752
Pwsactivitycode:	A		
Pwsid:	NC0156492	Facid:	5445
Facname:	TREATMENT_PLT_WELLS 1-3-5-9-11-12		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, post
Factypecode:	TP		
PWS ID:	NC0156492	PWS type:	System Owner/Responsible Party
PWS name:	MR PHIL CASTOR OR ENVIR MGR		
PWS address:	Not Reported	PWS city:	MARION
PWS state:	NC	PWS zip:	28752
PWS ID:	NC0156492	PWS type:	System Owner/Responsible Party
PWS name:	TRAVENOL LABS INC.	PWS address:	Not Reported
PWS city:	MARION	PWS state:	NC
PWS zip:	28752	PWS name:	BAXTER HEALTH CARE CORP
PWS type code:	NTNC	Retail population served:	2086
Contact:	GOUGE, STEVE	Contact address:	PO BOX 1390
Contact address:	MARION	Contact city:	NC
Contact state:	28	Contact zip:	828-756-66
Contact telephone:	Not Reported		
PWS ID:	NC0156492	Activity status:	Active
Date system activated:	8305	Date system deactivated:	Not Reported
Retail population:	00002300	System name:	TRAVENOL LABORATORIES INC
System address:	Not Reported	System city:	NORTH COVE
System state:	NC	System zip:	28752
County FIPS:	056	City served:	NORTH COVE
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	354102	Longitude:	0820033
Latitude:	355030	Longitude:	0815900
Latitude:	355030	Longitude:	0815900
Latitude:	355030	Longitude:	0815900
Latitude:	355030	Longitude:	0815900
Latitude:	355030	Longitude:	0815900

Violation id:	105	Orig code:	S
State:	NC	Violation Year:	2005
Contamination code:	0999	Contamination Name:	Chlorine
Violation code:	27	Violation name:	Monitoring and Reporting (DBP)
Rule code:	210	Rule name:	St1 DBP
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2005
Cmp edt:	03/31/2005		

Violation id:	172815	Orig code:	S
State:	NC	Violation Year:	2013
Contamination code:	3014	Contamination Name:	E. COLI
Violation code:	34	Violation name:	Monitoring, Source Water (GWR)
Rule code:	140	Rule name:	GWR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	08/30/2013
Cmp edt:	Not Reported		

Violation id:	205	Orig code:	S
State:	NC	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	02/01/2005
Cmp edt:	02/28/2005		

Violation ID:	105	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	03/31/2005
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	105	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	03/31/2005
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	105	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	04/25/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	172815	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	11/20/2013
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		

Violation ID:	172815	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	12/17/2013
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	172815	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	11/20/2013
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	172815	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	11/20/2013
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	03/31/2005
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	04/25/2005

Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	03/31/2005
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	BAXTER HEALTH CARE CORP	Population served:	2086
PWS type code:	NTNC	Violation ID:	105
Contaminant:	0999	Violation type:	27
Compliance start date:	1/1/2005 0:00:00	Compliance end date:	3/31/2005 0:00:00
Enforcement date:	3/31/2005 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BAXTER HEALTH CARE CORP	Population served:	2086
PWS type code:	NTNC	Violation ID:	105
Contaminant:	0999	Violation type:	27
Compliance start date:	1/1/2005 0:00:00	Compliance end date:	3/31/2005 0:00:00
Enforcement date:	3/31/2005 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BAXTER HEALTH CARE CORP	Population served:	2086
PWS type code:	NTNC	Violation ID:	105
Contaminant:	0999	Violation type:	27
Compliance start date:	1/1/2005 0:00:00	Compliance end date:	3/31/2005 0:00:00
Enforcement date:	4/25/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	BAXTER HEALTH CARE CORP	Population served:	2086
PWS type code:	NTNC	Violation ID:	205
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Minor (TCR)
Compliance start date:	2/1/2005 0:00:00	Compliance end date:	2/28/2005 0:00:00
Enforcement date:	3/31/2005 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BAXTER HEALTH CARE CORP	Population served:	2086
PWS type code:	NTNC	Violation ID:	205
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Minor (TCR)
Compliance start date:	2/1/2005 0:00:00	Compliance end date:	2/28/2005 0:00:00
Enforcement date:	3/31/2005 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BAXTER HEALTH CARE CORP	Population served:	2086
PWS type code:	NTNC	Violation ID:	205
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Minor (TCR)
Compliance start date:	2/1/2005 0:00:00	Compliance end date:	2/28/2005 0:00:00
Enforcement date:	4/25/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

2
NNW
1/2 - 1 Mile
Higher

NC WELLS **NC2000000005468**

PWS ID:	NC0156545	System Name:	MAPLE LEAF SPORTS COMPLEX
PWS Type:	NC	Primary Source:	GW
Water Type:	GW	Facility Name:	WELL #1
Well Depth:	146	Owner:	MCDOWELL CO. PARKS & REC_156545

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	**USGS40000889490**

3
NNW
1/2 - 1 Mile
Higher

Organization ID:	USGS-NC		
Organization Name:	USGS North Carolina Water Science Center		
Monitor Location:	MC-024	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Mafic Gneiss	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	325
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1967
Feet below surface:	80	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

NC_NHEO NC50015039

Elclass:	N	Precision1:	G
Eostat:	H	Gisid:	22606
Edr id:	NC50015039		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
18	3.19	0.6	8.5
2	1.80	1	2.6

Federal EPA Radon Zone for MCDOWELL County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 28752

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.400 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.600 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: US Fish & Wildlife Service
Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells
Source: Department of Environmental Health
Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

North Carolina Wildlife Resources/Game Lands
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites
Source: Natural Heritage Occurrence Sites Center for Geographic Information and Analysis
Telephone: 919-733-2090
A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

NC Natural Areas: Significant Natural Heritage Areas
Source: Center for Geographic Information and Analysis
Telephone: 919-733-2090
A polygon converage identifying sites (terrestrial or aquatic) that have particular biodiversity significance. A site's significance may be due to the presenceof rare species, rare or high quality natural communities, or other important ecological features.

RADON

State Database: NC Radon
Source: Department of Environment & Natural Resources
Telephone: 919-733-4984
Radon Statistical and Non Statiscal Data

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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MCCO
DREXEL HERITAGE FURNISHINGS
FCH 5/17/93

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

CAROLINA BUSINESS CENTER
2848 I-85 SOUTH, SUITE H
CHARLOTTE, NC 28208
(704) 394-6913
1-800-395-5220
FAX: (704) 394-6968

May 14, 1993

MASLO

Mr. Fred Hankinson
Department of Environment, Health and Natural Resources
Division of Environmental Management
Groundwater Section
Asheville Regional Office
59 Woodfin Place
Asheville, North Carolina 28801

GW

Reference: Two Underground Storage Tank Closure Reports
Drexel Heritage Furnishings
Plant 2, Marion, North Carolina
Plant 43, Hildebran, North Carolina

Dear Mr. Hankinson,

Enclosed you will find one bound copy of each of the above referenced report. Please call Steven M. Burrows with any comments or questions.

Sincerely,

Lynn M. Trenning
Project Coordinator

Good
Steve Burrows
wait on
new analysis
soil brings
PURE
Thanks

RECEIVED
MAY 17 1993
Groundwater Section
Asheville Regional Office

Underground Storage Tank Closure Report
Drexel Heritage Furnishings, Inc.
Plant #2
Marion, North Carolina

Shield Job Number 930020

April 23, 1993

Prepared For:

Drexel Heritage Furnishings, Inc.
Morganton, North Carolina

RECEIVED
MAY 17 1993
GROUNDWATER SECTION
ASHEVILLE REGIONAL OFFICE

Prepared By:

Shield Environmental Associates, Inc.
Charlotte, North Carolina

Underground Storage Tank Closure Report
Drexel Heritage Furnishings, Inc.
Plant #2
Marion, North Carolina

Shield Job Number 930020

April 23, 1993

1 Introduction

1.1 Background

Drexel Heritage Furnishings, Inc. (Drexel) owns and operates a furniture manufacturing facility located in Marion, North Carolina (see Figure 1 for site location). During late 1992 and early 1993, Drexel retained STAT, Inc. (STAT) of Lenoir, North Carolina to excavate and remove four underground storage tanks (USTs) at the facility. Subsequently, Drexel contracted Shield Environmental Associates, Inc. (Shield) to prepare a UST closure report for the site. The following report addresses the STAT UST closure activities, STAT's UST closure soil sampling results and Shield's conclusions and recommendations regarding the site.

1.2 UST Capacities, Contents, and Locations

The USTs that were closed consisted of one 1,000 gallon capacity diesel fuel tank, one 6,000 gallon capacity lacquer thinner tank, one 8,000 gallon capacity naptha tank, and one 550 gallon unleaded gasoline tank.

The diesel fuel, lacquer thinner and naptha USTs were located at the south side of the plant between Building Number 9 and the lumber storage area (see Figure 2 for tank locations). The diesel UST was used to store fuel which was transferred to equipment at the site via a dispenser pump formerly located above the tank. The diesel fuel UST, and associated piping and dispenser pump were approximately 12 years old when they were excavated and removed. The lacquer thinner and naptha USTs were used to supply product to the plant for furniture finishing and were connected to the plant via underground piping. The lacquer thinner and naptha tanks were approximately 30 years old when they were excavated and removed. The gasoline UST was located at the north side of the facility near the front gate (see Figure 2 for tank location). The gasoline UST was used to store fuel that was dispensed to Drexel service vehicles and equipment at the site via a dispenser pump that was located at the tank location. The gasoline UST, and the associated piping and dispenser pump were approximately 12 years old when they were excavated and removed.

1.3 Notification of Intent to Close the USTs

Drexel completed and filed a Notice of Intent for permanent UST closure with the Department of Environment, Health, and Natural Resources (DEHNR), Division of Environmental Management (DEM), Asheville Regional Office (ARO) approximately 30 days prior to the initiation of field activities at the site (see Appendix A, form GW/UST-3).

2 Field Activities

2.1 Tank Pumping and Disposal, Product Disposal, and Tank Inerting

The UST pumping, residual product disposal, and tank disposal activities were carried out by STAT personnel. According to Mr. Garry Sparks of STAT, prior to excavation and removal STAT personnel inerted all the USTs using dry ice. The tanks were then checked for the presence of explosive vapors using a lower explosion limit instrument. When the tanks were judged sufficiently inerted, they were excavated and removed.

2.2 Diesel Fuel UST - Tank removal and Soil Sample Results

Based on our conversations with Mr. Sparks of STAT, during mid-October 1992, STAT personnel excavated and removed the diesel fuel UST system. No product odors were detected during removal activities. To check the condition of the soil beneath the UST, STAT personnel used a backhoe to collect two soil samples from the excavation pit at a depth of approximately 9 feet below grade. Soil samples DH-2001 and DH-2002 were placed in laboratory supplied glassware, marked with sample number, time, date, and constituent for which to be analyzed (see Figure 3 for diesel fuel UST pit soil sample locations). The samples were then placed in an ice-filled cooler, chilled to approximately 4° C and delivered to the analytical laboratory using EPA approved chain of custody procedures. At the laboratory, the diesel fuel UST pit soil samples were analyzed for total petroleum hydrocarbon (TPH) compounds by gas chromatograph according to SW-846 Extraction Methods 3550 and 5030. Sample results indicate sample DH-2001 exhibited 1.0 milligram per kilogram (mg/kg) of gasoline range TPH compounds. No other TPH compounds were detected in the soil samples. Sample results are summarized in Table 1 and laboratory documentation is presented in Appendix B. Subsequent to tank removal the diesel UST pit was backfilled using "clean" fill material.

2.3 Lacquer Thinner UST - Tank Removal and Soil Sample Results

During mid-October 1992, STAT personnel excavated and removed the lacquer thinner UST. According to Mr. Sparks of STAT, the soil overlying the lacquer thinner tank possessed a distinct solvent odor. This soil was placed on and covered with polyethylene sheeting at the site. Based on our communications with a representative of Drexel, approximately 10 cubic yards of soil were stockpiled at the site.

To check the condition of the soil beneath the tank, STAT personnel collected one soil sample at approximately 13 feet below grade from the center of the excavation pit. Soil sample DH-2004 [210-1857] was collected and handled according to the procedures outlined in Section 2.2 (see Figure 3 for lacquer thinner UST soil sample location). ***(STAT personnel labeled two soil samples with the sample number DH-2004. One sample was collected from the naptha pit and one sample was collected from the lacquer thinner pit. These samples have been identified with STAT sample number followed by the laboratory analysis number in square brackets to avoid confusion. For the remainder of this text, sample DH-2004 [210-1857] refers to the sample collected from the lacquer thinner pit and DH-2004 [210-1821d] refers to the sample collected from the naptha pit).*** At the laboratory the soil sample was analyzed for RCRA metals, volatiles and semivolatiles according to the Toxicity Characteristic Leachate Procedure (TCLP). In addition, the sample was also analyzed for volatiles and semivolatiles according to the standard methods, SW-846 Methods 8240 and 8720 base/neutral/acid extractable compounds. Results for the TCLP analyses indicate the sample exhibited 0.002 mg/L of arsenic, 0.010 mg/L of cadmium, 0.14 mg/L of lead, 0.003 mg/L of benzene and 0.001 mg/L of chloroform. No TCLP compound detected exceeded the Federal TCLP regulatory limit. Sample results for SW-846 volatiles and semivolatiles analysis indicate no compounds were detected above the laboratory quantitation limits. The STAT UST pit soil sample results are summarized in Table 2 and laboratory documentation is provided in Appendix B. Subsequent to tank removal and sampling the UST pit was backfilled using "clean" fill material.

2.4 Lacquer Thinner UST - Soil Stockpile Sample Results

During late January 1993, STAT personnel sampled the soil stockpile generated during the lacquer thinner UST removal. Soil sample DH-2009 was collected and handled according to the procedures outlined in Section 2.2. At the laboratory the soil sample was analyzed for TCLP volatiles. Results for the TCLP volatiles analysis indicate the sample exhibited 0.024 mg/L of chloroform and no other compounds. The chloroform TCLP value does not exceed the Federal TCLP regulatory limit. The STAT soil stockpile sample results are summarized in Table 2, and laboratory documentation is provided in Appendix B.

2.5 Naptha UST - Tank Removal and Soil Sample Results

During mid-October 1992 STAT personnel excavated the soil above the naptha UST. According to Mr. Sparks of STAT, the soil overlying the naptha tank possessed a distinct petroleum odor. This soil was placed on and covered with polyethylene sheeting at the site. Based on our communications with a representative of Drexel, approximately 10 cubic yards of soil were stockpiled at the site.

To check the condition of the soil beneath the tank, STAT personnel collected three soil samples from the excavation pit at approximately 13 feet below grade. Soil samples DH-2003 through DH-2005 were collected and handled according to the procedures outlined in Section 2.2 (see Figure 3 for naptha UST soil sample locations). At the laboratory the soil samples were analyzed for TPH by gas chromatograph according to SW-846 Extraction Methods 3550 and 5030. Results for the TPH analyses indicate that samples DH-2004 [210-1821D] and DH-2005 exhibited 1.5 mg/kg and 1.2 mg/kg of gasoline range TPH compounds, respectively. No other TPH compounds were detected in the samples. The STAT UST pit soil sample results are

summarized in Table 3, and laboratory documentation is provided in Appendix B. Subsequent to tank removal and sampling the UST pit was backfilled using "clean" fill material.

2.6 Gasoline UST - Tank Removal and Soil Sample Results

During early February 1993 STAT personnel excavated and removed the gasoline UST, and the associated piping and pump (see Figure 2 for gasoline UST location). During excavation of the gasoline UST, STAT personnel noted gasoline odors emanating from the removed soil. The final pit dimensions were 13 feet by 16 feet by 11 feet deep. A total of approximately 85 cubic yards of suspected petroleum contaminated soil were generated, stockpiled on and covered with polyethylene sheeting at the site. After tank removal, STAT personnel collected two soil samples, DH-2009 and DH-2010, from the UST excavation pit at a depth of approximately 9 feet below grade (see Figure 4 for soil sample locations). These samples were prepared and delivered to the laboratory as described in Section 2.2. At the laboratory both soil samples were analyzed for TPH compounds by gas chromatograph according to SW-846 Extraction Method 5030. Results for samples DH-2009 and DH-2010 exhibited 1,313 mg/kg and 1,499 mg/kg of gasoline range TPH, respectively. The gasoline UST pit bottom soil sample results are summarized in Table 4, and laboratory documentation is provided in Appendix B.

3 Conclusions

STAT personnel conducted UST closure and soil sampling activities at UST locations at the Drexel plant located in Marion, North Carolina. Subsequently, Drexel contracted Shield to prepare the UST closure report. Based on the field activities conducted by STAT, the soil laboratory analytical results, and Shield's experiences at similar sites, we conclude the following:

- Laboratory analytical results for the former diesel fuel and naptha UST pits indicate that low levels of TPH contamination are present in the soil beneath the former tank locations. However, soil results also indicate that the TPH contamination remaining in-place is below the North Carolina Soil Action Level of 10 parts per million (ppm) of gasoline range TPH. Based on the soil sample results, it appears that "clean" closure has been achieved.

- TCLP laboratory analytical results for the former lacquer thinner UST pit bottom sample indicate low levels of metals and volatile compounds are present in the soil beneath the former tank location. However, the TCLP metals and volatiles at the former lacquer thinner UST pit do not exceed the Federal TCLP regulatory limits. Based on the TCLP sample results it appears that soil beneath the former lacquer thinner UST location does not constitute a TCLP characteristic hazardous waste.

- SW-846 laboratory analytical results for the lacquer thinner UST pit bottom sample indicate no volatile or semivolatile compounds above the laboratory quantitation limits. Based on the lacquer thinner UST pit bottom soil sample results, it appears that "clean" closure has been achieved.

- TCLP laboratory analytical results for the lacquer thinner soil stockpile indicate chloroform was the only compound detected. The level of chloroform in the sample does not exceed the Federal TCLP regulatory limit. Based on the TCLP sample results it appears that the lacquer thinner soil stockpile does not constitute a TCLP characteristic hazardous waste.

- Laboratory analytical results for former gasoline UST pit bottom soil samples indicate gasoline range TPH contamination is present at 1,313 mg/kg and 1,499 mg/kg. The gasoline UST sample results exceed the North Carolina Soil Action Level of 10 ppm of gasoline range TPH contamination.

- Drexel has contracted Shield to advance soil borings and install three shallow groundwater monitoring wells in the immediate area of the former gasoline UST location. At the time of this report, a total of two soil borings and three monitoring wells have been installed and sampled. Shield is currently evaluating the soil and groundwater sample results and will prepare an assessment report for Drexel. Based on our contact with a representative of Drexel, a copy of the soil and groundwater assessment report will be forwarded to the DEM, ARO subsequent to review by Drexel.

Based on the above stated conclusions, Shield recommends the following actions:

- Based on the soil sample results from the diesel fuel, lacquer thinner and naptha UST pits, Shield recommends no further assessment activities. In addition, we recommend that the DEM, ARO consider these former UST locations for permanent site closure.

- Based on the soil sample results from the gasoline UST location, Shield is currently conducting soil and groundwater assessment activities at the site. Based on the scope of the work, we believe that a soil and groundwater assessment report will be delivered to Drexel within the next 30 days.

- Shield recommends that the gasoline/naptha soil stockpile be sampled for gasoline range TPH compounds. If the results of the sample indicate TPH contamination at less than 10 mg/kg, Shield recommends that Drexel apply to the DEM, ARO for a soil disposal certificate so that the stockpile can be spread on-site. However, if the results indicate TPH is greater than 10 mg/kg, Shield recommends that the soil be disposed of in an environmentally sound manner, or that the soil stockpile be remediated to less than 10 mg/kg of TPH.

- Shield recommends that Drexel contact the DEM, ARO and/or the North Carolina, DEHNR, Division of Solid Waste Management regarding the ultimate fate of the lacquer thinner soil stockpile.

- A copy of this UST closure report should be submitted to the DEM, ARO, Groundwater Section at the following address:

  Mr. Fred Hankinson
  Department of Environment, Health and Natural Resources
  Division of Environmental Management
  Groundwater Section
  Asheville Regional Office
  59 Woodfin Place
  Asheville, North Carolina 28801

5 Limitations

This report has been prepared for the exclusive use of Drexel Heritage Furnishings, Inc. and Drexel's parent company Masco Home Furnishings, Inc. This report was prepared for specific application to the referenced site located in Marion, North Carolina. The STAT work summaries were based on our conversations with Mr. Garry Sparks of STAT, the materials that STAT and Drexel supplied Shield, and our conversations with Drexel employees. In addition, Shield's reporting was based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted industry practices, the available information, and our professional judgment. The data presented in this report is indicative of conditions that existed at the precise locations sampled and at the time the sample was collected. The data obtained from the sampling is meaningful with respect to parameters indicated in the laboratory report. No other additional information can logically be inferred from this data. No effort has been made to misrepresent the conditions at the site. No other warranty is expressed or implied.

Tables

Table 1. **STAT, Inc. Laboratory Analytical Results for Soil Samples, Former Diesel UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina, October 14, 1992.**

Soil Sample Number	Depth (feet)	Total Petroleum Hydrocarbons SW-846 Extraction Methods 3550 (mg/kg)	5030 (mg/kg)
DH-2001	9	BDL	1.0
DH-2002	9	BDL	BDL

mg/kg *milligrams per kilogram*
BDL *Below Laboratory Quantitation Limit of 1.0 mg/kg of TPH*

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Table 2. **Laboratory Analytical Results for Soil Samples, Former Lacquer Thinner UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina.**

Soil Sample Number	Depth (feet)	TCLP Compounds (mg/L)	Semivolatiles SW-846 Method 8270 BNA (µg/kg)	Volatiles SW-846 Method 8240 (µg/L)*
STAT UST PIT Soil Sample Results (10-20-92)				
DH-2004 [210-1857]	13	0.002 (Arsenic) 0.010 (Cadmium) 0.14 (Lead) 0.003 (Benzene) 0.001 (Chloroform) BDL (All Other Analytes)	BDL	BDL
STAT UST Soil Stockpile Sample Results (1-25-93)				
DH-2009	composite	0.024 (Chloroform) BDL (All Other Analytes)	NA	NA

TCLP *Toxicity Characteristic Leachate Procedure*
mg/L *milligrams per liter*
*(µg/L)** *micrograms per liter(?). Apparently, the laboraotory erroneously reported the soil Method 8240 results in µg/L instead of µg/kg.*
NA *Not Analyzed*
BDL *Below Laboratory Detection Limits*

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Table 3. **STAT, Inc. Laboratory Analytical Results for Soil Samples, Former Naptha UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina, October 15, 1992.**

Soil Sample Number	Depth (feet)	Total Petroleum Hydrocarbons SW-846 Extraction Methods 3550 (mg/kg)	5030 (mg/kg)
DH-2003	13	BDL	BDL
DH-2004	13 [210-1821D]	BDL	1.5
DH-2005	13	BDL	1.2

mg/kg *milligrams per kilogram*
BDL *Below Laboratory Quantitation Limit of 1.0 mg/kg of TPH*

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Table 4. **STAT, Inc. Laboratory Analytical Results for Soil Samples, Former Gasoline UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina, February 2, 1993.**

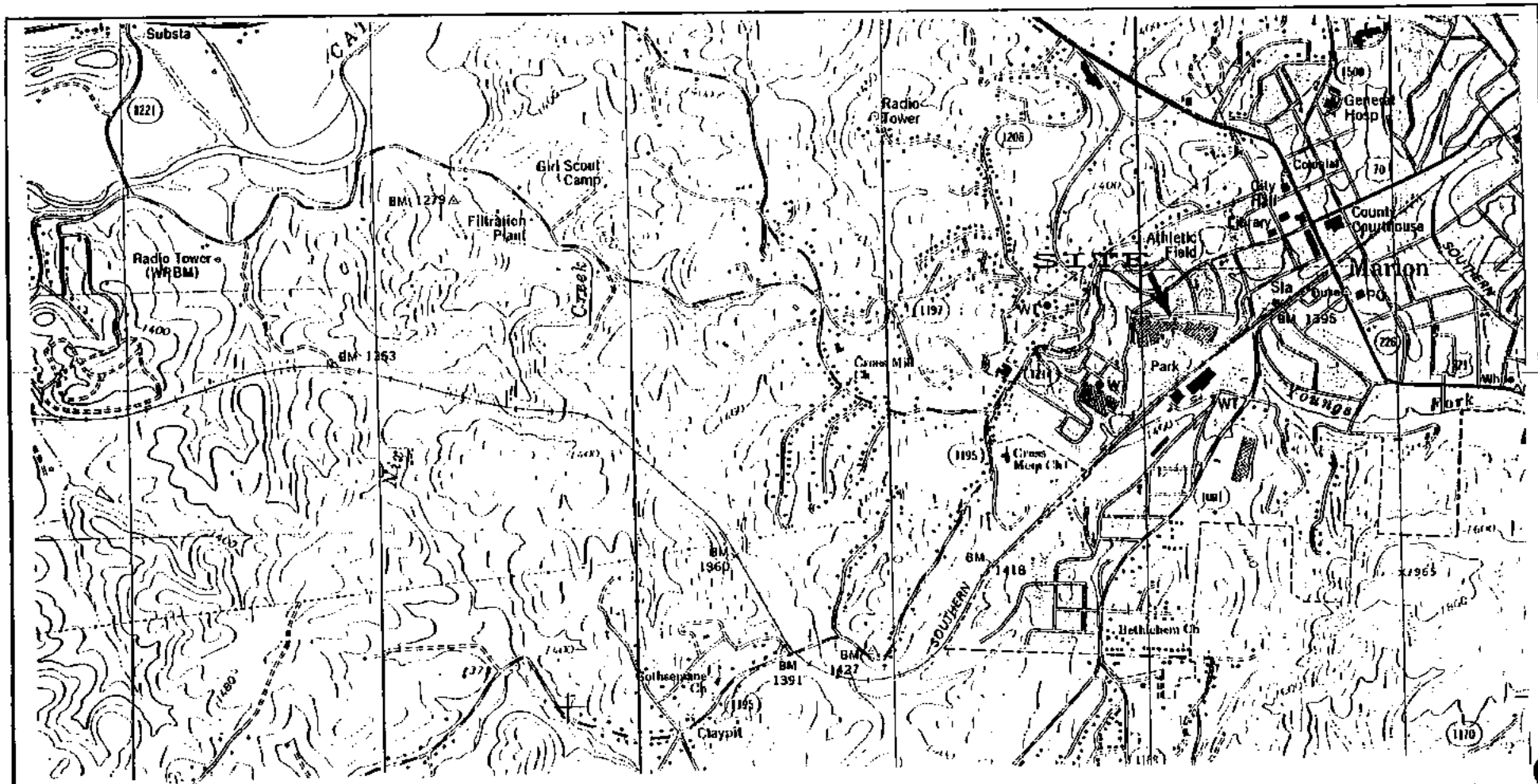
Soil Sample Number	Depth (feet)	Total Petroleum Hydrocarbons SW-846 Extraction Method 5030 (mg/kg)
DH-2009	9	1,313
DH-2010	9	1,499

mg/kg milligrams per kilogram

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Figures



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

MN GN

4° 71 MILS 0°37' 11 MILS

UTM GRID AND 1985 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

N.C.

QUADRANGLE LOCATION

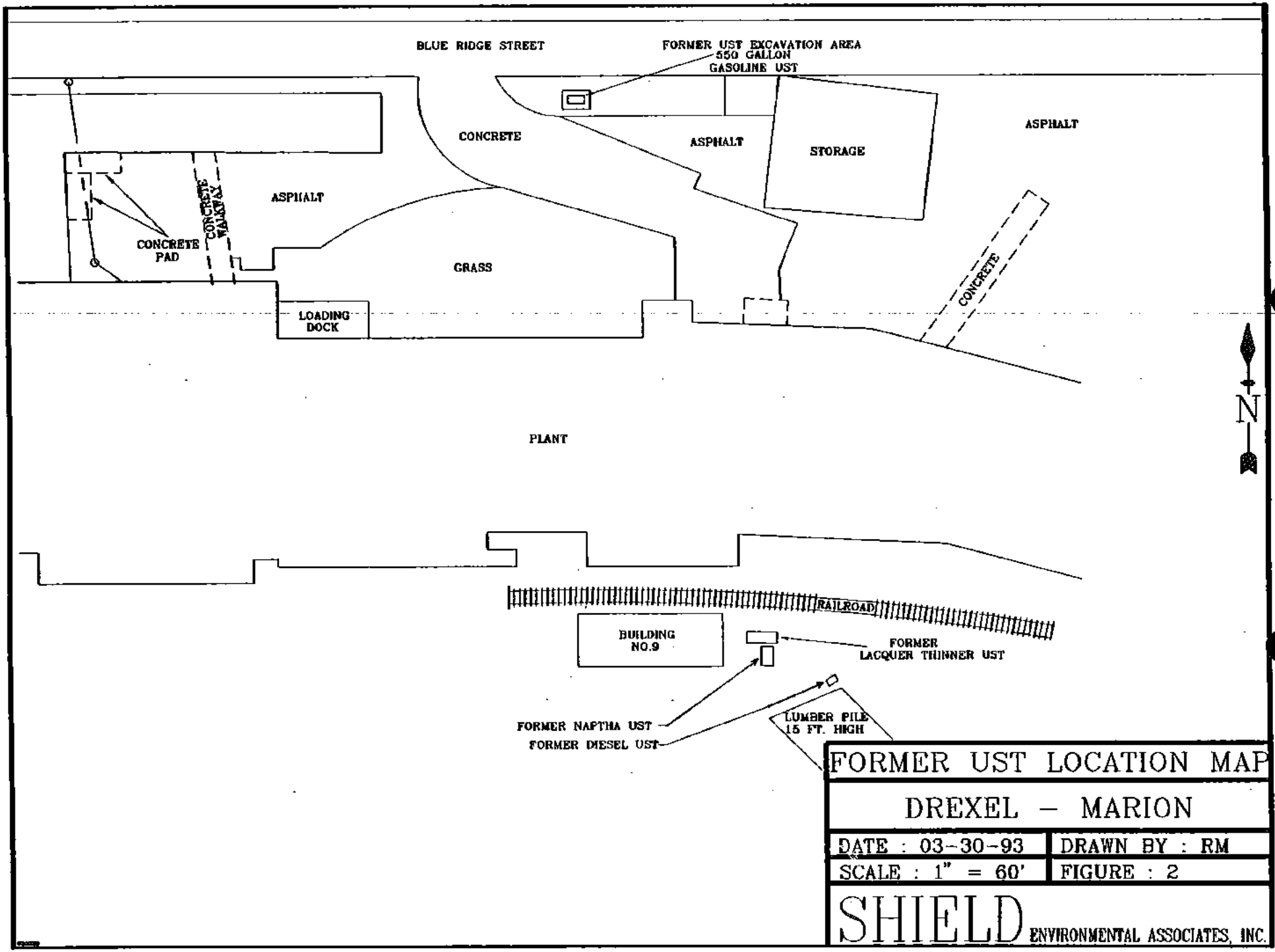
MARION WEST, N. C.

SITE LOCATION MAP

DREXEL - MARION

DATE : 04-16-93	DRAWN BY : RM
SCALE : AS SHOWN	FIGURE : 1

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

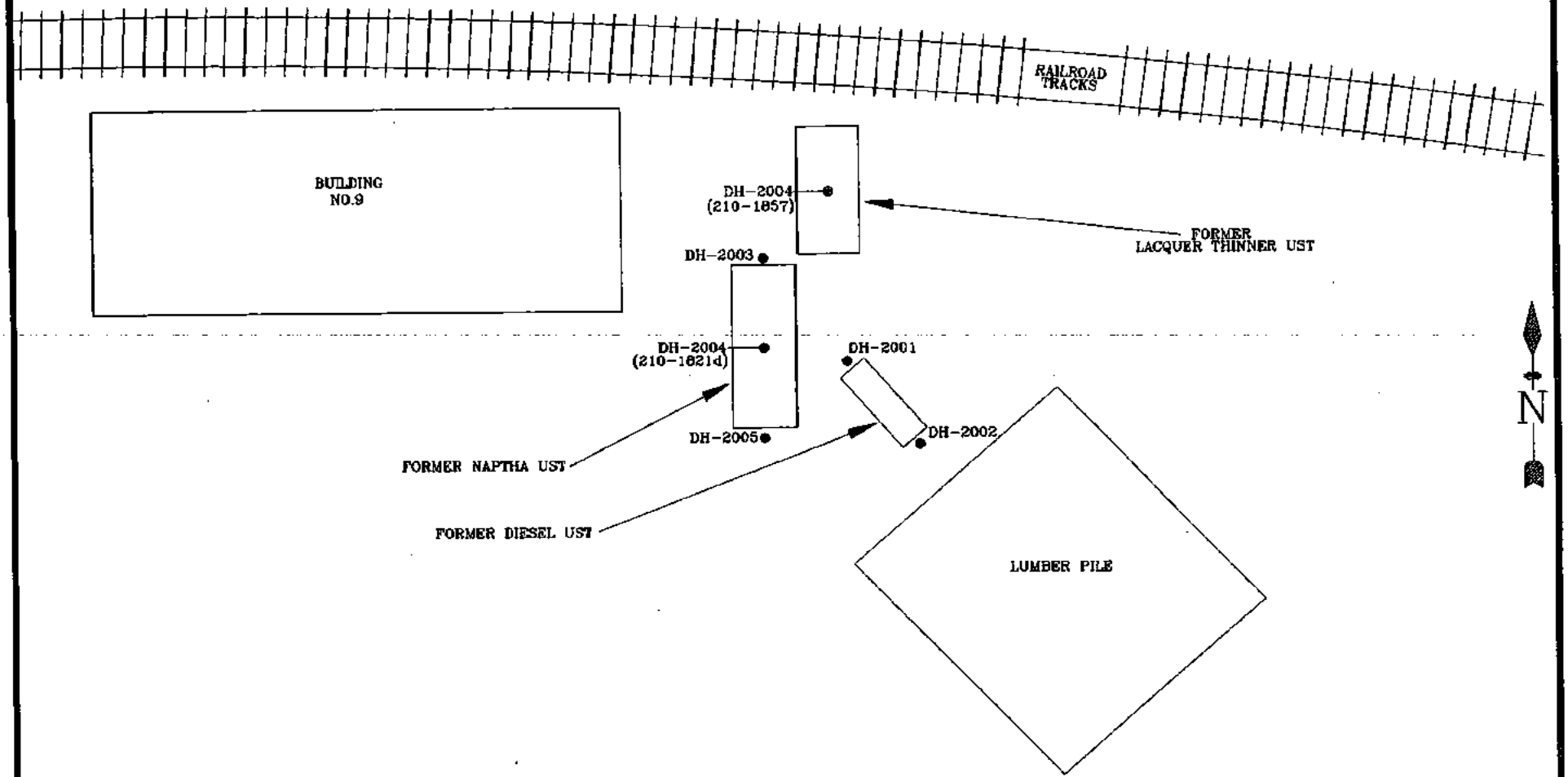


FORMER UST LOCATION MAP

DREXEL – MARION

DATE : 03-30-93	DRAWN BY : RM
SCALE : 1" = 60'	FIGURE : 2

SHIELD ENVIRONMENTAL ASSOCIATES, INC.



LEGEND :

● SOIL SAMPLE LOCATION

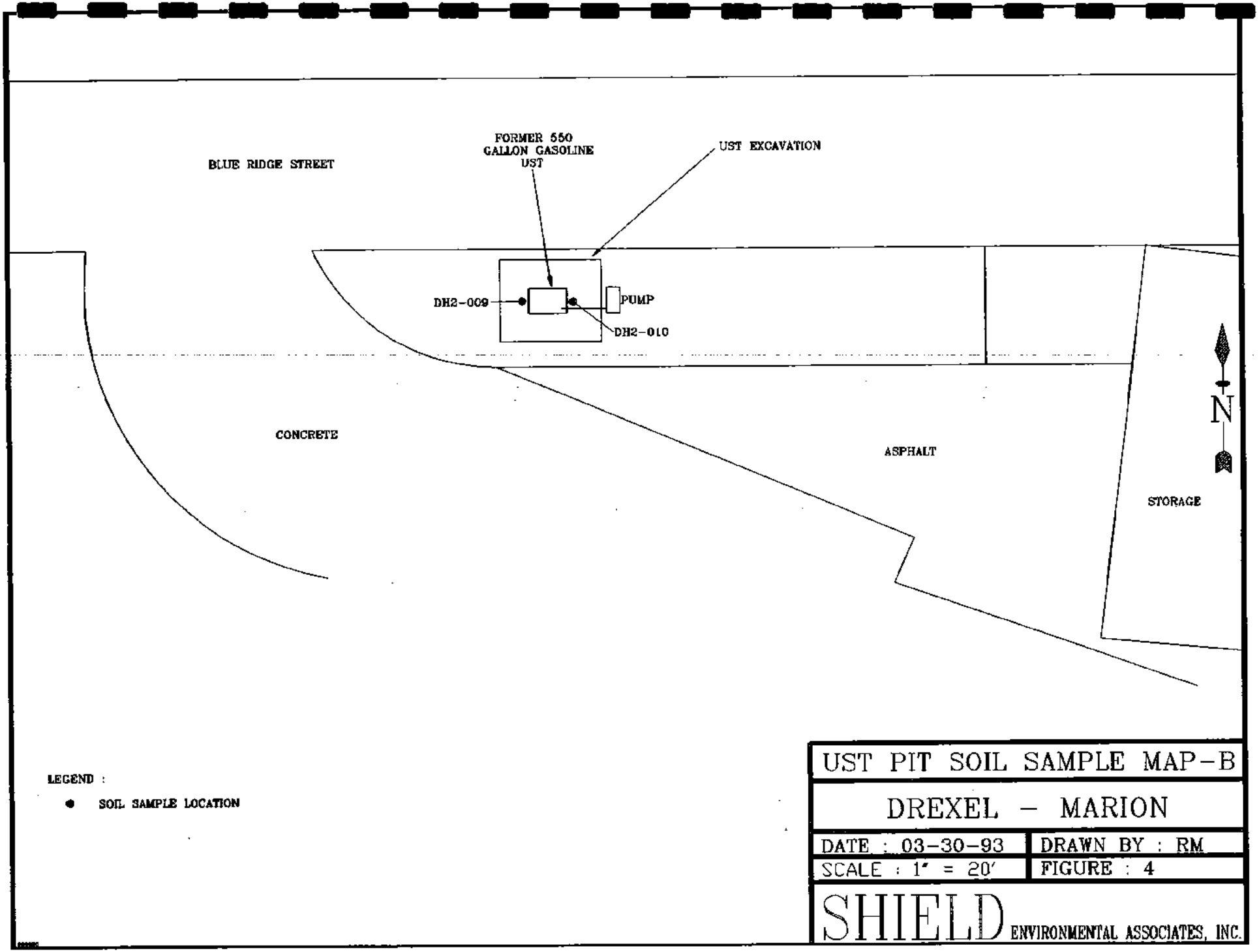
(210-1857) BLUE RIDGE LABS ANALYSIS NUMBER

UST PIT SOIL SAMPLE MAP-A

DREXEL - MARION

DATE : 03-30-93	DRAWN BY : RM
SCALE : 1" = 20'	FIGURE : 3

SHIELD ENVIRONMENTAL ASSOCIATES, INC.



LEGEND :

● SOIL SAMPLE LOCATION

UST PIT SOIL SAMPLE MAP-B

DREXEL - MARION

DATE : 03-30-93	DRAWN BY : RM
SCALE : 1" = 20'	FIGURE : 4

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Notice of Intent: UST Permanent Closure or Change-In-Service

FOR TANKS IN **NC**

Return Completed Form To: The appropriate DEM Regional Office according to the county of the facility's location. (SEE REVERSE SIDE OF OWNER'S COPY (BLUE) FOR REGIONAL OFFICE ADDRESS).

State Use Only
I. D. Number _____
Date Received _____

INSTRUCTIONS
Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)

Tank Owner Name: DREXEL HERITAGE FURNISHINGS, INC.
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 201 N. MAIN ST.
County: BURKE
City: DREXEL State: N.C. Zip Code: 28619
Tele. No. (Area Code): 704/433-3000

II. LOCATION OF TANK(S)

Facility Name or Company DREXEL HERITAGE #T-2
Facility ID # (if available) _____
Street Address or State Road: 361 BLUE RIDGE ST.
County: McDOWELL City: MARION Zip Code: 28752
Tele. No. (Area Code): 704/652-2535

III. CONTACT PERSON

Name: STANLEY B. CARTER Job Title: FACILITIES ENGINEER Telephone Number: (704) 438-5604

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. If Removing Tanks or Closing in Place refer to API Publications. 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
7. Keep records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: STAT, INC.
Address: P.O. Box 1443 LENOIR State: N.C. Zip Code: 28645
Contact: GARY SPARKS Phone: (704)-396-2304

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY: CLOSURE – Removal	CLOSURE – Abandonment In Place	CHANGE-IN-SERVICE – New Contents Stored
2-05	550 GAL.	GASOLINE	☑	☐	
2-06	1,000 GAL.	DIESEL	☑	☐	
2-08	6,048 GAL.	THINNER	☑	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title
STANLEY B. CARTER FACILITIES ENGINEER
*Scheduled Removal Date: 6/1/92
Signature: Stanley B Carter
Date Submitted: 5/5/92

*If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

GW/UST-3 Rev.3/91 White Copy - Regional Office Yellow Copy - Central Office Blue Copy - Owner

(GW/UST-3) **Notice of Intent: UST Permanent Closure or Change-In-Service**

FOR TANKS IN **NC**

Return Completed Form To: The appropriate DEM Regional Office according to the county of the facility's location. [SEE REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I. D. Number
Date Received

INSTRUCTIONS

Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)

Tank Owner Name: DREXEL HERITAGE FURNISHINGS, INC
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 201 N. MAIN ST
County: BURKE
City: DREXEL State: N.C. Zip Code: 28619
Tele. No. (Area Code): 704/433-3000

II. LOCATION OF TANK(S)

Facility Name or Company: DREXEL HERITAGE PLT. 2
Facility ID # (if available): 0-013291
Street Address or State Road: 361 BLUE RIDGE ST.
County: McDOWELL City: MARION Zip Code: 28752
Tele. No. (Area Code): 704/652-2535

III. CONTACT PERSON

Name: STANLEY B. CARTER Job Title: FACILITIES ENGINEER Telephone Number: (704) 438-5604

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. If Removing Tanks or Closing in Place refer to API Publications. 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
7. Keep records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: STAT, INC.
Address: PO Box 1443 LENOIR State: N.C. Zip Code: 28645
Contact: GARY SPARKS Phone: 704/396-2304

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY: CLOSURE – Removal	CLOSURE – Abandonment In Place	CHANGE-IN-SERVICE – New Contents Stored
2-23	8,000 GAL	NAPTHA	✓		

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title: STANLEY B. CARTER FACILITIES ENGINEER
*Scheduled Removal Date: 6/1/92
Signature: Stanley B. Carter
Date Submitted: 5/28/92

*If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

GW/UST-3 Rev.7/29/91 White Copy - Regional Office Yellow Copy - Central Office Pink Copy - Owner

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings, Inc.
Accounts Payable Dept.
Drexel, NC 28619

Copy to: STAT, Inc.

DATE RECEIVED: October 15, 1992

DATE REPORTED: October 20, 1992

SAMPLE NUMBER	SAMPLE DESCRIPTION
210-1821A	Soil; DH #2-001 for 5030, 3550
210-1821B	Soil; DH #2-002 for 5030, 3550
210-1821C	Soil; DH #2-003 for 5030, 3550
210-1821D	Soil; DH #2-004 for 5030, 3550
210-1821E	Soil; DH #2-005 for 5030, 3550

PARAMETER	RESULTS	MDL	DATE ANALYZED
210-1821A - 5030	1.0	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92
210-1821B - 5030	*	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92

INVOICE 92-1610
$1,100
APPROVED 10/29/92

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER	RESULTS	MQL	DATE ANALYZED
210-1821C - 5030	*	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92
210-1821D - 5030	1.5	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92
210-1821E - 5030	1.2	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92

REPORTED BY:

D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

910-1821A-F



CHAIN OF CUSTODY RECORD

SAMPLE ID: DH#2-001
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-14-92 TIME SAMPLED: 11:30
TESTS REQUESTED: Dis Fuel

PRESERVATIVE: Ice
SIGNATURE: Leary Lpah

SAMPLE ID: DH#2-002
TYPE OF SAMPLE: Drexel Heritage #2
LOCATION: Drexel Heritage
DATE SAMPLED: 10-14-92 TIME SAMPLED: 11:50
TESTS REQUESTED: Dis Fuel

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

SAMPLE ID: DH#2 003
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-15-92 TIME SAMPLED: 2:02pm
TESTS REQUESTED: #2 Fuel Oil

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

RELINQUISHED BY: Leary Lpah DATE 10-15-92

SAMPLE ID: DH#2-004
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-15-92 TIME SAMPLED: 2:05
TESTS REQUESTED: #2 Fuel Oil

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

SAMPLE ID: DH#2 005
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-15-92 TIME SAMPLED: 2:05 pm
TESTS REQUESTED: #2 Fuel Oil

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

RELINQUISHED TO:

NOTE: Use back for additional information and maps.

3/25/93

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings
211 East Fleming Dr.
Morganton, NC 28655

Attention: Mr. S. Carter
Copy To: Mr. G Sparks; STAT, Inc.

DATE RECEIVED: October 21, 1992

DATE REPORTED: November 12, 1992

Hole where thinner tank was removed

SAMPLE NUMBER	SAMPLE DESCRIPTION
210-1857	Soil; DH #2-004 for TCLP Metals, TCLP VOC, TCLP SV, 8240, 8270

PARAMETER		RESULTS	MQL		DATE ANALYZED
210-1857	TCLP Metals				
	As	0.002	0.001	mg/l	10/26/92
	Ba	*	0.10	mg/l	10/26/92
	Cd	0.010	0.001	mg/l	10/26/92
	Cr	*	0.01	mg/l	10/26/92
	Pb	0.14	0.01	mg/l	11/2/92
	Hg	*	0.001	mg/l	10/21/92
	Se	*	0.001	mg/l	10/26/92
	Ag	*	0.01	mg/l	10/26/92

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS	MQL		DATE ANALYZED
210-1857	TCLP Volatiles				
	Benzene	**0.003**	0.001	mg/l	11/6/92
	Carbon Tetrachloride	*	0.001	mg/l	11/6/92
	Chlorobenzene	*	0.001	mg/l	11/6/92
	Chloroform	**0.001**	0.001	mg/l	11/6/92
	1,4-Dichlorobenzene	*	0.001	mg/l	11/6/92
	1,2-Dichloroethane	*	0.001	mg/l	11/6/92
	1,1-Dichloroethene	*	0.001	mg/l	11/6/92
	Tetrachloroethene	*	0.001	mg/l	11/6/92
	Trichloroethene	*	0.001	mg/l	11/6/92
	Vinyl Chloride	*	0.001	mg/l	11/6/92
	MEK	*	0.001	mg/l	11/6/92
210-1857	TCLP SV				
	o-Cresol	*	0.005	mg/l	11/4/92
	m-Cresol	*	0.005	mg/l	11/4/92
	p-Cresol	*	0.005	mg/l	11/4/92
	2,4-Dinitrotoluene	*	0.005	mg/l	11/4/92
	Hexachlorobenzene	*	0.005	mg/l	11/4/92
	Hexachlorobutadiene	*	0.005	mg/l	11/4/92
	Hexachloroethane	*	0.005	mg/l	11/4/92
	Nitrobenzene	*	0.005	mg/l	11/4/92
	Pentachlorophenol	*	0.025	mg/l	11/4/92
	Pyridine	*	0.005	mg/l	11/4/92
	2,4,5-Trichlorophenol	*	0.025	mg/l	11/4/92
	2,4,6-Trichlorophenol	*	0.005	mg/l	11/4/92

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

PARAMETER		RESULTS	MQL	
210-1657	8240 Volatiles			
	Acetone	*	100	ug/l
	Acrolein	*	50	ug/l
	Acrylonitrile	*	50	ug/l
	Benzene	*	5	ug/l
	Bromodichloromethane	*	5	ug/l
	Bromoform	*	5	ug/l
	Bromomethane	*	10	ug/l
	Butanone, 2- (MEK)	*	10	ug/l
	Carbon Disulfide	*	5	ug/l
	Carbon Tetrachloride	*	5	ug/l
	Chlorobenzene	*	5	ug/l
	Chloroethane	*	10	ug/l
	2-Chloroethylvinyl Ether	*	10	ug/l
	Chloroform	*	5	ug/l
	Chloromethane	*	10	ug/l
	Dibromochloromethane	*	5	ug/l
	Dibromomethane	*	5	ug/l
	1,2-Dichlorobenzene	*	5	ug/l
	1,3-Dichlorobenzene	*	5	ug/l
	1,4-Dichlorobenzene	*	5	ug/l
	1,4-Dichloro-2-Butane	*	5	ug/l
	Dichlorodifluoromethane	*	10	ug/l
	1,1-Dichloroethane	*	5	ug/l
	1,2-Dichloroethane	*	5	ug/l

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS		MQL	
210-1857	8240 Volatiles				
	1,1-Dichloroethene	*		5	ug/l
	trans-1,2-Dichloroethene	*		5	ug/l
	1,2-Dichloropropane	*		5	ug/l
	cis-1,3-Dichloropropene	*		5	ug/l
	trans-1,3-dichloropropene	*		5	ug/l
	Ethanol	*		100	ug/l
	Ethylbenzene	*		5	ug/l
	Ethyl Methacrylate	*		10	ug/l
	2-Hexanone (MBK)	*		50	ug/l
	Iodomethane	*		10	ug/l
	Methylene Chloride	*		5	ug/l
	4-Methyl-2-Pentanone (MIBK)	*		50	ug/l
	Styrene	*		10	ug/l
	1,1,2,2-Tetrachloroethane	*		10	ug/l
	Tetrachloroethene	*		10	ug/l
	Toluene	*		5	ug/l
	1,1,1-Trichloroethane	*		5	ug/l
	1,1,2-Trichloroethane	*		5	ug/l
	Trichloroethene	*		5	ug/l
	Trichlorofluoromethane	*		5	ug/l
	Vinyl Chloride	*		10	ug/l
	Xylenes (Total)	*		5	ug/l

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

PARAMETER		RESULTS	MQL	
210-1857	8270 A/BN			
	2-Chlorophenol	*	160	ug/kg
	4-Chlorophenyl Phenyl Ether	*	160	ug/kg
	Chrysene	*	160	ug/kg
	Dibenz(a,j)Acridne	*	160	ug/kg
	Dibenz(a,h)Anthracene	*	160	ug/kg
	Dibenzofuran	*	160	ug/kg
	Di-n-Butyl Phthalate	*	160	ug/kg
	1,2-Dichlorobenzene	*	160	ug/kg
	1,3-Dichlorobenzene	*	160	ug/kg
	1,4-Dichlorobenzene	*	160	ug/kg
	3,3'-Dichlorobenzidine	*	330	ug/kg
	2,4-Dichlorophenol	*	160	ug/kg
	2,6-Dichlorophenol	*	160	ug/kg
	Diethylphthalate	*	160	ug/kg
	p-Dimethylaminoazobenzene	*	160	ug/kg
	7,12-Dimethylbenz(A)Anthracene	*	160	ug/kg
	a,a-Dimethylphenethylamine	*	160	ug/kg
	2,4-Dimethylphenol	*	160	ug/kg
	Dimethylphthalate	*	160	ug/kg
	4,6-Dinitro-2-Methylphenol	*	820	ug/kg
	2,4-Dinitrophenol	*	160	ug/kg
	2,4-Dinitrotoluene	*	160	ug/kg
	2,6-Dinitrotoluene	*	160	ug/kg
	Diphenylamine	*	160	ug/kg

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS	MQL	
210-1857	8270 A/BN			
	Acenaphthene	*	160	ug/kg
	Acenaphthylene	*	160	ug/kg
	Acetophenone	*	160	ug/kg
	Aniline	*	160	ug/kg
	Anthracene	*	160	ug/kg
	4-Aminobiphenyl	*	160	ug/kg
	Benzidine	*	160	ug/kg
	Benzoic Acid	*	820	ug/kg
	Benzo(a)Anthracene	*	160	ug/kg
	Benzo(b)Fluoranthene	*	160	ug/kg
	Benzo(k)Fluoranthene	*	160	ug/kg
	Benzo(gih)Perylene	*	160	ug/kg
	Benzo(a)Pyrene	*	160	ug/kg
	Benzyl Alcohol	*	160	ug/kg
	Bis(2-chloroethoxy) Methane	*	160	ug/kg
	Bis(2-chloroethyl) Ether	*	160	ug/kg
	Bis(2-chloroisopropyl) Ether	*	160	ug/kg
	Bis(2-Ethylhexyl) Phthalate	*	160	ug/kg
	4-Bromophenyl Phenyl Ether	*	160	ug/kg
	Butylbenzyl Phthalate	*	160	ug/kg
	4-Chloroaniline	*	160	ug/kg
	1-Chloronaphthalene	*	160	ug/kg
	2-Chloronaphthalene	*	160	ug/kg
	4-Chloro-3-Methylphenol	*	160	ug/kg

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

PARAMETER		RESULTS		MQL	
210-1857	8270 A/BN				
	1,2-Diphenylhydrazine	*		160	ug/kg
	Di-n-Octyl Phthalate	*		160	ug/kg
	Ethyl Methane Sulfonate	*		160	ug/kg
	Fluoranthene	*		160	ug/kg
	Fluorene	*		160	ug/kg
	Hexachlorobenzene	*		160	ug/kg
	Hexachlorobutadiene	*		160	ug/kg
	Hexachlorocyclopentadiene	*		160	ug/kg
	Hexachloroethane	*		160	ug/kg
	Indeno(1,2,3-cd)Pyrene	*		160	ug/kg
	Isophorone	*		160	ug/kg
	3-Methylchloranthrene	*		160	ug/kg
	Methyl Methane Sulfonate	*		160	ug/kg
	2-Methylnaphthalene	*		160	ug/kg
	2-Methylphenol	*		160	ug/kg
	4-Methylphenol	*		160	ug/kg
	Naphthalene	*		160	ug/kg
	1-Naphthylamine	*		160	ug/kg
	2-Naphthylamine	*		160	ug/kg
	2-Nitroaniline	*		820	ug/kg
	3-Nitroaniline	*		820	ug/kg
	4-Nitroaniline	*		820	ug/kg
	Nitrobenzene	*		160	ug/kg
	2-Nitrophenol	*		160	ug/kg

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS	MQL	
210-1857	8270 A/BN			
	4-Nitrophenol	*	820	ug/kg
	N-Nitrosodi-N-Butylamine	*	160	ug/kg
	N-Nitrosodimethylamine	*	160	ug/kg
	N-Nitrosodiphenylamine	*	160	ug/kg
	N-Nitrosodipropylamine	*	160	ug/kg
	N-Nitrosopiperidine	*	160	ug/kg
	Pentachlorobenzene	*	160	ug/kg
	Pentachloronitrobenzene	*	160	ug/kg
	Pentachlorophenol	*	820	ug/kg
	Phenacetin	*	160	ug/kg
	Phenanthrene	*	160	ug/kg
	Phenol	*	160	ug/kg
	2-Picoline	*	160	ug/kg
	Pronamide	*	160	ug/kg
	Pyrene	*	160	ug/kg
	1,2,4,5-Tetrachlorobenzene	*	160	ug/kg
	2,3,4,6-Tetrachlorophenol	*	160	ug/kg
	2,4,6-Tribromophenol	*	160	ug/kg
	1,2,4-Trichlorobenzene	*	160	ug/kg
	2,4,5-Trichlorophenol	*	820	ug/kg
	2,4,6-Trichlorophenol	*	160	ug/kg

REPORTED BY: _____

D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

Blue Ridge Labs

P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 726-0149

CHAIN OF CUSTODY RECORD

210-1857

SAMPLE ID: DH#2-004
TYPE OF SAMPLE: Drit
LOCATION:
DATE SAMPLED: 10-20-92 TIME SAMPLED: 2:30
TESTS REQUESTED: TCLP - Sax Dig. Soluble
8240 & 8270
PRESERVATIVE: Ice
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

RELINQUISHED BY:

DATE: 10/21/92

RELINQUISHED TO:

NOTE: Use back for additional information and maps.

5/25/91

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings
211 E. Fleming Dr.
Morganton, N.C. 28655
Attention: Mr. S. Carter

DATE RECEIVED: January 25, 1993

DATE REPORTED: February 3, 1993

SAMPLE NUMBER	SAMPLE DESCRIPTION
301-0158A	Soil; DH #2 007 for 9071
301-0158B	Soil; DH #2 008 for 9071
301-0158C	Soil; DH #2 009 for TCLP Volatiles

PARAMETER	RESULTS	MQL		DATE STARTED
301-0158A - 9071	168	3.0	mg/kg	01/26/93
301-0158B - 9071	113	3.0	mg/kg	01/26/93
301-0158C - TCLP Volatiles (Analyzed 2/1/93)				
- Benzene	*	0.001	mg/l	
- Carbon Tetrachloride	*	0.001	mg/l	
- Chlorobenzene	*	0.001	mg/l	
- **Chloroform**	**0.024**	0.001	mg/l	
- 1,2-Dichlorobenzene	*	0.001	mg/l	
- 1,4-Dichlorobenzene	*	0.001	mg/l	
- 1,1-Dichloroethene	*	0.001	mg/l	
- Methy Ethyl Ketone (MEK)	*	0.001	mg/l	

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER	RESULTS	MQL
301-0158C - TCLP Volatiles (Analyzed 2/1//93)		
- Tetrachloroethene	*	0.001 mg/l
- Trichloroethene	*	0.001 mg/l
- Vinyl Chloride	*	0.001 mg/l

REPORTED BY: _____

D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

301-0158

CHAIN OF CUSTODY RECORD

SAMPLE ID : DH#2007
TYPE OF SAMPLE : Soil
LOCATION : Next to Chip loading MARION
DATE SAMPLED : 1-25 93 TIME SAMPLED : 11:50
TESTS REQUESTED : 9071
PRESERVATIVE: Ice
SIGNATURE: D. Walt Sparks

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

SAMPLE ID : DH #2 008
TYPE OF SAMPLE : Soil
LOCATION : Diesel Heritage
DATE SAMPLED : 1-25-93 TIME SAMPLED : 12:40
TESTS REQUESTED : 9071
PRESERVATIVE: Ice
SIGNATURE: D. Walt Sparks

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

SAMPLE ID : DH #2 009
TYPE OF SAMPLE : Soil
LOCATION : Stock Pile Diesel Heritage
DATE SAMPLED : TIME SAMPLED : 12:45
TESTS REQUESTED : TCLP
Scan for Volatiles
PRESERVATIVE: Ice
SIGNATURE: D. Walt Sparks

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

RELINQUISHED BY:	DATE	RELINQUISHED TO:
D. Walt P. Sparks	1-25-93	Wanda Johnson

NOTE. Use back for additional information and maps

3/25/91

SAMPLES "FROM" INITIAL EXCAVATION OF GAS TANK AT FRONT OF PLANT

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Leaoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings
211 E. Fleming Dr.
Morganton, N.C. 28655
Attention: Mr. S. Carter

DATE RECEIVED: February 3, 1993

DATE REPORTED: February 4, 1993

SAMPLE NUMBER	SAMPLE DESCRIPTION
302-0242A	Soil; DH2-009 for 5030
302-0242B	Soil; DH2-010 for 5030

PARAMETER	RESULTS	MDL		DATE STARTED
302-0242A - 5030	1313	1.0	mg/kg	02/03/93
302-0242B - 5030	1499	1.0	mg/kg	02/03/93

REPORTED BY: _____
D. R. Wessinger - General Manager

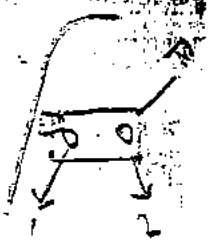
* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

302-0242

Bill Lawler DREXEL
CCR STAT

Tank Side
Tank 92" 43"



Blue Ridge Labs
P.O. Box 2968 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CHAIN OF CUSTODY RECORD

SAMPLE ID : DH2-009
TYPE OF SAMPLE : Dirt
LOCATION : Drum Platform #2
DATE SAMPLED : 2-2-93 TIME SAMPLED : 4:15
TESTS REQUESTED : GAS
PRESERVATIVE: ICE
SIGNATURE: [signature]

SAMPLE ID : DH2-010
TYPE OF SAMPLE : Dirt
LOCATION : Drum Platform #2
DATE SAMPLED : 2-2-93 TIME SAMPLED : 4:15
TESTS REQUESTED : GAS
PRESERVATIVE: ICE
SIGNATURE: [signature]

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

RELINQUISHED BY:	DATE	RELINQUISHED TO:
[signature]	2-3-93	[signature]

NOTE: Use back for additional information and maps.

3/25/91

MCCO
11091
DREXEL HERITAGE PLT. 2 MARION
DME 1/20/95

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

January 16, 1995

Ms. Diane Eskenasy
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Fourth Quarter 1994 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Ms. Eskanasy:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Fourth Quarter 1994 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on December 14, 1994. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1.

Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. As a result of gauging the site monitor wells, 0.06 feet of free product was detected in monitor well MW-8. Free product was not detected in any of the other site monitor wells. No odors or free product was observed in a storm drain located near MW-8. Free product gauging and inspection of the storm drain will be conducted during site visits by ERM-Southeast and quarterly sampling events.

The site corrective action plan was formally approved on January 4, 1995. Drexel Heritage is in the process of obtaining bids to design, construct, and install the proposed ground water remediation system.

Offices of
ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp10:drexel-1.qtr

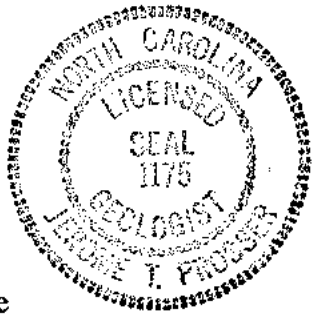
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Asheville Regional Office

Please call myself or Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

ERM

Sincerely,

ERM-SOUTHEAST, INC.

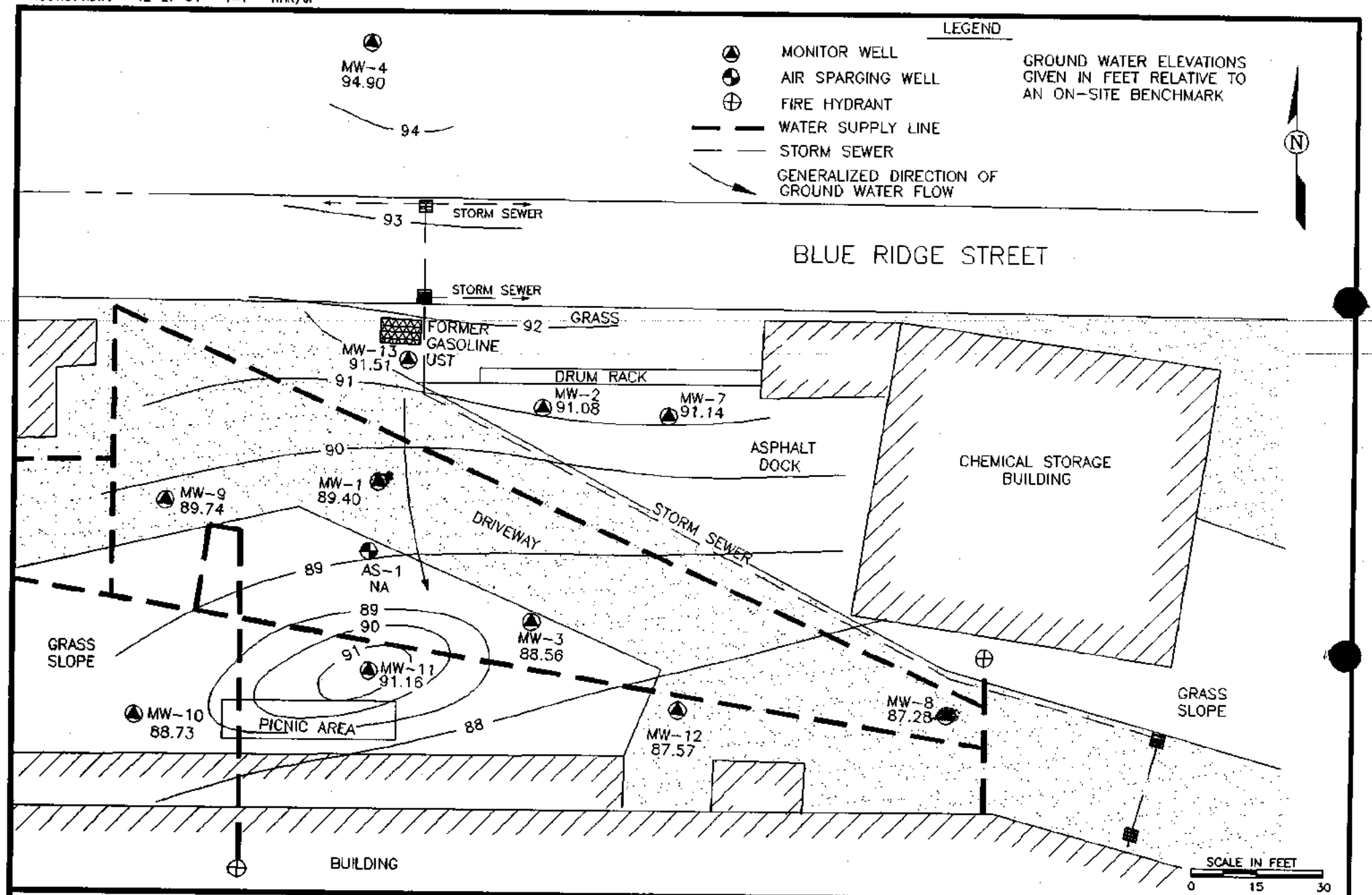


Jerry Prosser, P.G.
Project Manager

cc: S. Carter - Drexel Heritage
M. Lake - MASCO

jp10:drexel-1.qtr

4501IS01.DWG 12-27-94 1=1 RHR/JP



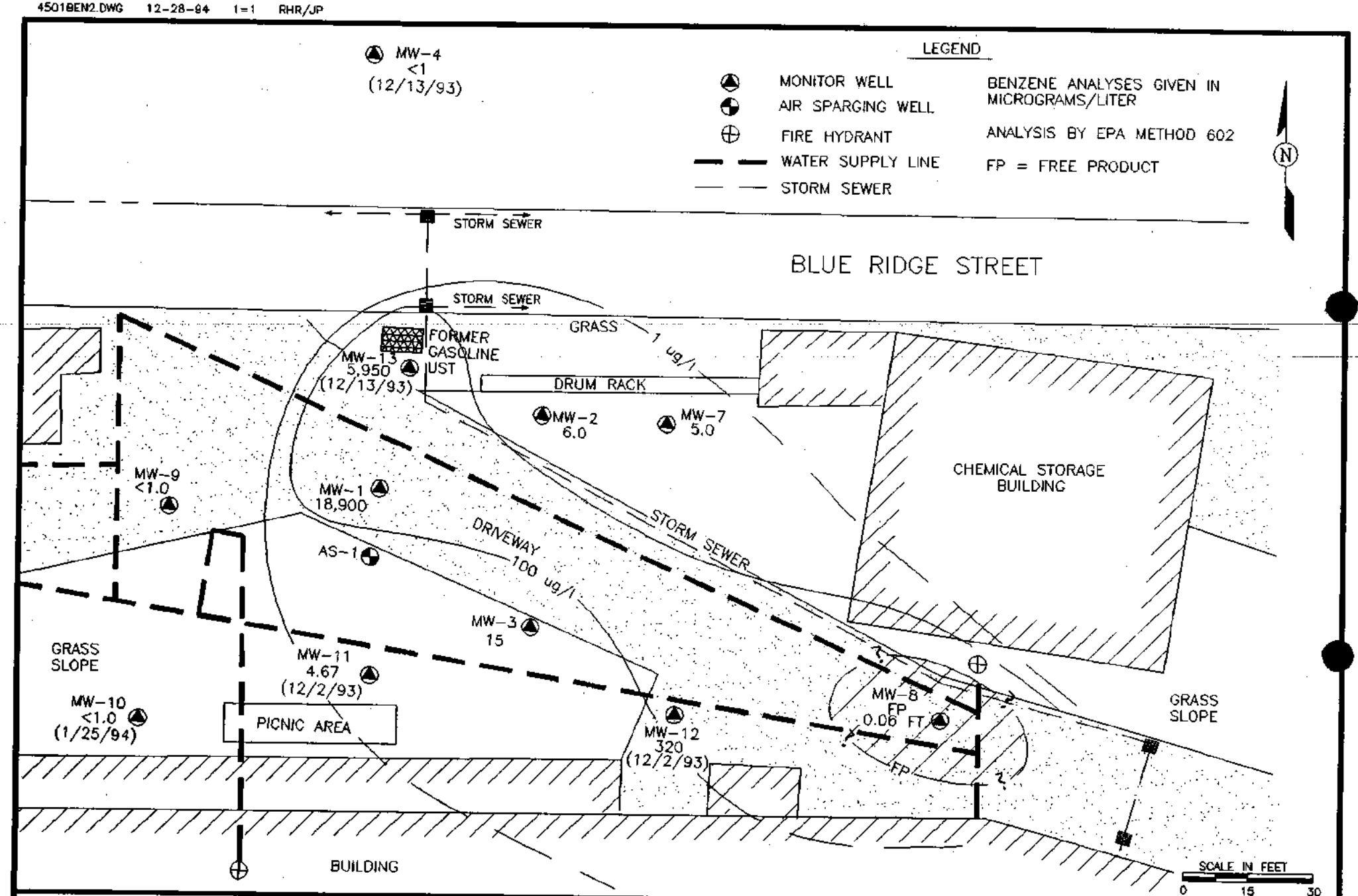
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-12/14/94

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

4501BEN2.DWG 12-28-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER BENZENE AND FREE PRODUCT ISOCONCENTRATION CONTOUR MAP – 12/14/94

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

TABLE 1
GASOLINE UST AREA
GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

Well ID Elevation (ft.)	Date	Depth to Water (ft.BTOC)	Ground Water Elevation (ft.)
MW-1	12/17/93	8.85	89.75
98.60	1/31/94	8.69	89.91
	12/14/94	9.20	89.40
MW-2	12/17/93	9.24	88.15
97.39	1/31/94	6.09	91.30
	12/14/94	6.31	91.08
MW-3	12/17/93	6.54	88.52
95.06	1/31/94	6.37	88.69
	12/14/94	6.50	88.56
MW-4	12/17/93	12.75	94.88
107.63	1/31/94	12.50	95.13
	12/14/94	12.73	94.90
MW-7	12/17/93	4.67	91.23
95.90	1/31/94	4.53	91.37
	12/14/94	4.76	91.14
MW-8	1/31/94	1.93	87.24
89.17	12/14/94	1.94 (1.88)	87.28*
MW-9	1/31/94	9.43	89.96
99.39	12/14/94	9.65	89.74
MW-10	1/31/94	2.37	89.55
91.92	12/14/94	3.19	88.73
MW-11	1/31/94	0.74	91.37
92.11	12/14/94	0.95	91.16
MW-12	1/31/94	2.39	88.01
90.40	12/14/94	2.83	87.57
MW-13	1/31/94	8.73	91.75
100.48	12/14/94	8.97	91.51

Notes:
BTOC = Below top of casing
(1.88) = Depth to product
* = Calculated ground water elevation factoring in free product thickness
Elevations are relative to an on-site benchmark with an assigned elevation of 100.00 feet.

TABLE 2
FORMER GASOLINE UST AREA
GROUND WATER BTEX + MTBE ANALYTICAL RESULTS
DREXEL HERITAGE FURNISHING PLANT #2
MARION, NORTH CAROLINA

WELL ID	DATE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	MTBE
MW-1	3-29-93	25,800	31,400	2,900	15,200	75,300	28,400
	8-10-93	24,700	30,500	2,330	11,210	68,740	8,720
	12-14-94	18,900	22,300	2,180	11,500	54,880	1,130
MW-2	3-29-93	3	13	17	61	94	ND
	8-10-93	1,080	6,936	1,330	5,010	14,356	ND
	12-14-94	6	207	994	5,590	6,797	ND
MW-3	3-29-93	17	1,060	1,460	1,290	3,827	ND
	8-10-93	ND	2,590	3,180	8,320	14,090	ND
	12-14-94	15	42	13	45	115	ND
MW-4	12-13-93	ND	ND	ND	ND	ND	ND
MW-7	12-13-93	ND	ND	ND	ND	ND	ND
	12-14-94	5	2	6	70	83	ND
[illegible]	1-25-94	10	98	51	267	426	ND
MW-9	1-25-94	ND	ND	ND	ND	ND	ND
	12-14-94	ND	ND	ND	ND	ND	ND
MW-10	1-25-94	ND	ND	ND	ND	ND	ND
MW-11	12-2-93	4.67	6.39	50.9	190	252	ND
MW-12	12-2-93	320	980	1,090	2,340	4,730	ND
MW-13	12-2-93	5,950	10,100	2,580	4,365	22,995	ND

NOTES: BTEX = Benzene + Toluene = Ethylbenzene + Xylenes
Analytical results given in micrograms per liter
MTBE = methyl tert butyl ether
Analysis by EPA Method 602.

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A057812

Sample ID: MW-9

Date Collected: 12/14/94

Project: 4501

Time Collected: 12:20

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 307

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	< 10.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	100.	50 - 150

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 4207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A067813

Sample ID: MW-3

Date Collected: 12/14/94

Project: 4501

Time Collected: 12:40

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	15.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	42.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	13.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	45.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	< 10.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	96.	50 - 150

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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A57814

Sample ID: MW-2

Date Collected: 12/14/94

Project: 4501

Time Collected: 13:20

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	6.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	207.	ug/l	22.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	994.	ug/l	22.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	5590	ug/l	22.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	25.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	99.	50 - 150

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Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6807
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A067815

Sample ID: MW-7

Date Collected: 12/14/94

Project: 4501

Time Collected: 13:40

Project Name: DEXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	5.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	2.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	6.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	70.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	< 10.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
PTEX/GRO Surrogate	101.	50 - 150

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Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A067816

Sample ID: MW-1

Date Collected: 12/14/94

Project: 4501

Time Collected: 14:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

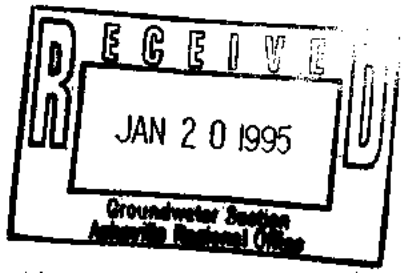
Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	18900	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Toluene	22300	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	2180	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	11500	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	1130	ug/l	900.	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRO Surrogate	106.	50 - 150

Laboratory Supervisor



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300 12th Avenue South
Nashville, Tennessee 37203

PROJECT QUALITY CONTROL DATA

ERM - SOUTHEAST, INC. 6207

Report Number: 94-A067817

Sample I.D.:

Lab Project: 18894

Project: 4501

Date Received: 12/15/94

****

** UST Spike/Duplicate Results **

Compound	%Recovery	Target Range	Precision RPD	Target Range
Benzene	105.	70 - 130	2.9	0 - 20
Toluene	101.	70 - 130	3.0	0 - 20
Ethyl benzene	103.	70 - 130	6.0	0 - 20
Xylene	102.	70 - 130	1.0	0 - 20

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300 12th Ave., South
Nashville, TN 37203
615-726-0177
FAX 615-726-3404

REFERRING CLIENT

ERM-Southeast, Inc. 4013
Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
704 541-8345 FAX 541-8416

BILLING CONTROL NUMBER (FOR LAB USE ONLY) 18234

PROJECT # Drexel 4501

P.O. # 4501

SAMPLERS (Signature-Please Print) Jerry Prosser - Jerry Prosser

PROJECT NAME Drexel Heritage Plant #2

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	FORM	ANALYSIS REQUESTED
67812	MW-9	12/14	12:20			2	BTEX + MTBE by EPA 602
67813	MW-3	12/14	12:40			2	
67814	MW-2	12/14	13:20			2	
67815	MW-7	12/14	13:40			2	
67816	MW-1	12/14	14:00			2	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jerry Prosser	12/14 17:00	Fed. Express
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Received for Laboratory by: Keven Bradwell Date/Time 12/15/94 0900

Remarks

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Asheville Regional Office

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

ARH 7917

MCCO
11090 Drexel Heritage #2
Willwear Hosiery Mfg. Co.
MES

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

July 13, 1995

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

Re: Second Quarter 1995 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Second Quarter 1995 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on July 11, 1995. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Free product was not detected on the water table at the site during the July 11, 1995 sampling event.

The site Corrective Action Plan, which proposed soil vapor extraction/air sparging (SVE/AS) ground water remediation, was formally approved on January 4, 1995. All of the mechanical and subsurface components of the SVE/AS system were installed in May and June, 1995. Start-up of the system is pending the hook-up of electrical power to the system by Duke Power Company. ERM-Southeast anticipates start-up of the system by late July 1995.

Recent observations of free product seepage from the base of the retaining wall located adjacent to the south wall of the Drexel Heritage chemical storage building, and the periodic presence of free product in monitor well MW-8, prompted Drexel Heritage to meet with DEM, ERM-Southeast, Willwear Hosiery Company, and Willwear's consultant Alpha Environmental Sciences, Inc. on-site on May 31, 1995. The observed free product seepage appears to be related to the release of approximately 2,000 gallons of #2 fuel oil from the Willwear property in January 1994, and possibly from earlier undocumented releases at the Willwear site.

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Offices of ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

As a result of the May 31 on-site meeting, Willwear accepted responsibility for the observed free product seepage and agreed to monitor potential vapor hazards that may be caused by free product seepage on the Drexel Heritage site. Drexel Heritage maintenance personnel will monitor and mitigate runoff of the free product seepage.

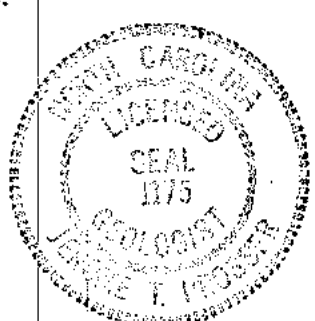
ERM

In accordance with the site CAP, Drexel Heritage plans to submit the Third Quarter 1995 quarterly report to DEM by October 31, 1995. The report will document ground water monitoring and and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

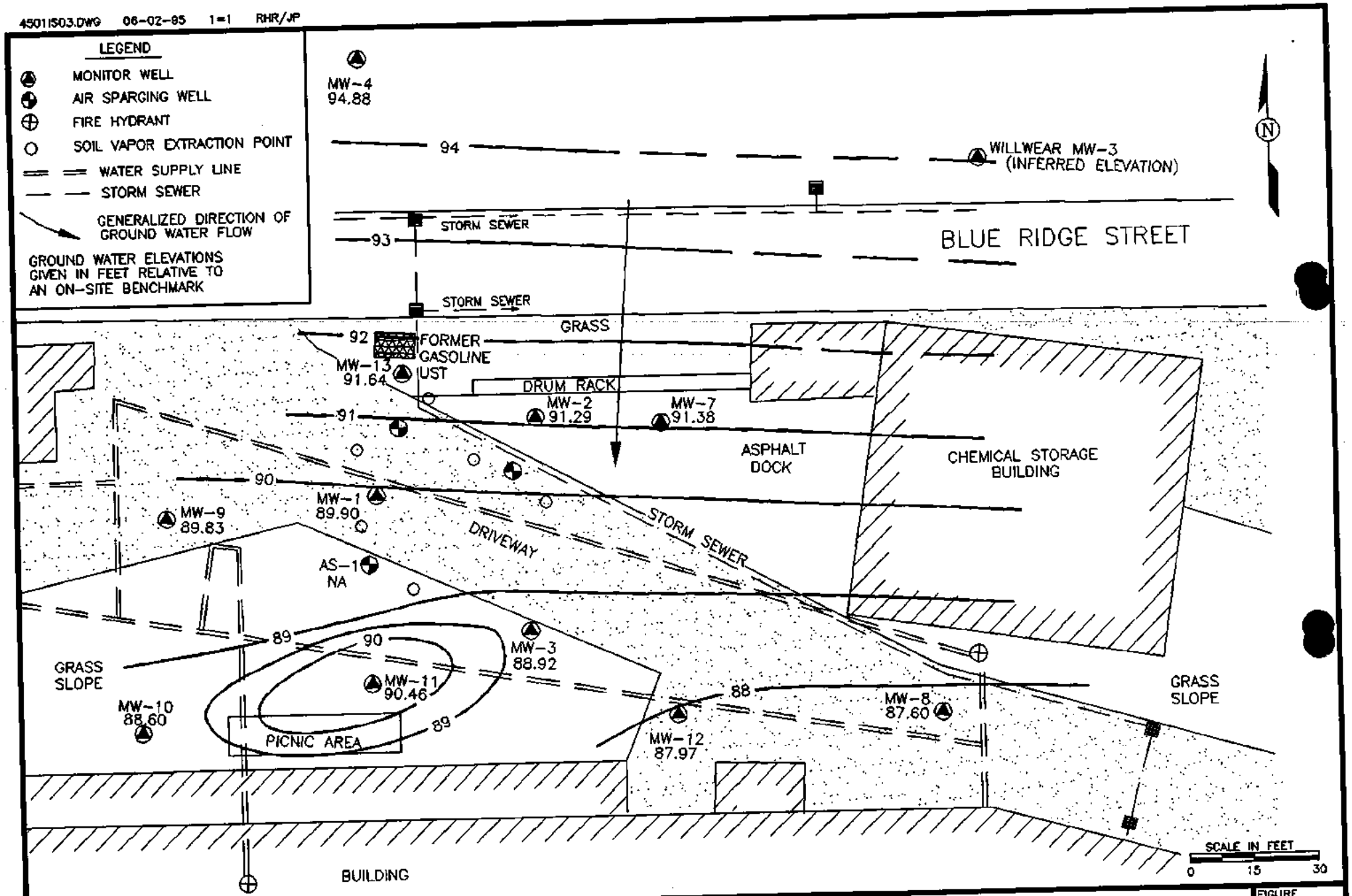
Sincerely,
ERM-SOUTHEAST, INC.

Jerry Prosser, P.G.
Project Manager



cc: S. Carter - Drexel Heritage
M. Lake - MASCO

jp13:drex2-2.qtr



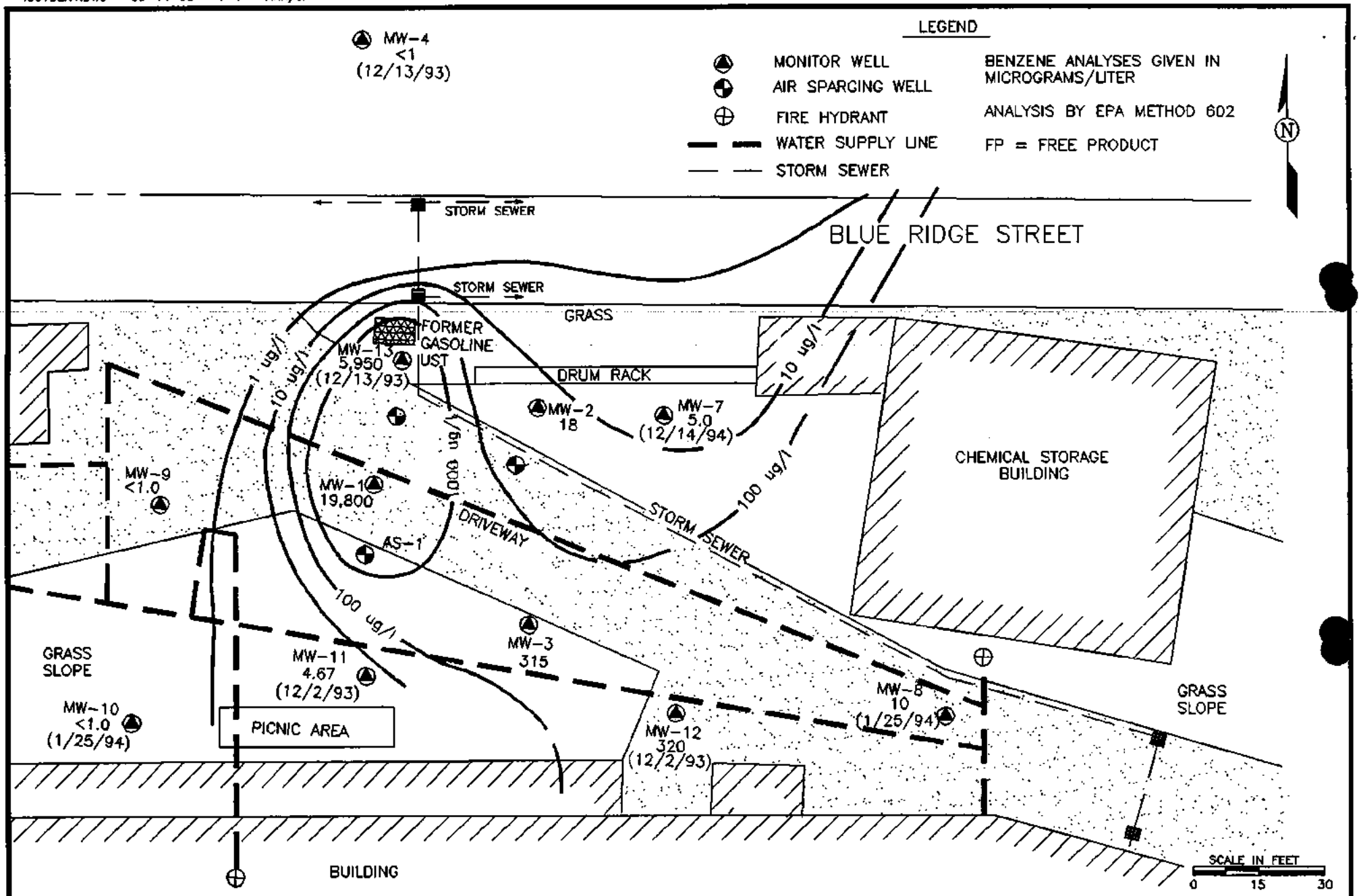
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-5/31/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

45019EN4.DWG 06-14-95 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER BENZENE ISOCONCENTRATION CONTOUR MAP - 5/31/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

DATE	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88

DATE	MW-7 95.90		MW-8 89.17				MW-9 99.39	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83

DATE	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	530	200	NS

Analytical results given in micrograms per liter.
"–" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

CSM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A030695

Sample ID: MW-1

Date Collected: 5/31/95

Project: 4501-3

Time Collected: 15:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PROSSER

Time Received: 9:20

State Certification: 397

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	19800	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Toluene	21600	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Ethylbenzene	900.	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Xylenes, total	6750	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Methyl-t-butylether	4500	ug/l	10.0	450	6/13/95	11:29	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	%	50 - 150

Laboratory Supervisor

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PRUSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A030596

Sample ID: MW-2

Date Collected: 5/31/95

Project: 4501-5

Time Collected: 15:10

Project Name: CARGILL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PRUSSER

Time Received: 9:20

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	18.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Toluene	44.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Ethylbenzene	220.	ug/l	1.0	10	6/ 7/95	13:02	P.Williams	602
Xylenes, total	590.	ug/l	1.0	10	6/ 7/95	13:02	P.Williams	602
Methyl-t-butylether	47.0	ug/l	10.0	1	6/ 7/95	13:02	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	105.	50 - 150

Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

SRM - SOUTHEAST, INC. 6307
ATT. JERRY PROSSER
7000 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-AC30577

Sample ID: MW-3

Date Collected: 5/31/95

Project: 4301-S

Time Collected: 15:20

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PROSSER

Time Received: 9:20

State Certification: 987

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	315.	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Toluene	3460	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Ethylbenzene	720.	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Xylenes, total	3640	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Methyl-t-butylether	81.0	ug/l	10.0	1	6/ 7/95	13:02	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	104.	50 - 150

Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A030593

Sample ID: MW-9

Date Collected: 5/31/95

Project: 4301-5

Time Collected: 15:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PROSSER

Time Received: 9:20

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Toluene	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Ethylbenzene	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Xylenes, total	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Methyl-t-butylether	< 10.0	ug/l	10.0	1	6/ 7/95	13:02	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	97.	50 - 150

Laboratory Supervisor

COPY 3

SPECIALIZED ANALYTICS
ENVIRONMENTAL



2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

ERM-Southeast, Inc
Jerry Prosser
Suite 200
7300 Carmel Exec. Park
Charlotte, NC ~~28205~~ 28226

BILLING CONTROL NUMBER (FOR LAB USE ONLY) 26382

PROJECT # 4501-5

P.O. # 4501-5

SAMPLERS (Signature-Please Print) Jerry Prosser

PROJECT NAME Drexel Heritage Plant #2

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
[illegible]	MW-1	5/31	15:00		X	2	BTEX + MTBE by EPA 602
[illegible]	MW-2	5/31	15:10		X	2	↓
[illegible]	MW-3	5/31	15:20		X	2	↓
[illegible]	MW-9	5/31	15:30		X	2	↓

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jerry Prosser	~~5/31~~ 6/1 18:00	Federal Express
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Received for Laboratory by: [illegible] Date / Time 6/2/95 0920

Remarks

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

MCCO
11091
DREXEL HERITAGE PLT 2 -
MES 10/24/95 MARION

RECEIVED
OCT 24 1995
Groundwater Section
Asheville Regional Office

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

October 23, 1995

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Third Quarter 1995 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Third Quarter 1995 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on September 6, 1995. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Free product was not detected on the water table at the site during the September 6, 1995 sampling event.

The site soil vapor extraction/air sparging (SVE/AS) ground water remediation system installation was completed in July 1995 and system start-up took place on July 25, 1995. The system has operated continuously since start-up. Air emission analytical data collected on September 6, 1995 indicate that gasoline range organics (GRO) are being removed from the surficial aquifer at a rate of approximately three pounds/day (1,125 pounds/year). The SVE/AS system performance is summarized in Table 3.

Ground water quality appears to have improved significantly at MW-2 and MW-3 relative to ground water analyses conducted prior to start-up of the SVE/AS system. Ground water analyses from monitor well MW-1 indicate marginal improvement in ground water quality.

Offices of
ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp14:drex2-3.qtr

In accordance with the site CAP, Drexel Heritage plans to submit the Fourth Quarter 1995 quarterly report to DEM by January 31, 1996. The report will document ground water monitoring and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

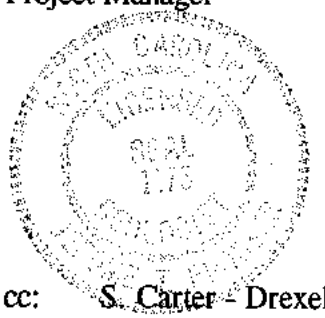
Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

ERM

Sincerely,

ERM-SOUTHEAST, INC.

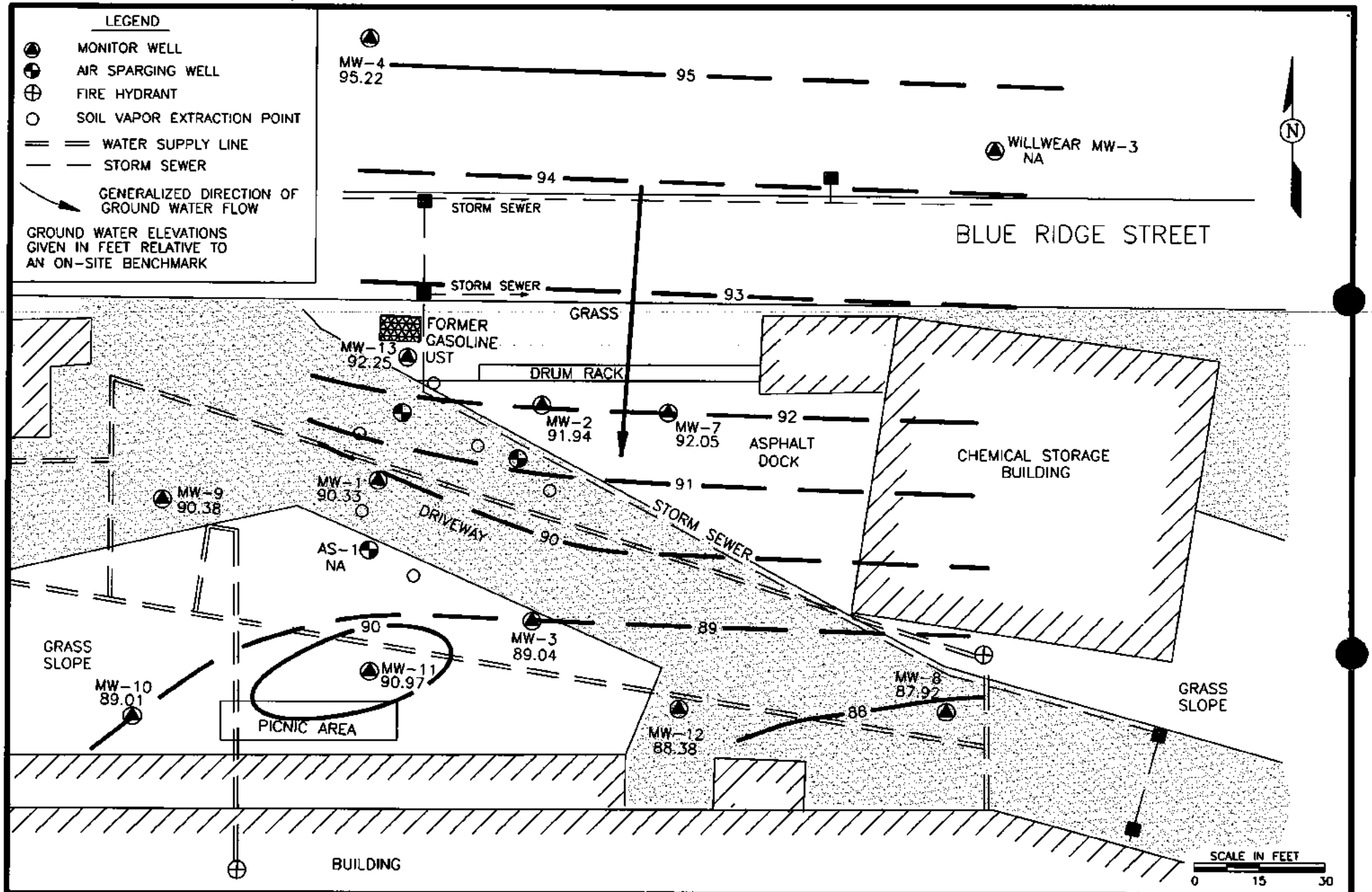
Jerry Prosser, P.G.
Project Manager



cc: S. Carter - Drexel Heritage
M. Glantz - MASCO

jp14:drex2-3.qtr

4501IS04.DWG 09-12-95 1=1 RHR/JP



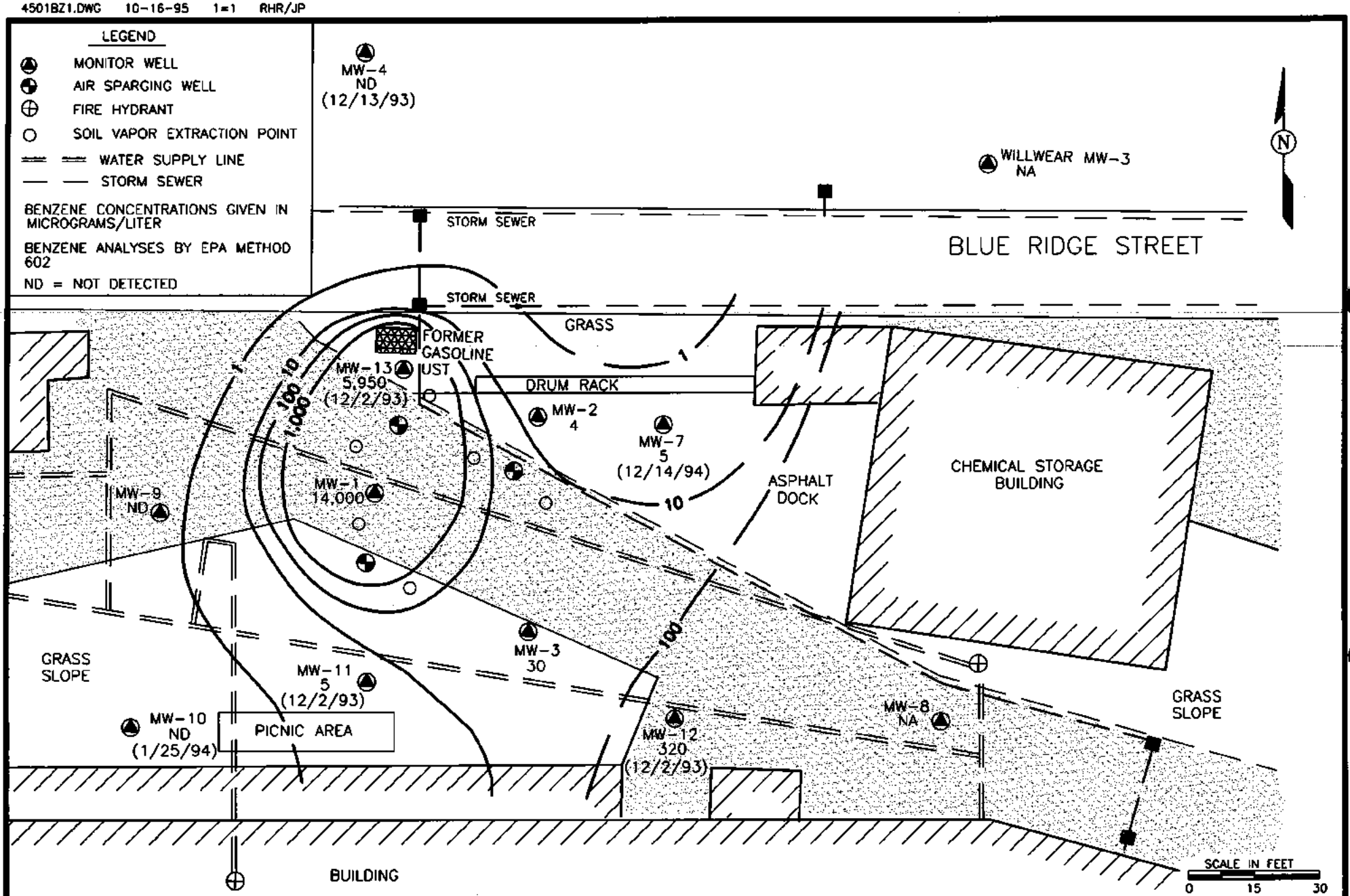
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-9/6/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

4501BZ1.DWG 10-16-95 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-9/6/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

DATE	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22

DATE	MW-7 95.90		MW-8 89.17				MW-9 99.39	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38

DATE	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	530	200	NS

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 200
CHARLOTTE, NC 28226

Lab Number: 95-A051280

Sample ID: MW-1

Date Collected: 9/ 6/95

Project: 4501

Time Collected: 13:30

Project Name: DREXEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY HAGAN

Time Received: 9:15

State Certification: 327

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Detection Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	14000	ug/l	1.0	180	9/ 9/95	8:39	J. James	602
Toluene	18900	ug/l	1.0	180	9/ 9/95	8:39	J. James	602
Ethylbenzene	1620	ug/l	1.0	90	9/ 9/95	8:39	J. James	602
Xylenes, total	9900	ug/l	1.0	90	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	2340	ug/l	10.0	90	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	101.	50 - 150

T. J. Maultsby
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

EPM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 200
CHARLOTTE, NC 28226

Lab Number: 95-A0512a1

Sample ID: MW-2

Date Collected: 9/ 6/95

Project: 4501

Time Collected: 14:00

Project Name: DANIEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY MAGAN

Time Received: 9:15

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	4.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Toluene	3.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Ethylbenzene	3.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Xylenes, total	88.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	< 10.0	ug/l	10.0	1	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BFEX/SRO Surrogate	107.	50 - 150

T. J. Dunlap
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

EPM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 300
CHARLOTTE, NC 28226

Lab Number: 95-A051282

Sample ID: MW-8

Date Collected: 9/ 6/95

Project: 4501

Time Collected: 14:30

Project Name: DREXEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY HAGAN

Time Received: 9:15

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	30.0	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Toluene	160.	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Ethylbenzene	140.	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Xylenes, total	405.	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	18.0	ug/l	10.0	1	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	108.	50 - 150

T. J. Dudley
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 200
CHARLOTTE, NC 28226

Lab Number: 95-A051283

Sample ID: MW-9

Date Collected: 9/ 6/95

Project: 4301

Time Collected: 15:00

Project Name: DREXEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY HAGAN

Time Received: 9:15

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Toluene	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Ethylbenzene	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Xylenes, total	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	< 10.0	ug/l	10.0	1	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	102.	50 - 150

T. J. Burke
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Ave., South
Nashville, TN 37203
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

BILLING CONTROL NUMBER (FOR LAB USE ONLY)	PROJECT #	P.O. #

SAMPLERS (Signature-Please Print)	PROJECT NAME

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ESM - SOUTHEAST, INC. 5807
ATT: JERRY PROSSER
7200 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-0052590

Sample ID: SVE/AS-1

Date Collected: 9/13/95

Project: 4501

Time Collected: 16:40

Project Name: DEXSIL HERITAGE PLANT #2 MARION, NCDate Received: 9/14/95

Sampler: JAY LANEY

Time Received: 9:30

AIHA Certificate #: 517

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	4.97	mg/m3	9/15/95	17:09	G.Norton	EPA-18
Benzene	84.8	mg/m3	9/15/95	17:09	G.Norton	EPA-18
Xylene	6.64	mg/m3	9/15/95	17:09	G.Norton	EPA-18
Ethyl benzene	1.06	mg/m3	9/15/95	17:09	G.Norton	EPA-18
GRO	209.	mg/m3	9/15/95	17:09	G.Norton	EPA-18

Report Approved by: Michael A. Dunn

COPY 3

SPECIALIZED ASSAYS ENVIRONMENTAL

300 12th Ave., South
Nashville, TN 37203
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

Account: 6207
B&M - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8345 Fax: 704-541-8416

BILLING CONTROL NUMBER (FOR LAB USE ONLY) 31730

PROJECT # 4501 —

P.O. #

SAMPLERS (Signature-Please Print) JAY LANZY

PROJECT NAME Drexel Heritage Plant #2 -MARION INC.

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
95-A052590	SVE/AS-1	9-13-95	16:40		X	2	BTEX TPH

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	9-13-95 16:51		Vivian Birdwell	9/14/95 0930
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

EPN - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CAPITOL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A042655

Sample ID: SVE/AS-1

Date Collected: 7/25/95

Project: 4501

Time Collected:

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 7/26/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

AIHA Certificate #: 517

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	2.45	mg/m3	6/26/95	15:42	G.Norton	Method 18
Benzene	3.66	mg/m3	6/26/95	15:42	G.Norton	Method 18
Xylene	7.33	mg/m3	6/26/95	15:42	G.Norton	Method 18
Ethyl benzene	1.84	mg/m3	6/26/95	15:42	G.Norton	Method 18
GRO	222.	mg/m3	6/26/95	15:42	G.Norton	Method 18

Report Approved by: Michael A. Dreese

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

EMM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A042656

Sample ID: SVE/AS-2

Date Collected: 7/25/95

Project: 4301

Time Collected:

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 7/26/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

AIHA Certificate #: 517

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	< 0.500	mg/m3	6/26/95	15:42	G.Norton	Method 18
Benzene	2.24	mg/m3	6/26/95	15:42	G.Norton	Method 18
Xylene	3.19	mg/m3	6/26/95	15:42	G.Norton	Method 18
Ethyl benzene	< 0.500	mg/m3	6/26/95	15:42	G.Norton	Method 18
GRX	11.5	mg/m3	6/26/95	15:42	G.Norton	Method 18

Report Approved by: Michael A. Dunn

COPY 3

ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

ERM-Southeast, Inc
Suite 200
7300 Carmel Executive Pk
Charlotte NC 28226
Attn: Terry Prosser

G CONTROL NUMBER (FOR LAB USE ONLY) 29143

PROJECT # 4501

P.O. #

ERS (Signature-Please Print) - Andy Nunnally

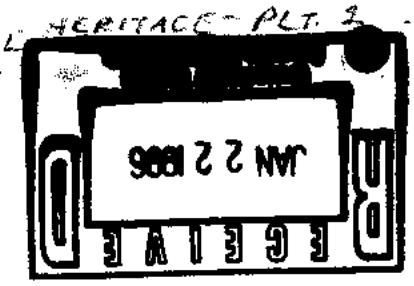
PROJECT NAME Drexel Heritage Plant #2

LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
-A042655	SVE/AS-1	7/25/95			X	1	TPH BTGX
-A042656	SVE/AS-2	7/25/95			X	1	TPH BTGX

ished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	7/25/95 1800		Adam W. Hall	7/26/95 0900
ished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
ished by: (Signature)	Date / Time	Received by: (Signature)		
ished by: (Signature)	Date / Time	Received by: (Signature)		

or further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

BKCo
11091
DREXEL HERITAGE - PLT 3
MES



ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

January 19, 1996

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Fourth Quarter 1995 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Fourth Quarter 1995 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on December 14, 1995. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Free product was not detected on the water table at the site during the December 14, 1995 sampling event.

The site soil vapor extraction/air sparging (SVE/AS) ground water remediation system was in continuous operation from July 25, 1995 through November 25, 1995. A water main ruptured beneath the SVE/AS system on November 25 and caused extensive damage to the system and the concrete driveway. Repairs have been made to the system, but the system cannot be re-started until the concrete pavement has been replaced. The SVE/AS system is expected to be re-started in mid-January 1996. Air emission analytical data collected on November 21, 1995 indicate that gasoline range organics (GRO) are being removed from the surficial aquifer at a rate of approximately 0.75 pounds/day (275 pounds/year). The SVE/AS system performance is summarized in Table 3.

In accordance with the site CAP, Drexel Heritage plans to submit the First Quarter 1996 quarterly report to DEM by April 30, 1996. The report will document ground water monitoring and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

Offices of
ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp14:drex2-3.qtr

Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

Sincerely,

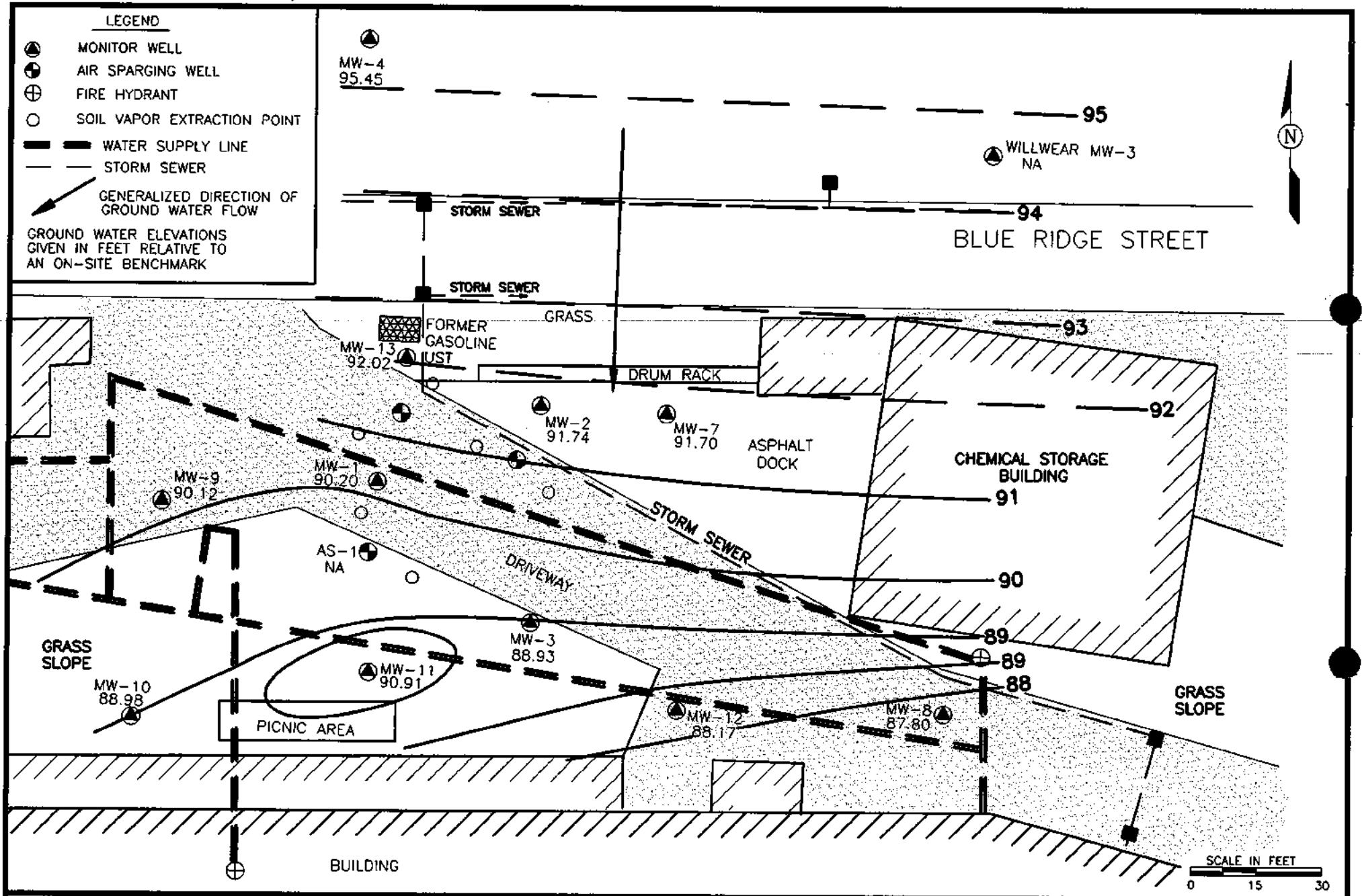
ERM-SOUTHEAST, INC.

Jerry Prosser, P.G.
Project Manager

cc: S. Carter - Drexel Heritage
M. Glantz - MASCO

jp14:drex2-3.qtr

4501ISO4.DWG 09-12-95 1=1 RHR/JP



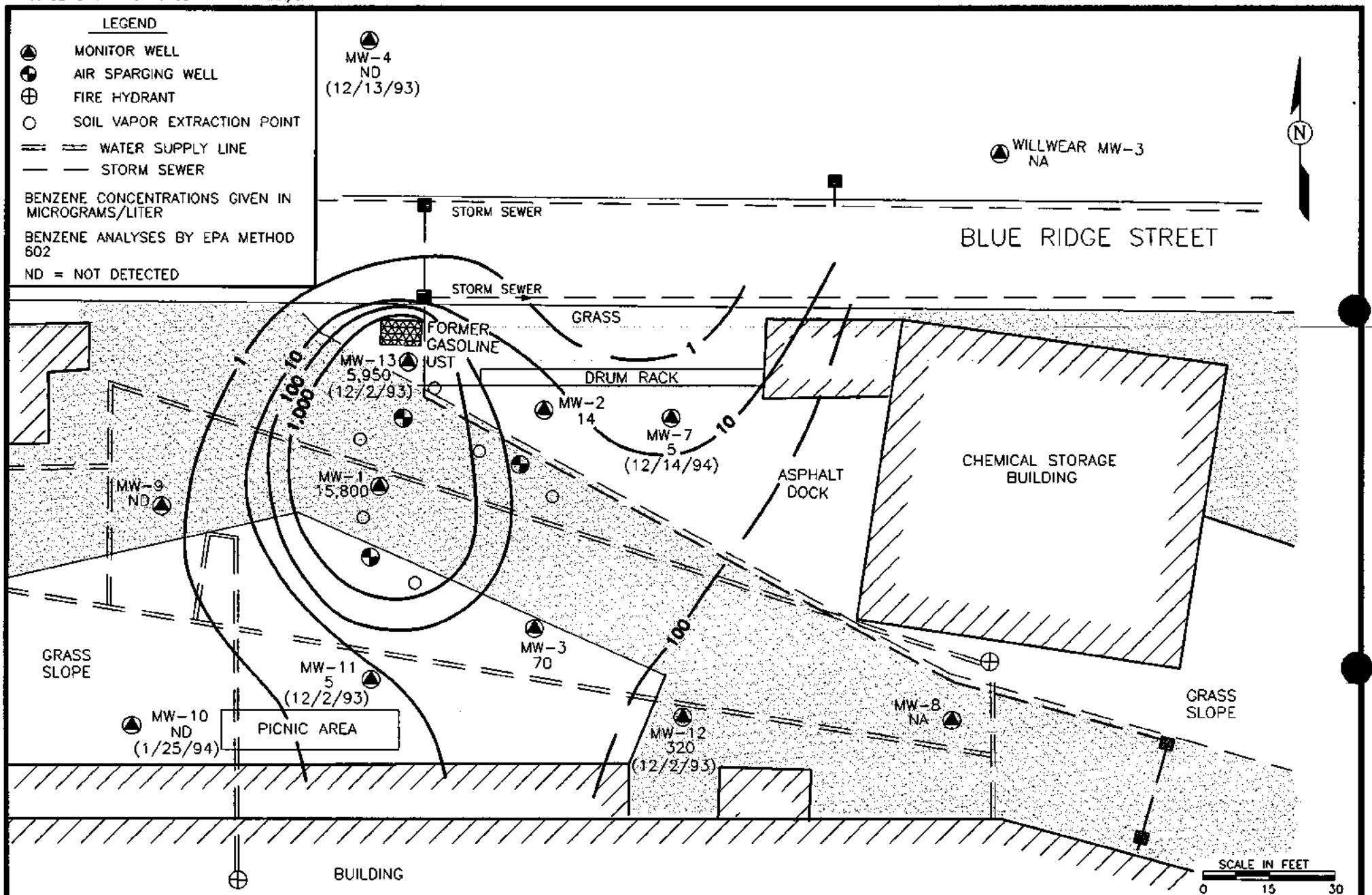
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-12/14/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 1

4501BZ1.DWG 10-16-95 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-12/14/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22
12/14/95	8.40	90.20	5.65	91.74	6.13	88.93	12.18	95.45

	MW-7 95.90		MW-8 89.17				MW-9 99.39	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38
12/14/95	4.20	91.70	1.37	--	--	87.80	9.27	90.12

	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25
12/14/95	2.94	88.98	1.20	90.91	2.23	88.17	8.46	92.02

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	530	200	NS

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	29	530	200

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

RECEIVED
BY:

ERM -- SOUTHEAST, INC. 6807
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072868

Sample ID: MW-9

Date Collected: 12/14/95

Project: 4501

Time Collected: 11:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Toluene	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Ethylbenzene	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Xylenes, total	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	12/20/95	12:45	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRC Surrogate	87.	50 - 150

Report Approved By: _____ Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072864

Sample ID: MW-1

Date Collected: 12/14/95

Project: 4501

Time Collected: 12:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	15800	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Toluene	22300	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Ethylbenzene	1800	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Xylenes, total	9670	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Methyl-t-butylether	5760	ug/l	450.	10.0	45.0	12/20/95	12:45	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRO Surrogate	95.	50 - 150

Report Approved By: _____ Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072865

Sample ID: MW-2

Date Collected: 12/14/95

Project: 4501

Time Collected: 13:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	14.0	ug/l	1.0	1.0	1.0	12/19/95	16:39	Wasilewski	602
Toluene	82.0	ug/l	1.0	1.0	1.0	12/19/95	16:39	Wasilewski	602
Ethylbenzene	190.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Xylenes, total	2250	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Methyl-t-butylether	46.0	ug/l	10.0	10.0	1.0	12/19/95	16:39	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRD Surrogate	104.	50 - 150

Report Approved By: _____ Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny R. Hale, M.S.

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SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072866

Sample ID: MW-3

Date Collected: 12/14/95

Project: 4501

Time Collected: 12:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	70.0	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Toluene	670.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Ethylbenzene	200.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Xylenes, total	570.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Methyl-t-butylether	ND	ug/l	100.	10.0	10.0	12/19/95	16:39	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRO Surrogate	99.	50 - 150

Report Approved By: Danny Hale Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny K. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL



2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

Jerry Prosser
ERM-Southeast
Suite 200, 7300 Carmel Ex. Park
Charlotte NC 28226
704-541-8345

ING CONTROL NUMBER (FOR LAB USE ONLY) 360600

PROJECT # 4501

P.O. #

IPLERS (Signature-Please Print) - Andy Nunnally

PROJECT NAME Drexel Heritage Plant #2

OR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
72863	MW-9	12/14/95	1130			2	BTEX + MTBE
72864	MW-1	12/14/95	1200			2	BTEX + MTBE
72865	MW-2	12/14/95	1300			2	BTEX + MTBE
72866	MW-3	12/14/95	1230			2	BTEX + MTBE

nquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	12/14/95 1600		Kevin Burdwell	12/15/95 0900
nquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
			North Carolina samples	
nquished by: (Signature)	Date / Time	Received by: (Signature)		
nquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite sid

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A067858

Sample ID: 1-INFLUENT AIR

Date Collected: 11/21/95

Project:

Time Collected: 15:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 11/22/95

Sampler: JAY LANZY

Time Received: 9:30

AIHA Certificate #: 517

Sample Type: AIR BAG

Analyte	Result	Units	Date	Time	Analyst	Method
GRO	75.6	mg/m3	11/22/95	16:03	G.Norton	EPA-18

Report Approved by: Theodore J. Duello Report Date: 11/28/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A067859

Sample ID: 2-EFFLUENT AIR

Date Collected: 11/21/95

Project:

Time Collected: 15:35

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 11/22/95

Sampler: JAY LANZY

Time Received: 9:30

AIHA Certificate #: 517

Sample Type: AIR BAG

Analyte	Result	Units	Date	Time	Analyst	Method
GRO	156.	mg/m3	11/22/95	16:03	G.Norton	EPA-18

Report Approved by: Theodore J. Duello Report Date: 11/28/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

Specialized Assays: (800) 765-0980

REFERRING CLIENT

Account: 6207
ERM - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8416 Fax: - -

BILLING CONTROL NUMBER (FOR LAB USE ONLY): 35358

PROJECT #:

P.O. #:

SAMPLERS (Signature-Please Print): JAY C LOVEY

PROJECT NAME: Drexel Heritage plant #2

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
67858	1. Effluent Air	11-21	1510		X	1	Gasoline Range Organics
67859	2. Effluent Air	11-21	1535		X	1	Gasoline Range Organics

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
[signature]	11/22/95 1622		[signature]	11/22/95 0930
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
			Will call for Air with GC/FID	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

MCCO
11091
DREXEL HERITA PLT. 2
MES 4/15/96

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

April 10, 1996

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: First Quarter 1996 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the First Quarter 1996 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on March 1, 1996. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Laboratory data sheets can be referenced in Attachment A. Free product was not detected on the water table at the site during the March 1, 1996 sampling event.

The site SVE/AS remediation system re-started on immediately following repair of the ruptured water main and infrastructure at the site. The SVE/AS ground water remediation system was not operational from November 25, 1995 through February 12, 1996 due to the damage associated with the ruptured water main. The operational performance of the SVE/AS system is summarized in Table 3.

In accordance with the site CAP, Drexel Heritage plans to submit the Second Quarter 1996 quarterly report to DEM by July 31, 1996. The report will document ground water monitoring and and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

RECEIVED
APR 15 1996
Groundwater Section
Asheville Regional Office

Offices of ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp15:drex2-1.qtr

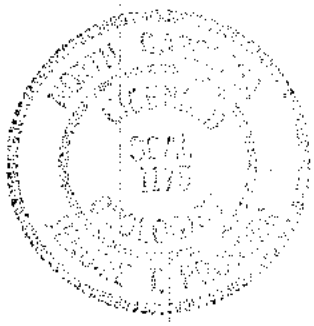
Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

ERM

Sincerely,

ERM-SOUTHEAST, INC.

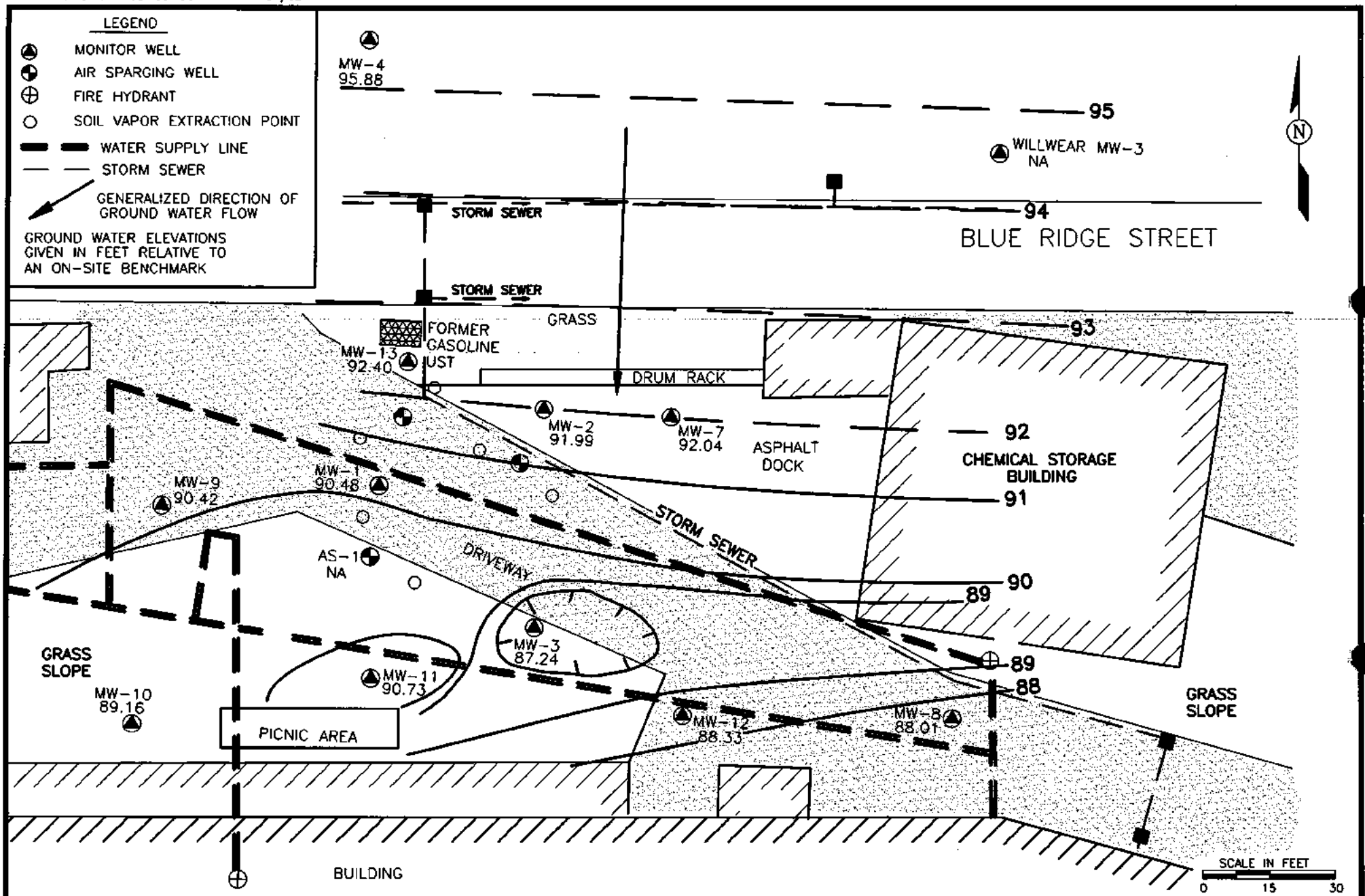
Jerry Prosser, P.G.
Project Manager



cc: S. Carter - Drexel Heritage
M. Lake - MASCO

jp15:drex2-1.qtr

4501ISO4.DWG 03-09-96 1=1 JP/JLP



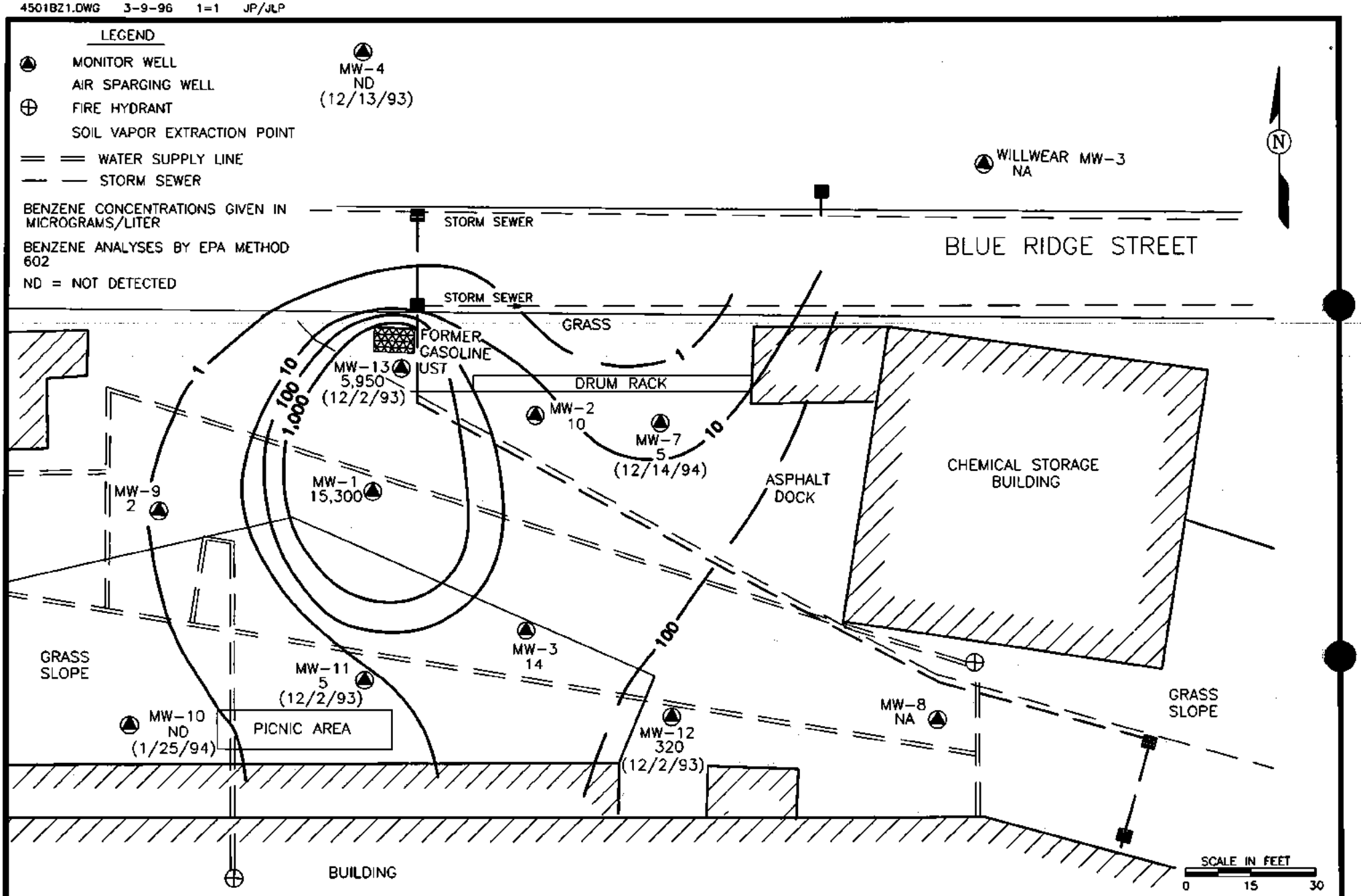
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-3/1/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 1

4501BZ1.DWG 3-9-96 1=1 JP/JLP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-3/1/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22
12/14/95	8.40	90.20	5.65	91.74	6.13	88.93	12.18	95.45
3/1/96	8.12	90.48	5.40	91.99	7.82	87.24	11.75	95.88

	MW-7 95.90		MW-8 89.17				MW-9 99.39	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38
12/14/95	4.20	91.70	1.37	--	--	87.80	9.27	90.12
3/1/96	3.86	92.04	1.16	--	--	88.01	8.97	90.42

	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25
12/14/95	2.94	88.98	1.20	90.91	2.23	88.17	8.46	92.02
3/1/96	2.76	89.16	1.38	90.73	2.07	88.33	8.08	92.40

g:\jerry\drexel43\4501-1.xls

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
	3/1/96	50,800	15,300	23,400	1,800	10,300	5,440
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
	3/1/96	1,460	10	60	70	1,320	<100
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
	3/1/96	101	14	10	51	26	<10
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
	3/1/96	2	2	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	29	530	200

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

g:\jerry\drexel2\4501-2.xls

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
(EV-1)	2/19/96	24	56	8.95	1.52	<0.5	2.36	73.7	17	136	0.05	0.37
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46
(EV-2)	2/19/96	24	56	13.10	3.78	0.50	3.60	93.9	24	174	0.07	0.48

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 4807
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-W11549

Sample ID: MW-9

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:59

Project Name: DARNEL HERITAGE PLANT #2 1ST QU.

Date Received: 3/ 2/96

Sampler: JAY LANZY

Time Received: 9:30

State Certification: 287

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	2.9	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Toluene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GFD Surrogate	96.	50 - 150

Report Approved By: Theodore J. Dueitt

Report Date: 3/ 6/96

Theodore J. Dueitt, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-03-1546

Sample ID: MW-1

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:45

Project Name: DREXEL HERITAGE PLANT #2 1ST QU.

Date Received: 3/ 2/96

Sampler: JAY LAZY

Time Received: 9:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	15900	ug/l	900.	1.0	900.	3/ 6/96	13:59	Wasilewski	602
Toluene	53400	ug/l	900.	1.0	900.	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	1860	ug/l	45.0	1.0	45.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	10300	ug/l	45.0	1.0	45.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	5440	ug/l	450.	10.0	45.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	94.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 6/96

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Michael H. Dunn, M.S.
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A011547

Sample ID: MW-2

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:30

Project Name: DREXEL HERITAGE PLANT #2 1ST OU.

Date Received: 3/ 2/96

Sampler: JAY LANZY

Time Received: 9:30

State Certifications: 327

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	10.0	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Toluene	49.0	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	70.0	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	1320	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	100.	10.0	10.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	102.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 6/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
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ANALYTICAL REPORT

ERM - SOUTHEAST, INC. a207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-401545

Sample ID: MW-3

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 17:15

Project Name: DREXEL HERITAGE PLANT #2 181 OU.

Date Received: 3/ 2/96

Sampler: JAY LANZY

Time Received: 9:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	14.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Toluene	10.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	5:.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	26.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	108.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 6/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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ANALYTICAL REPORT

SRM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A011549

Sample ID: MW-4

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:59

Project Name: DREXEL HERITAGE PLANT #2 1ST OU.

Date Received: 3/ 8/96

Sampler: JAY LANZY

Time Received: 9:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	2.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Toluene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BFB Surrogate	98.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 8/96

Theodore J. Dudik, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.



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ENVIRONMENTAL



2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

Specialized Assays: (800) 765-0980

REFERRING CLIENT

Account: 6207
ERM - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8416 Fax: - -

LING CONTROL NUMBER (FOR LAB USE ONLY) 40154

PROJECT # 4501

P.O. #

IPLERS (Signature-Please Print) JBY C. LANZY

PROJECT NAME Diesel Heritage plant #2. 1st Quarter.

OR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
11546	mw-1	3-1-96	16:45		X	2	BTEX + MTBE
11547	mw-2	3-1-96	16:30		X	2	BTEX, MTBE
11548	mw-3	3-1-96	17:15		X	2	BTEX, MTBE
11549	mw-4	3-1-96	16:59		X	2	BTEX, MTBE

quished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	3-1-96 17:00		Kevin Bridwell	3/4/96 0930
quished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
quished by: (Signature)	Date / Time	Received by: (Signature)		
quished by: (Signature)	Date / Time	Received by: (Signature)		

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Asheville Regional Office

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

MCCO
11091
DREXEL HERITAGE PLT #2 - MARION
MGS 7/[illegible]6

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

July 1, 1996

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Second Quarter 1996 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street, Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Second Quarter 1996 ground water monitoring quarterly report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on May 30, 1996. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Laboratory data sheets can be referenced in Attachment A. Free product was not detected on the water table at the site during the May 30, 1996 sampling event.

The site SVE/AS remediation system operated continuously during the Second Quarter. The operational performance of the SVE/AS system is summarized in Table 3.

In accordance with the site CAP, Drexel Heritage plans to submit the Third Quarter 1996 quarterly report to DEM by October 30, 1996. Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

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ASHEVILLE REGIONAL OFFICE

Sincerely,

ERM-SOUTHEAST, INC.

Jerry Prosser, P.G.
Project Manager

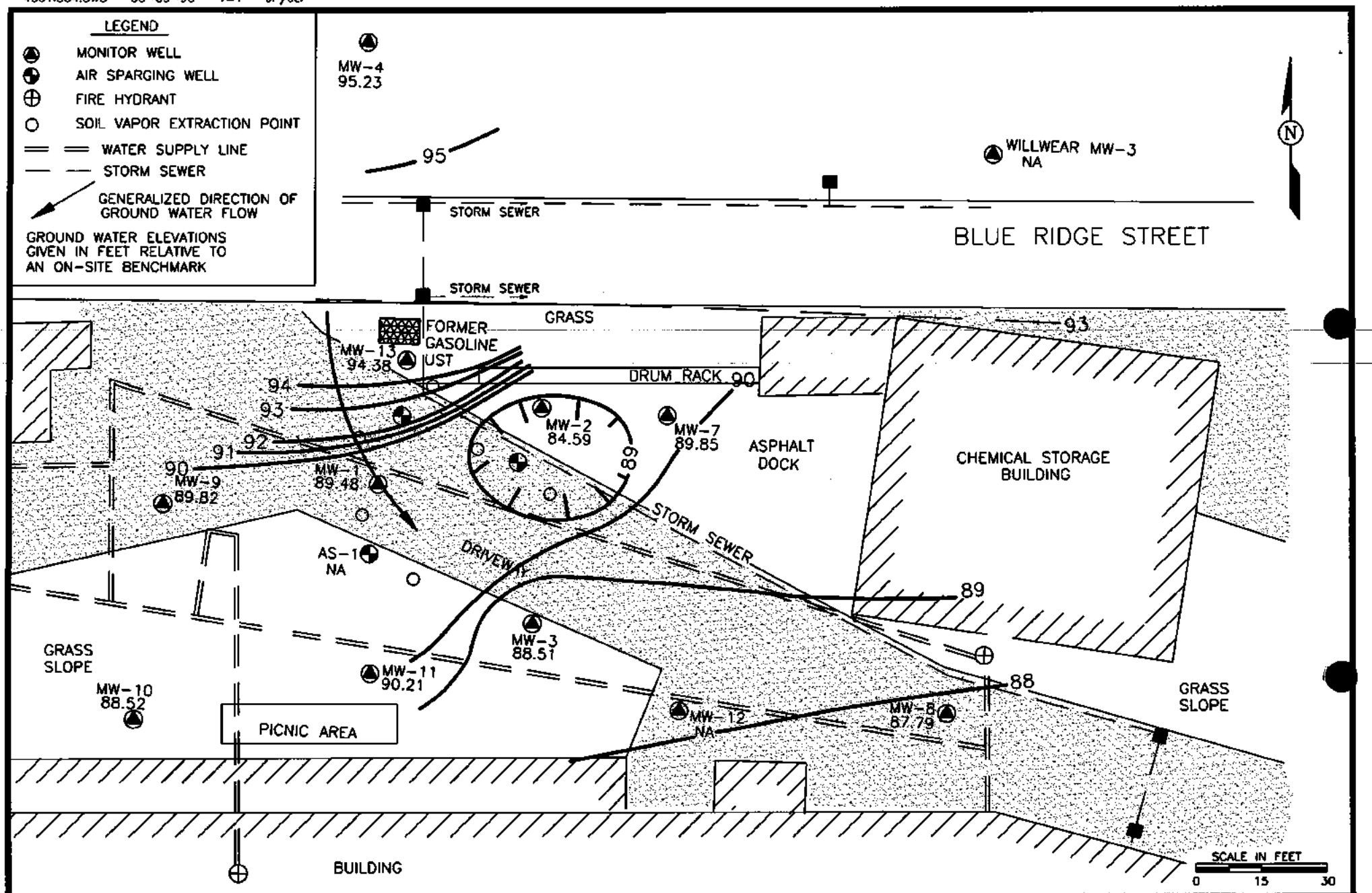
cc: S. Carter - Drexel Heritage
M. Glantz - MASCO

Offices of ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

g:\jerry\drexel2\quarter.rep

4501IS04.DWG 03-09-96 1=1 JP/JLP



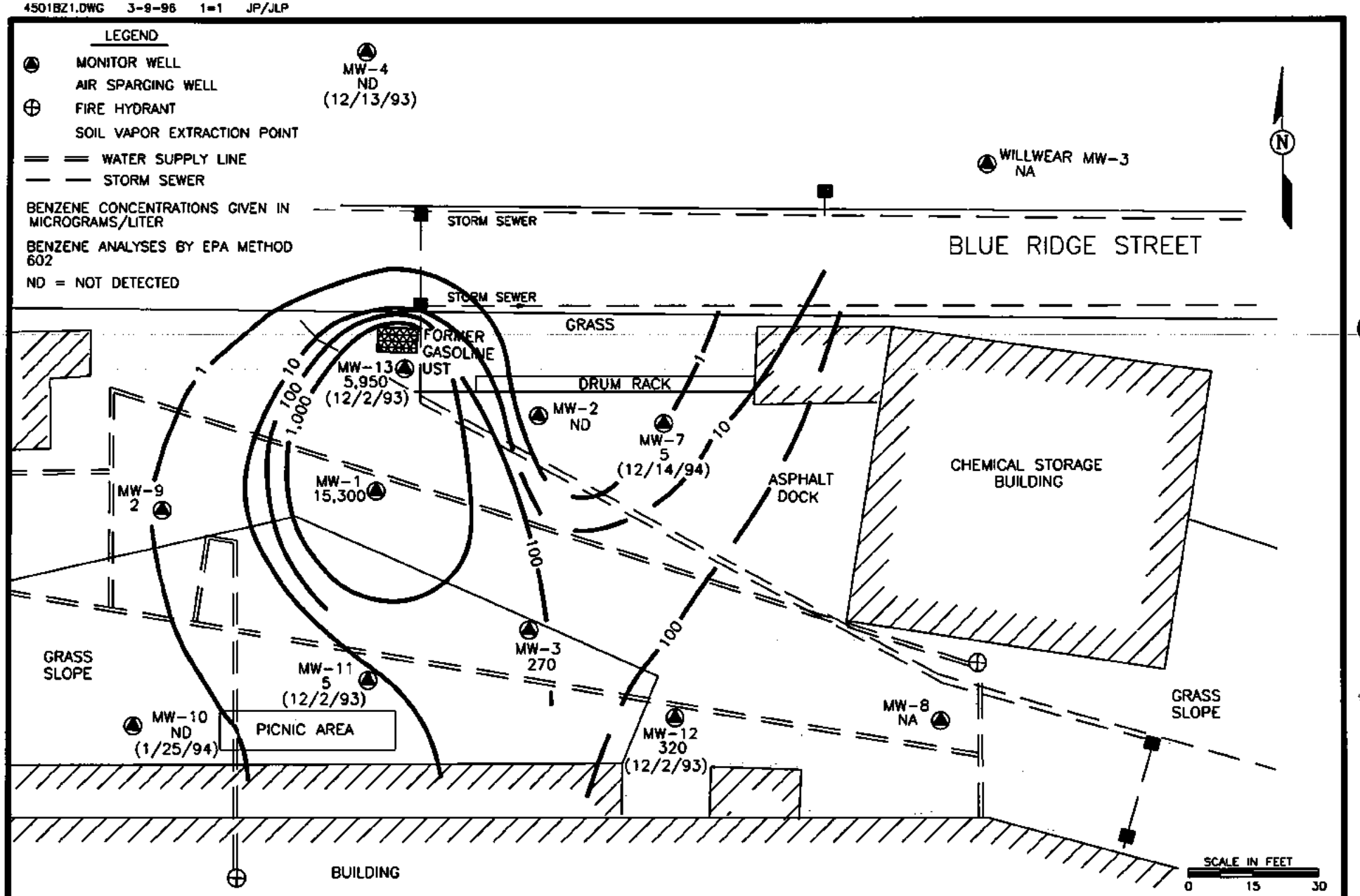
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-3/1/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

4501BZ1.DWG 3-9-96 1=1 JP/JLP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-5/30/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22
12/14/95	8.40	90.20	5.65	91.74	6.13	88.93	12.18	95.45
3/1/96	8.12	90.48	5.40	91.99	7.82	87.24	11.75	95.88
5/30/96	9.12	89.48	12.80	84.59	6.55	88.51	12.40	95.23

	MW-7 95.90		MW-8 89.17				MW-9 99.39	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38
12/14/95	4.20	91.70	1.37	--	--	87.80	9.27	90.12
3/1/96	3.86	92.04	1.16	--	--	88.01	8.97	90.42
5/30/96	6.05	89.85	1.38	--	--	87.79	9.57	89.82

	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25
12/14/95	2.94	88.98	1.20	90.91	2.23	88.17	8.46	92.02
3/1/96	2.76	89.16	1.38	90.73	2.07	88.33	8.08	92.40
5/30/96	3.40	88.52	1.90	90.21	--	--	6.10	94.38

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
	3/1/96	50,800	15,300	23,400	1,800	10,300	5,440
	5/30/96	70,600	15,300	34,600	2,700	18,000	900
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
	3/1/96	1,460	10	60	70	1,320	<100
	5/30/96	23	ND	ND	ND	23	6
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
	3/1/96	101	14	10	51	26	<10
	5/30/96	7,290	270	2,970	720	3,330	100
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
	3/1/96	2	2	ND	ND	ND	ND
	5/30/96	3	2	1	ND	ND	9
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	29	530	200

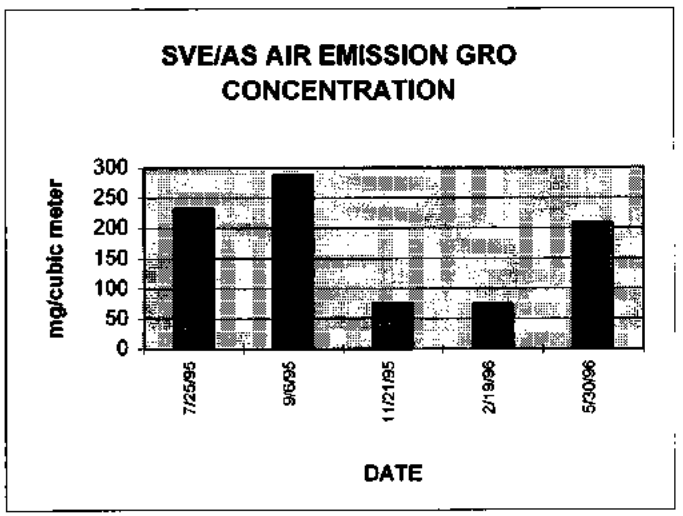
Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
(EV-1)	2/19/96	24	56	8.95	1.52	<0.5	2.36	73.7	17	136	0.05	0.37
	5/30/96	32	80	16.90	5.87	1.66	13.70	210	45	554	0.12	1.52
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46
(EV-2)	2/19/96	24	56	13.10	3.78	0.50	3.60	93.9	24	174	0.07	0.48

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed



SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. (ERM7

7510 DARYEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A021548

Sample ID: MW-1

Date Collected: 5/31/96

Project: 4501

Time Collected: 14:50

Project Name: DREXEL HERITAGE #2

Date Received: 6/3/96

Sampler: JAY LANEY

Time Received: 8:00

State Certifications: DNT

Sample Type: Water

Rule I.D.:

Analyte	Result	Units	Report Limit	Dupe Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	15500	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Toluene	24e00	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Ethylbenzene	2390	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Xylenes, total	18600	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Methyl-t-butylether	900.	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB1/300 Surrogate	103.	50 - 150

Report Approved By: Michael H. Dunn Report Date: 6 3/96

Theodore J. Dvalla, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 0607

7000 CAPITAL BOULEVARD PARK
CHARLOTTE, NC 28226

Lab Number: 96-A0015549

Sample ID: 6W-2

Date Collected: 5/30/96

Project: 4501

Time Collected: 13:30

Project Name: DIESEL RELEASE #2

Date Received: 5/31/96

Submitter: JAY LEHEY

Time Received: 2:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Dupn Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	ND	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Toluene	ND	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Ethylbenzene	ND	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Xylenes, total	23.0	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Methyl-t-butylether	5.0	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BTE1/602 Surrogate	101.	50 - 150

Report Approved By: Michael H. Dunn Report Date: 6/ 2/96

Theodore J. Dueitt, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6007

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A031550

Sample ID: MW-3

Date Collected: 5/30/96

Project: 4001

Time Collected: 14:45

Project Name: DIESEL HERITAGE #2

Date Received: 5/31/96

Sampler: JAY LANEY

Time Received: 8:30

State Certifications: 337

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	270.	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Toluene	2970	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Ethylbenzene	720.	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Xylenes, total	8330	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Methyl-t-butylether	100.	ug/l	10.0	1.0	10	6/ 2/96	18:28	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB1/GRO Surrogate	99.	50 - 150

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7300 DARIEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A381550

Sample ID: MW-3

Date Collected: 5/30/96

Project: 6207

Time Collected: 14:45

Project Name: DARIEL HERITAGE #2

Date Received: 5/31/96

Sampler: JAY LANDY

Time Received: 5:30

State Certification: 387

Sample Type: Water

Site I.D.:

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range

Report Approved By: Michael H. Dunn Report Date: 6/ 3/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny R. Hale, M.S.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

EMS - SOUTH-EAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Numbers: 96-A0811551

Sample ID: MW-9

Date Collected: 5/30/96

Project: 6701

Time Collected: 15:25

Project Name: DREXEL HERITAGE #8

Date Received: 5/31/96

Sampler: JIM LANZY

Time Received: 8:30

State Certification: SCP

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	2.0	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Toluene	1.0	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Ethylbenzene	ND	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Xylenes, Total	ND	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Methyl-t-butylether	9.0	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB/602 Surrogate	99.	50 - 150

Report Approved By: Michael H. Quan Report Date: 6/ 3/96

Theodore J. Duello, Ph.D.
Michael H. Quan, M.S.
Danny B. Hale, M.C.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7500 CAPWELL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A03[illegible]

Sample ID: TRIP BLANK

Date Collected:

Project: 4401

Time Collected:

Project Name: DRIVAL HERITAGE #2

Date Received: 5/31/96

Sampler: JAY LANZY

Time Received: 8:30

State Certifications: SCT

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408
Toluene	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408
Ethylbenzene	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408
Xylenes, total	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB/600 Surrogate	94.	50 - 150

Report Approved By: Michael H. Dunn Report Date: 6/ 3/96

Theodore J. Quelle, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ERM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

CHAIN OF CUSTODY

Project Number: 4501 | Sampler: JAYC LANEY, Ben Hooper

Project Name: DREXEL HERITAGE # 2 | SAE Quote:

Lab No.	Field Number	Date	Time	Matrix	Grab	Comp	Bottles	Analysis Requested: BTEX	MTBE
-A031548	MW-1	5-30-96	14:50	H_2O	X		2	X	X
-A031549	MW-2	5-30-96	15:20	H_2O	X		2	X	X
-A031550	MW-3	5-30-96	14:45	H_2O	X		2	X	X
-A031551	MW-4	5-30-96	15:25	H_2O	X		2	X	X
A031552	TRIP	5-30-96					1		

Relinquished by:	D/T	Received by:	D/T	Relinquished by:	D/T	Received by:	D/T
[signature]	5-30-96 1600						
Relinquished by:	D/T	Received by:	D/T	Relinquished by:	D/T	Received by LAB [signature]	D/T 5/31/96 0830

Cooler Temperature When Recevied:

Laboratory Project Number: 45185

Cooler Seals Intact?

Fed-X Air Bill Number:

SPECIAL INSTRUCTIONS:

COPY 1

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

SRM - SOUTHCRAFT, INC. 6207

7800 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-4031566

Sample ID: SVE/AS-1

Date Collected: 5/30/96

Project: 4501

Time Collected: 13:40

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 5/31/96

Sampler: JAY LANEY

Time Received: 9:30

Air Certificate #: 510

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	5.87	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
Benzene	1e.9	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
Xylene	10.7	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
Ethyl benzene	1.66	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
GPO	210.	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18

Report Approved by: Michael H. Dunn Report Date: 6. 5/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Kenny E. Hale, M.S.

COPY 3

SPECIALIZED ASSAY
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

Specialized Assays: (800) 765-0980

REFERRING CLIENT

Account: 6207
ERM - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8416 Fax: - -

NG CONTROL NUMBER (FOR LAB USE ONLY) 45195

PROJECT # 4501

P.O. #

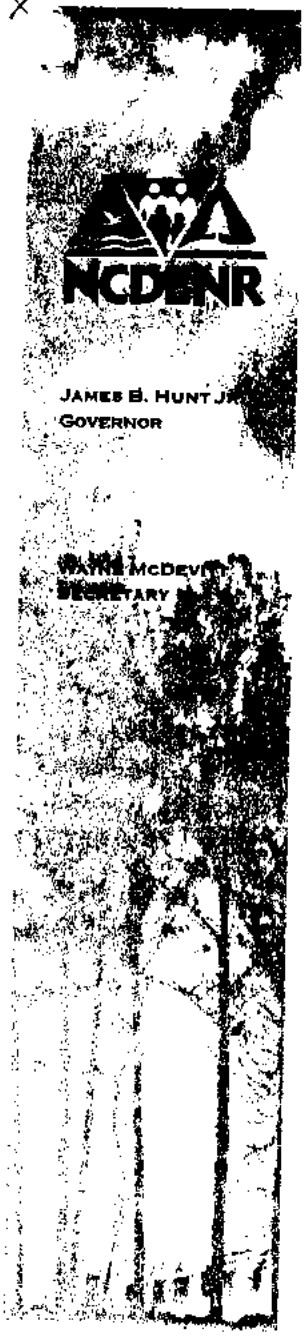
ERS (Signature-Please Print) J.C. Lantz

PROJECT NAME Drexel Heritage Plant #2

R LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
0031586	SVE/AS-1	5-30-96	1300		X	1	BTEX + GRO

ished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
J.C. Lantz	5-30-96 14:00			5/31/96 0830
ished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
ished by: (Signature)	Date / Time	Received by: (Signature)	AIR SAMPLE	
ished by: (Signature)	Date / Time	Received by: (Signature)		

or further assistance in completing the chain of custody form please refer to the instructions found on the opposite side



NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
ASHEVILLE REGIONAL OFFICE

DIVISION OF WATER QUALITY

April 21, 1998

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Z 372 625 762

Mr. Stanley Carter
Drexel Heritage Furnishings
211 East Fleming Drive
Morganton, NC 28655

RE: Notice of No Further Action
15A NCAC 2L .0115(h)
RISK-BASED ASSESSMENT AND CORRECTIVE ACTION FOR PETROLEUM UNDERGROUND STORAGE TANKS
Drexel Heritage Plant #2
361 Blue Ridge Street, Marion
McDowell County, North Carolina
Incident No. 11091
Low Risk Classification

Dear Mr. Carter :

April 3, 1998, the Division of Water Quality (DWQ), Asheville Regional Office received a Groundwater Monitoring Report with Site Closure Request for the above-referenced site. A review of the report shows that soil contamination does not exceed the industrial/commercial maximum soil contaminant concentrations established in 15A NCAC 2L .0115(m). A review of the Groundwater Monitoring Report shows that contaminated groundwater does not exceed gross contamination levels that were established in 15A NCAC 2L .0115(g).

Based on information provided to date, the DWQ determines that no further action is required for this incident. This determination is conditional pending completion of the public notice specified below. Once proper public notice has been given, this determination will apply unless the DWQ later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, **is not suitable** for use as a water supply.

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the DWQ of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the DWQ to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you must comply with the public notice requirements of 15A NCAC 2L .0115(k) as specified below. **If public notice is not provided as required, this no further action determination will be deemed invalid.** Within **30 days** of receipt of this no further action notice, you must provide a copy of this notice to the following persons:

- local health director;
- chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- all property owners and occupants within or contiguous to the area containing contamination; and
- all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action notice must be sent to the persons listed above by certified mail. If it is impractical to provide notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this notice in a prominent place where the occupants are most likely to see it.

Within **60 days** of receiving this no further action notice, you must provide the DWQ, Asheville Regional Office with proof of receipt of the copy of the notice or of refusal by the addressee to accept delivery of the copy of the notice. If a copy of the notice is posted, you must provide the DWQ with a description of the manner in which the notice was posted.

Interested parties may examine the Groundwater Monitoring Report with Site Closure Request by contacting Mr. Jerry Prosser with ERM, Southeast at (704) 541-8345. In addition, the DWQ, Asheville Regional Office has the Groundwater Monitoring Report with Site Closure Request along with other site information on file and available for public review. Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Site Closure Request may be submitted to the regional office.

Asheville Regional Office
59 Woodfin Place, Asheville NC 28801
(704) 251-6208

Please be advised that you must close any monitoring wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113.

Should you have any questions concerning this notice, please contact Mike Streeter at (704) 251-6208.

Sincerely,

Donald R. Link

Donald R. Link
Regional Groundwater Supervisor

Attachments: 15A NCAC 2C .0113
Well Abandonment Form

cc: Burrie Boshoff

NFA-LOV

PS Form 3800, April 1995

Z 372 625 762

North Carolina Department of Environment and Natural Resources
59 Woodfin Place, Asheville, NC 28801

GW

STANLEY CARTER
DREXEL HERITAGE FURNISHINGS
211 EAST FLEMING DRIVE
MORGANTON, NC 28655

4/22/98

SENDER:
Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

4a. Article Number
Z 372 625 762

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
4-24-98

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
X

Is your RETURN

PS Form 3811, December 1994 Domestic Return Receipt

102595-97-B-0179

Thank You for using Return

MC 11091
MES

RECEIVED
SEP - 3 1998
WET SECTION
ASHEVILLE REGIONAL OFFICE

Environmental
Resources
Management

7300 Carmel Executive Park
Suite 200
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

August 31, 1998

Mr.Mike Streeter
NCDEHNR
Division of Waste Management
Underground Storage Tank Division
59 Woodfin Place
Asheville, North Carolina 28801

ERM

Re: Monitor Well Abandonment Records
Drexel Heritage Furnishings, Inc. - Plant #2
361 Blue Ridge Street
Marion, North Carolina

Dear Mike:

On behalf of Drexel Heritage Furnishings, Inc., Environmental Resources Management, Inc. is submitting a monitor well abandonment record for 14 monitor wells, 6 soil vapor extraction wells, and 3 air sparge wells that were abandoned on August 28, 1998 at the above referenced site.

Please contact me if you have any questions.

Sincerely,

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

Jay C. Lanzy
Staff Geologist

Cc: Stanley Carter
Drexel Heritage Furnishings, Inc.

jp13:ex4953.dem

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-1

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: MARION County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings PLANT #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 18 DIAMETER: 2"

7. CASING REMOVED:

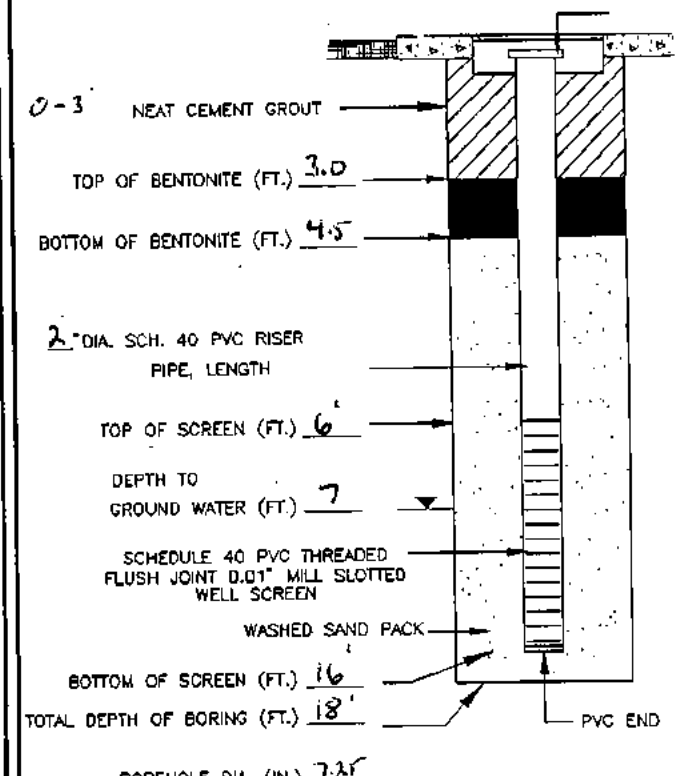
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

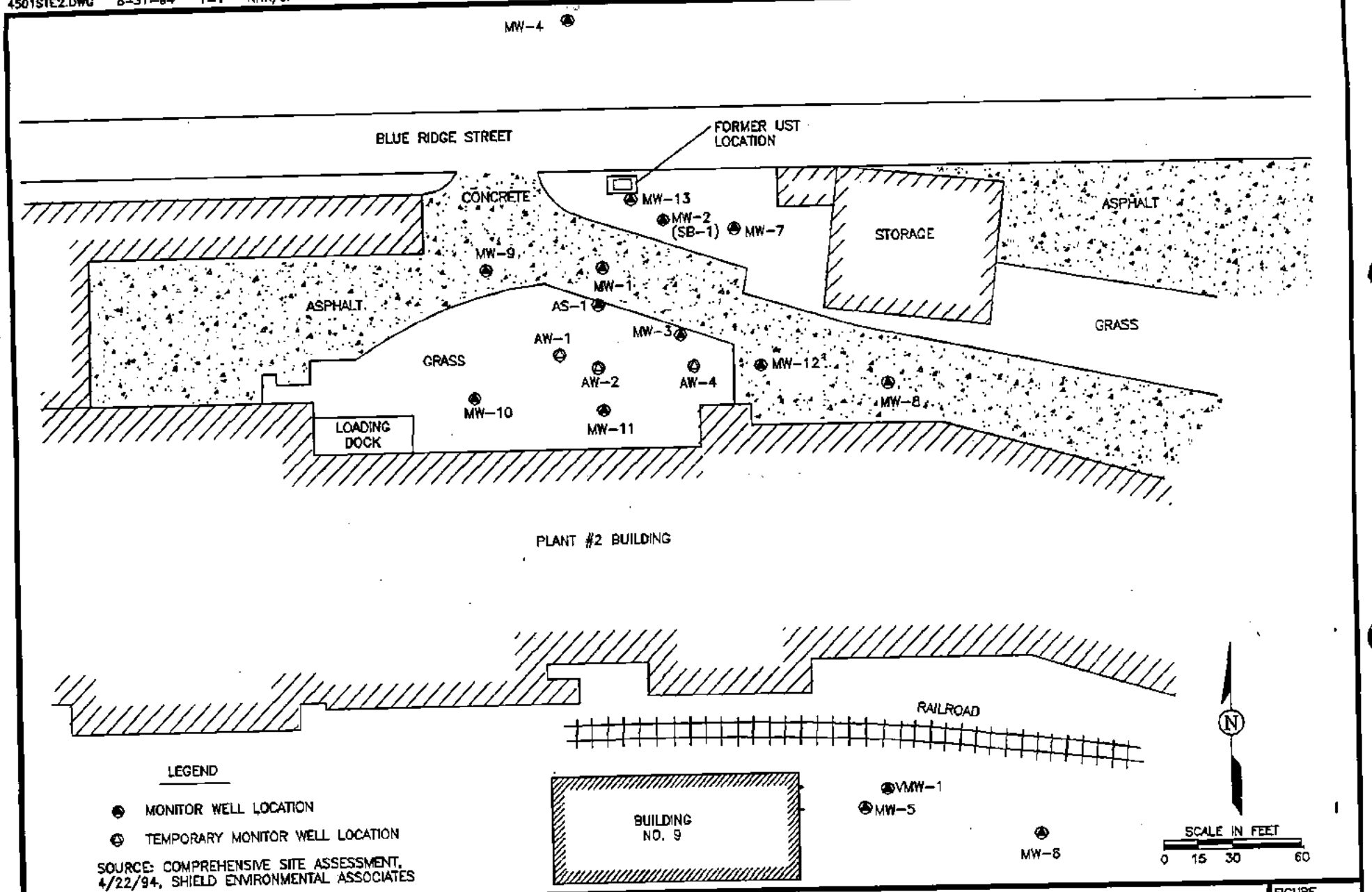
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-2

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
35082-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 17.5 DIAMETER: 2"

7. CASING REMOVED:

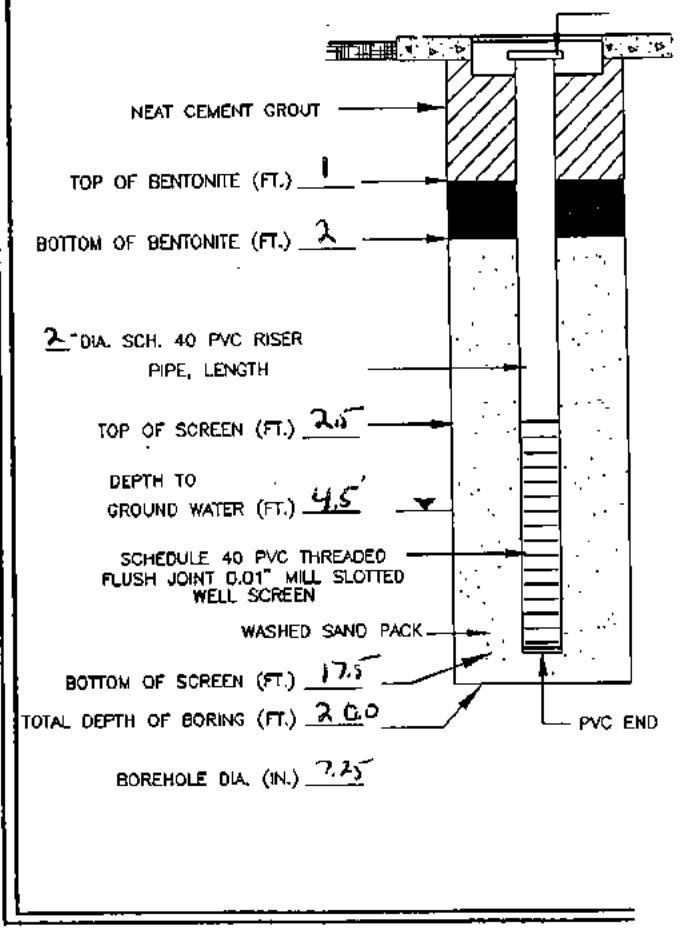
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

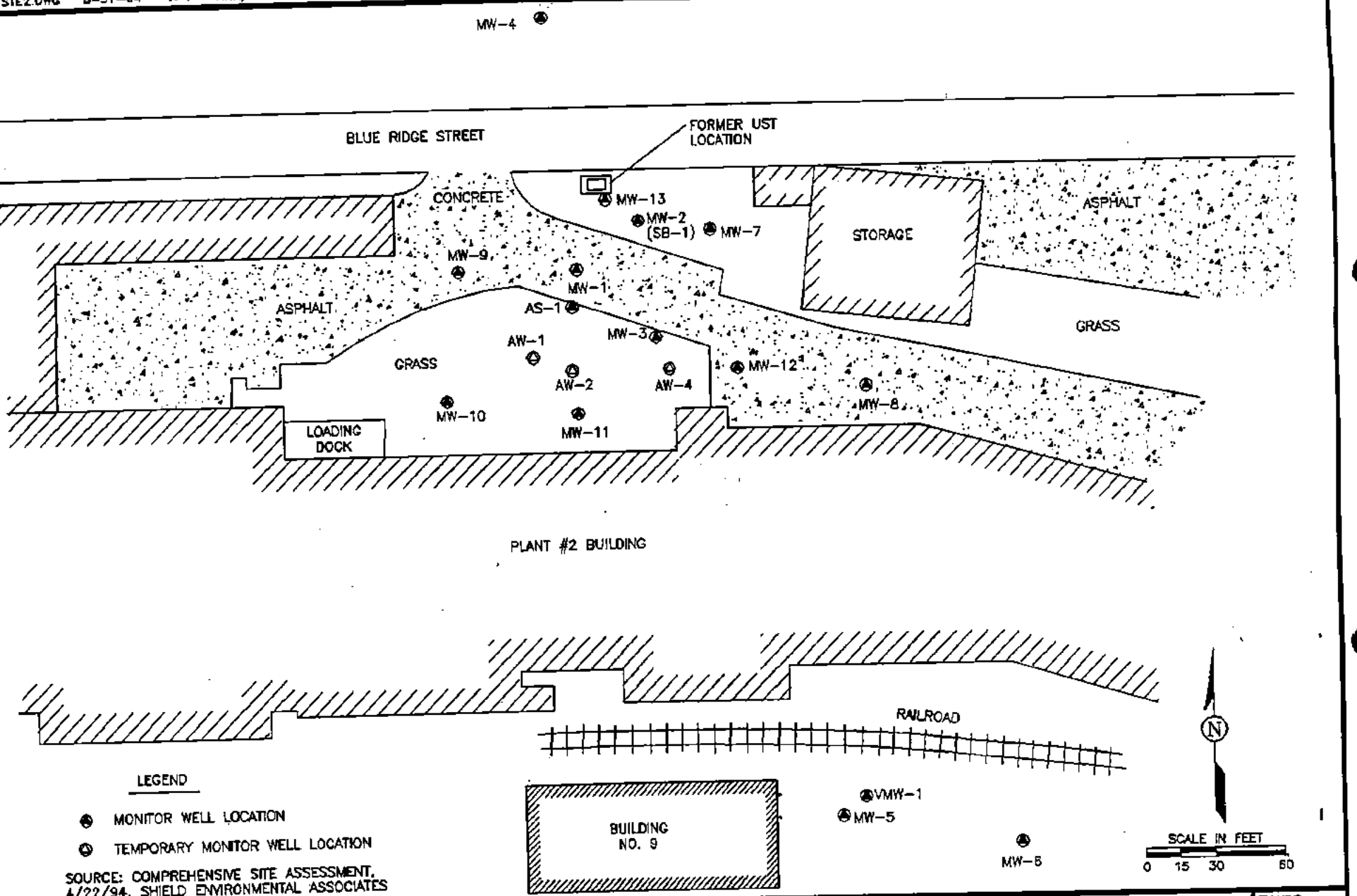
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA

ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-3

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: MARION County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 12' DIAMETER: 2"

7. CASING REMOVED:

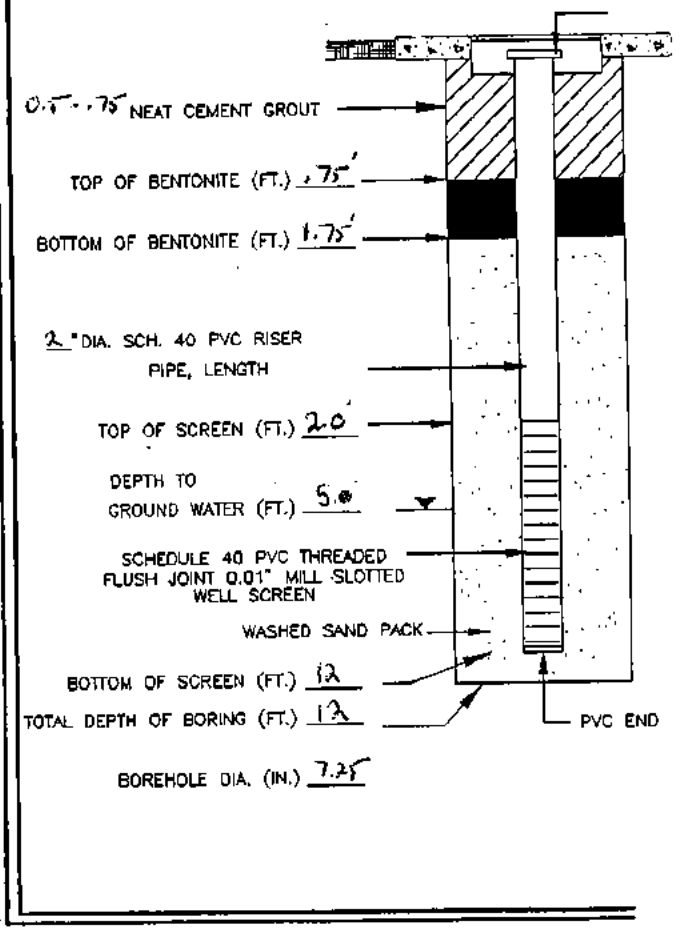
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	3/4	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

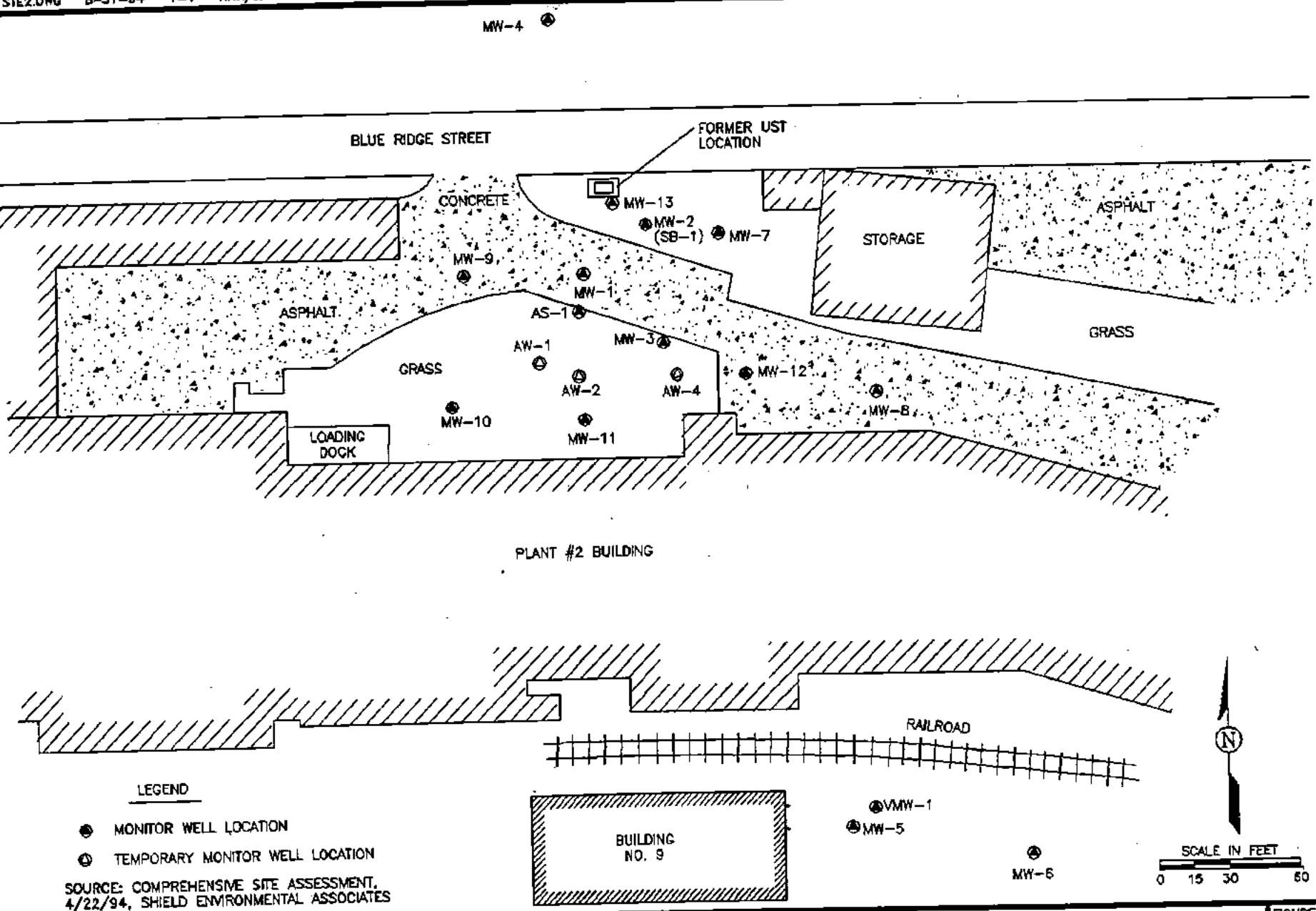
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-4

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 22' DIAMETER: 2"

7. CASING REMOVED:

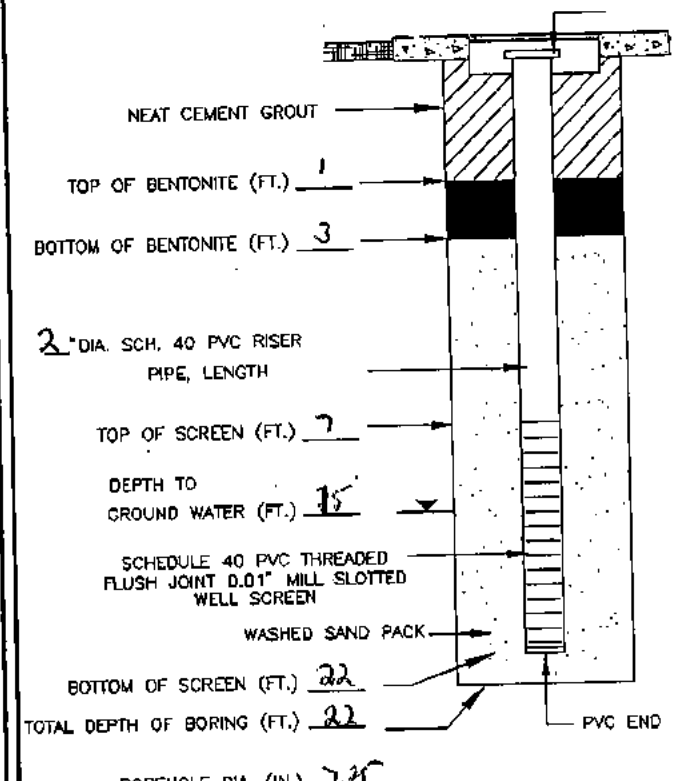
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1.5	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

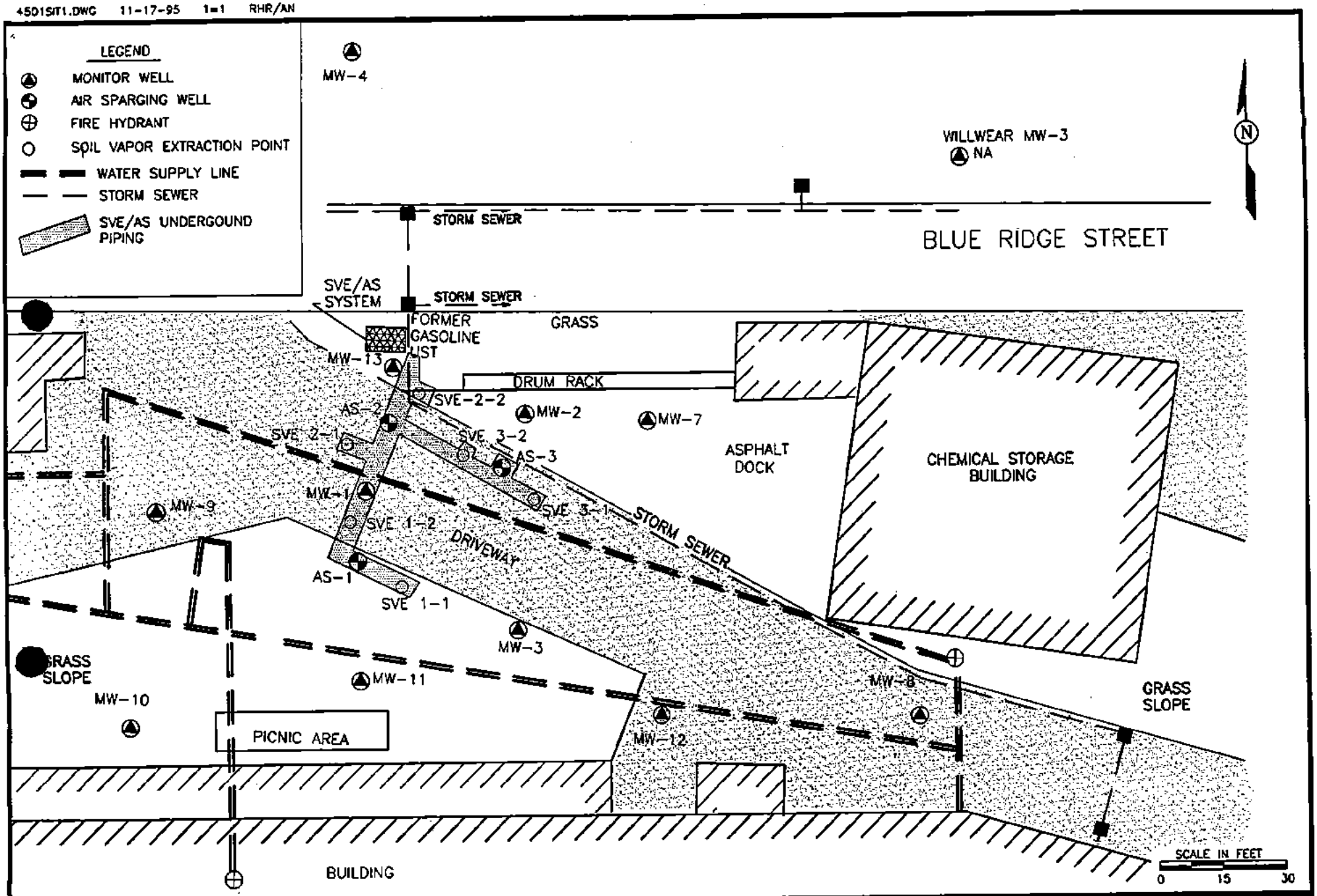
Signature of Contractor or Agent Jay Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-5

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3708.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 19 DIAMETER: 2"

7. CASING REMOVED:

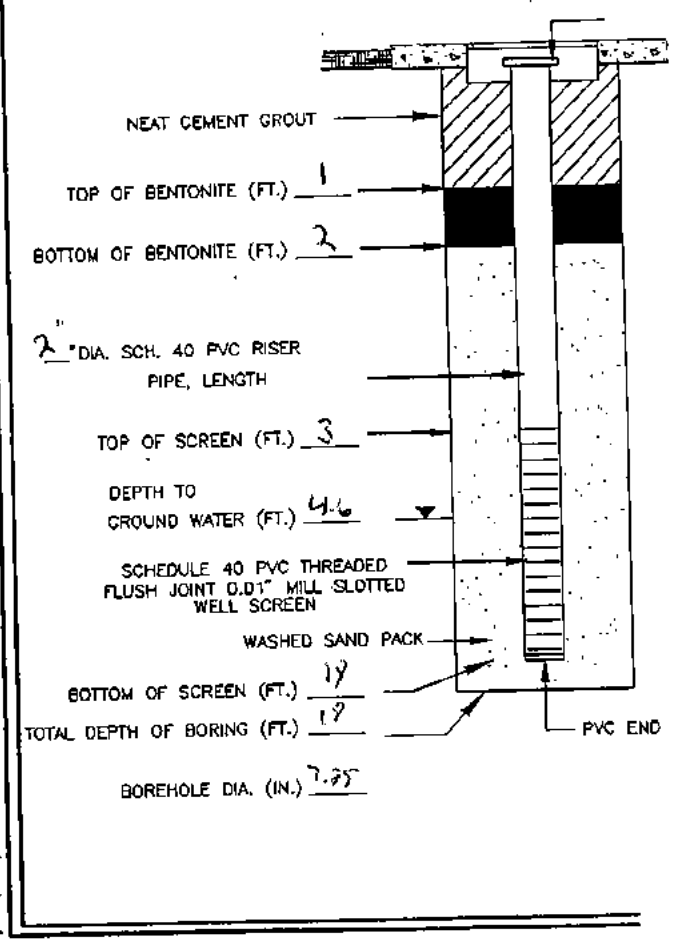
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement	Sand cement
bags of cement 1	bags of cement
gals. of water .5	yds. of sand
	gals. of water

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

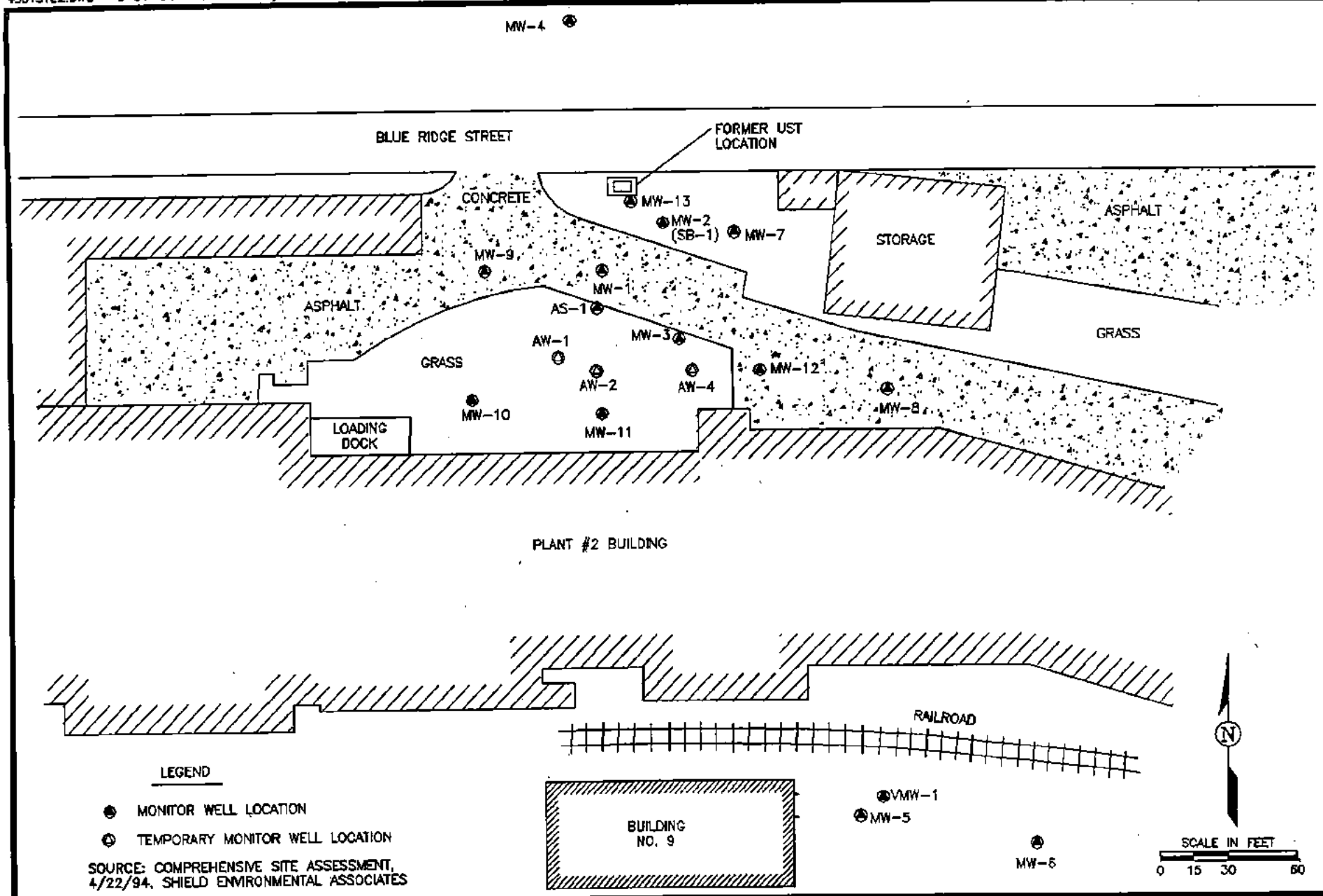
Signature of Contractor or Agent Jay C Stamp Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-6

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 18 DIAMETER: 2"

7. CASING REMOVED:

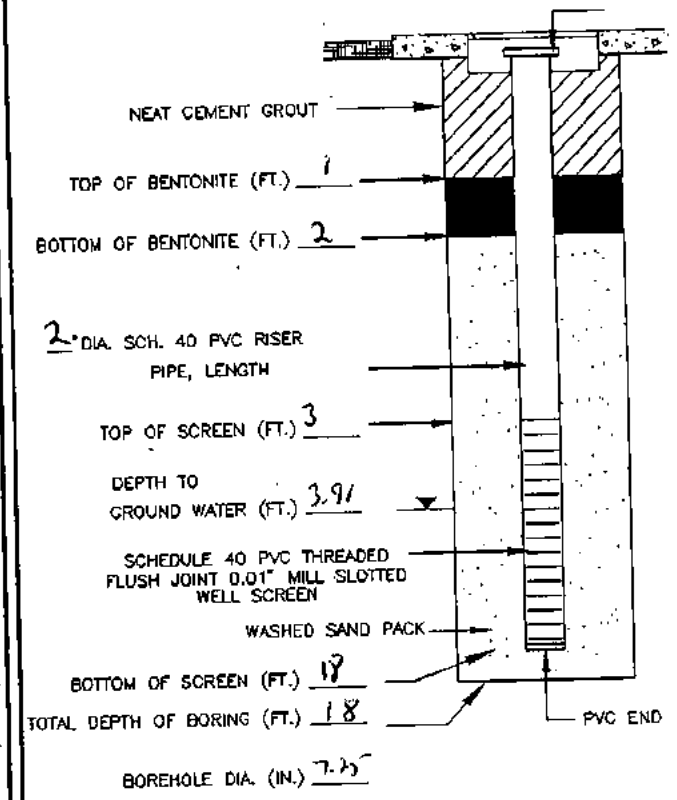
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

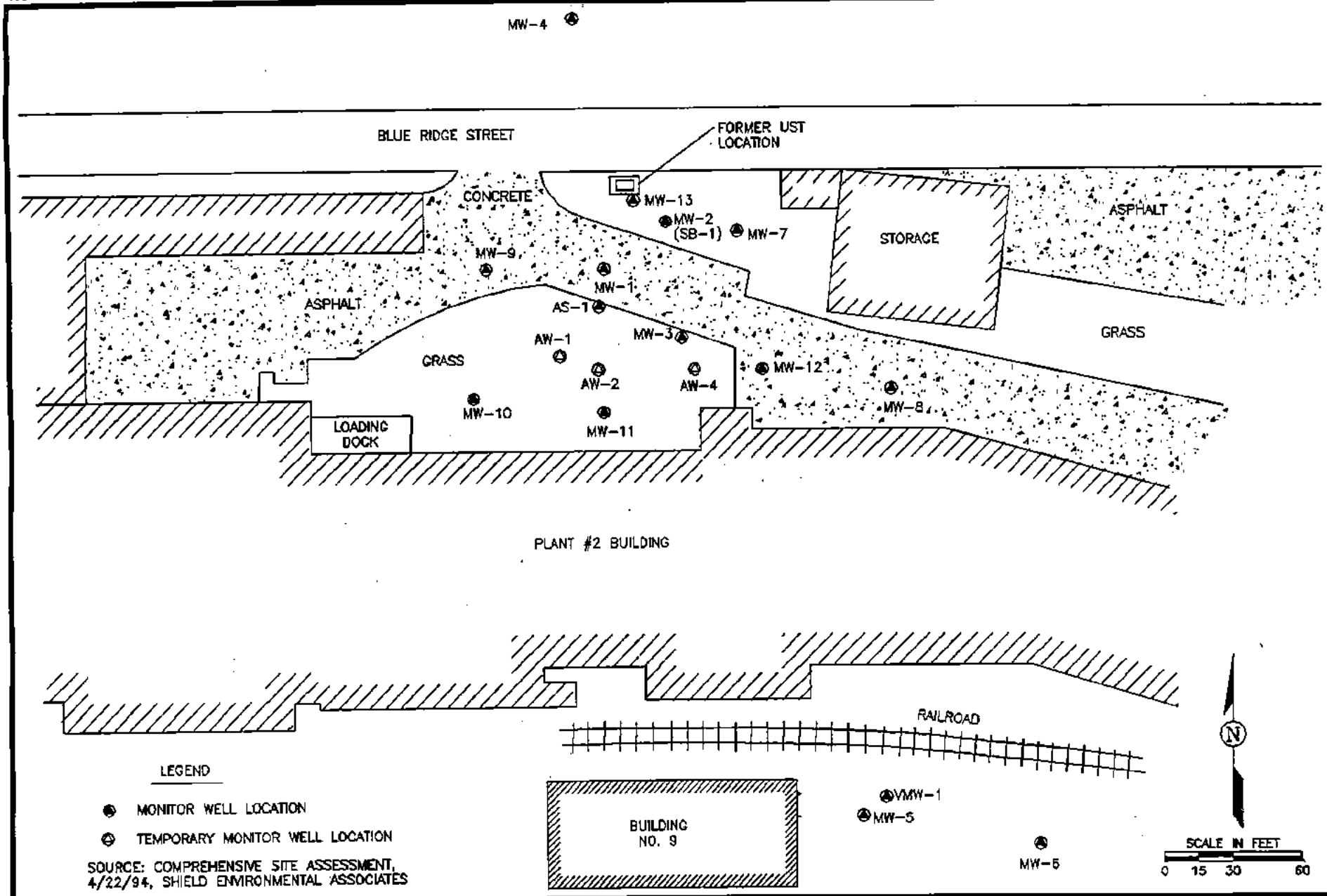
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-7

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
35082-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 18 DIAMETER: 2"

7. CASING REMOVED:

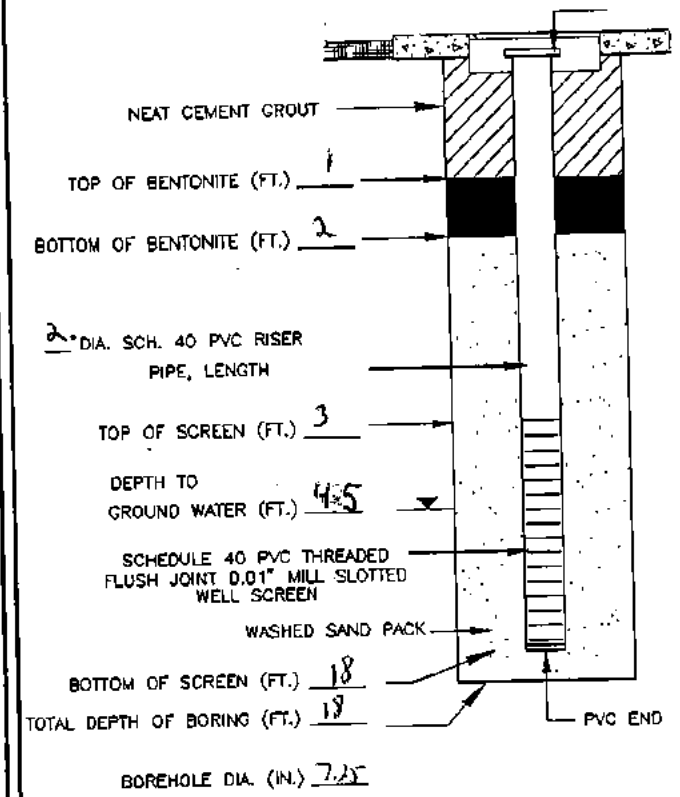
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement	Sand cement
bags of cement 1	bags of cement -
gals. of water .5	yds. of sand -
	gals. of water -

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

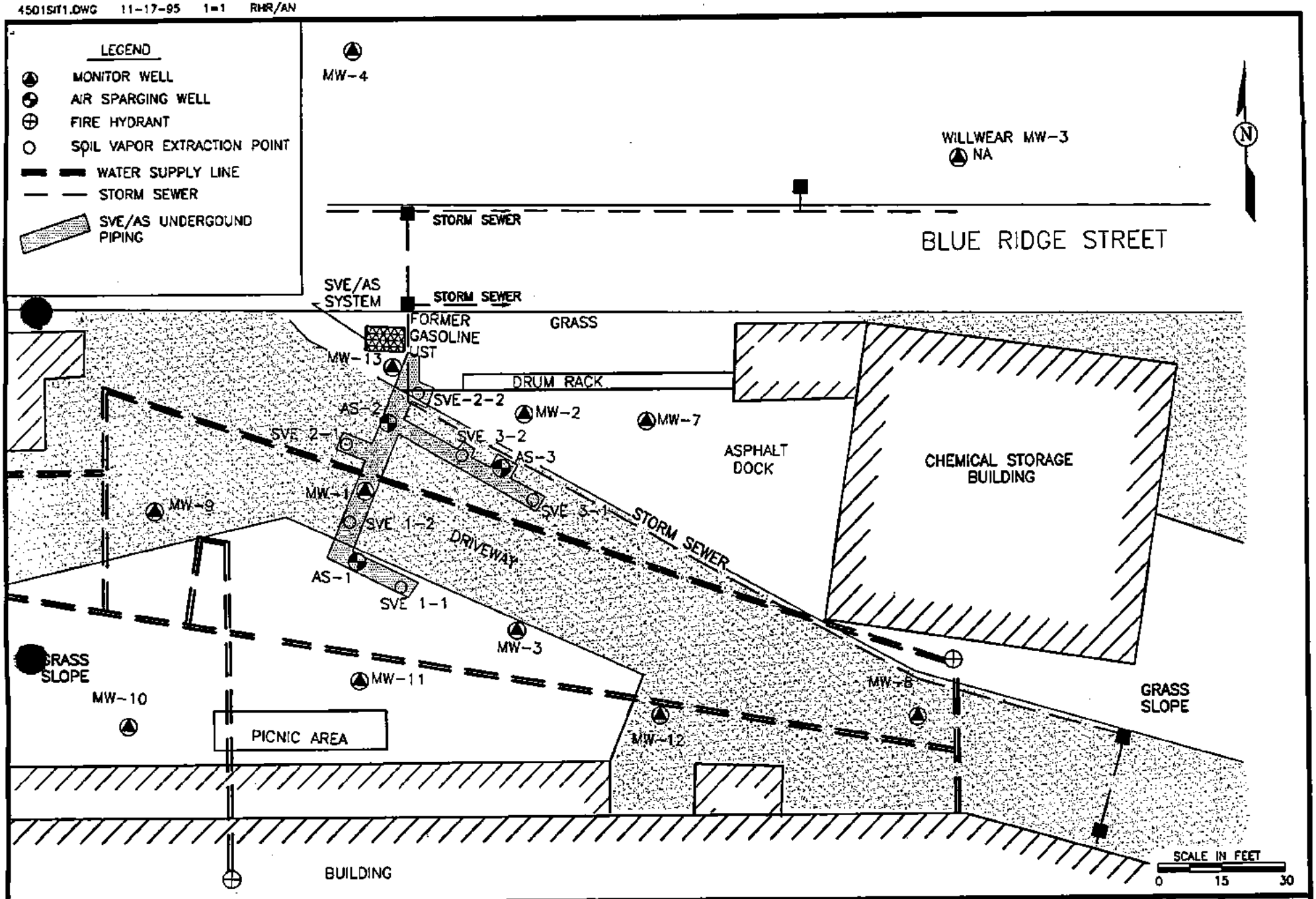
Signature of Contractor or Agent Jay C Lampe Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-8

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 12 DIAMETER: 2"

7. CASING REMOVED:

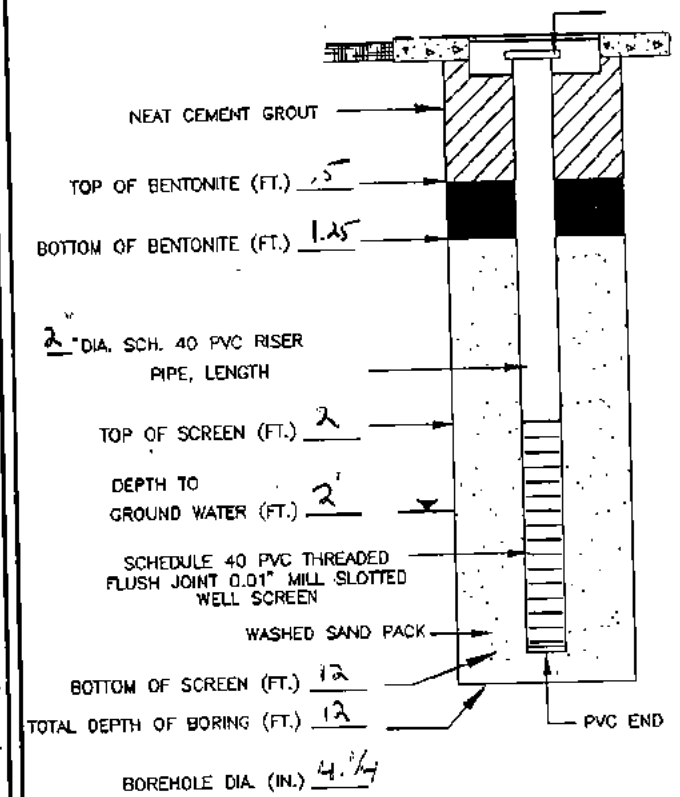
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.5	bags of cement	-
gals. of water	.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

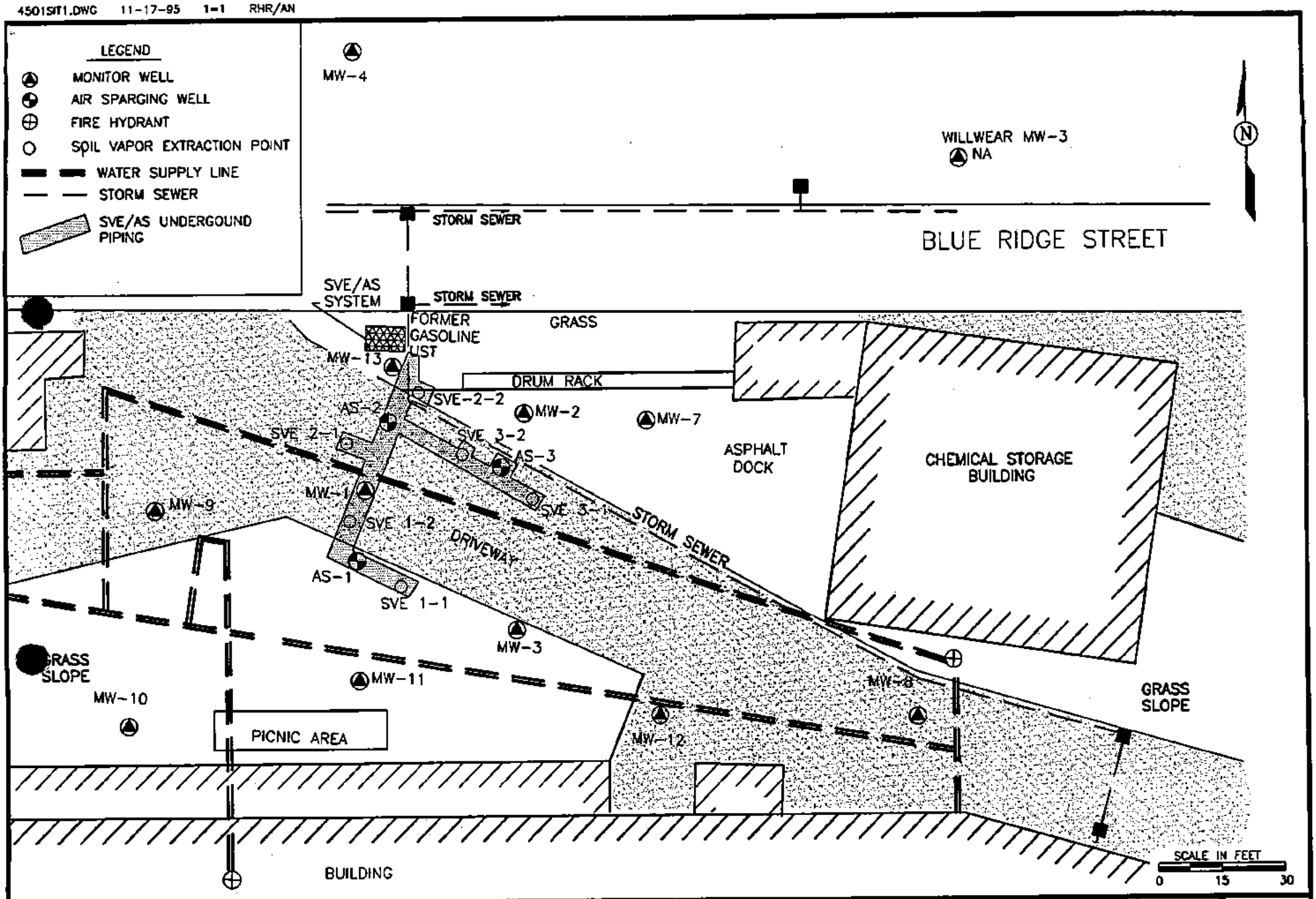
Signature of Contractor or Agent Jay C. Long Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-9

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 15 DIAMETER: 2"

7. CASING REMOVED:

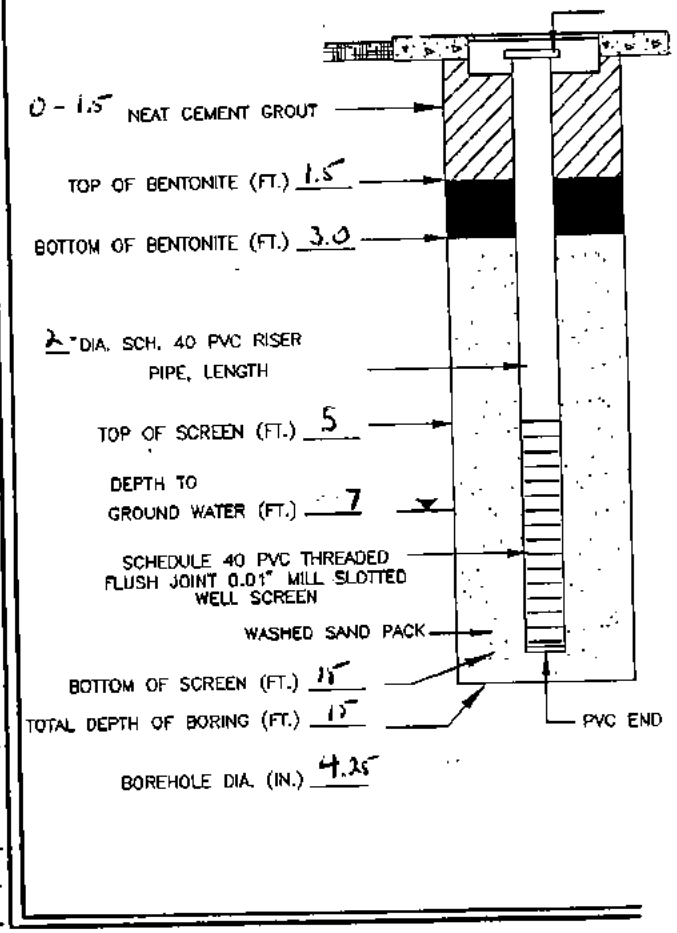
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

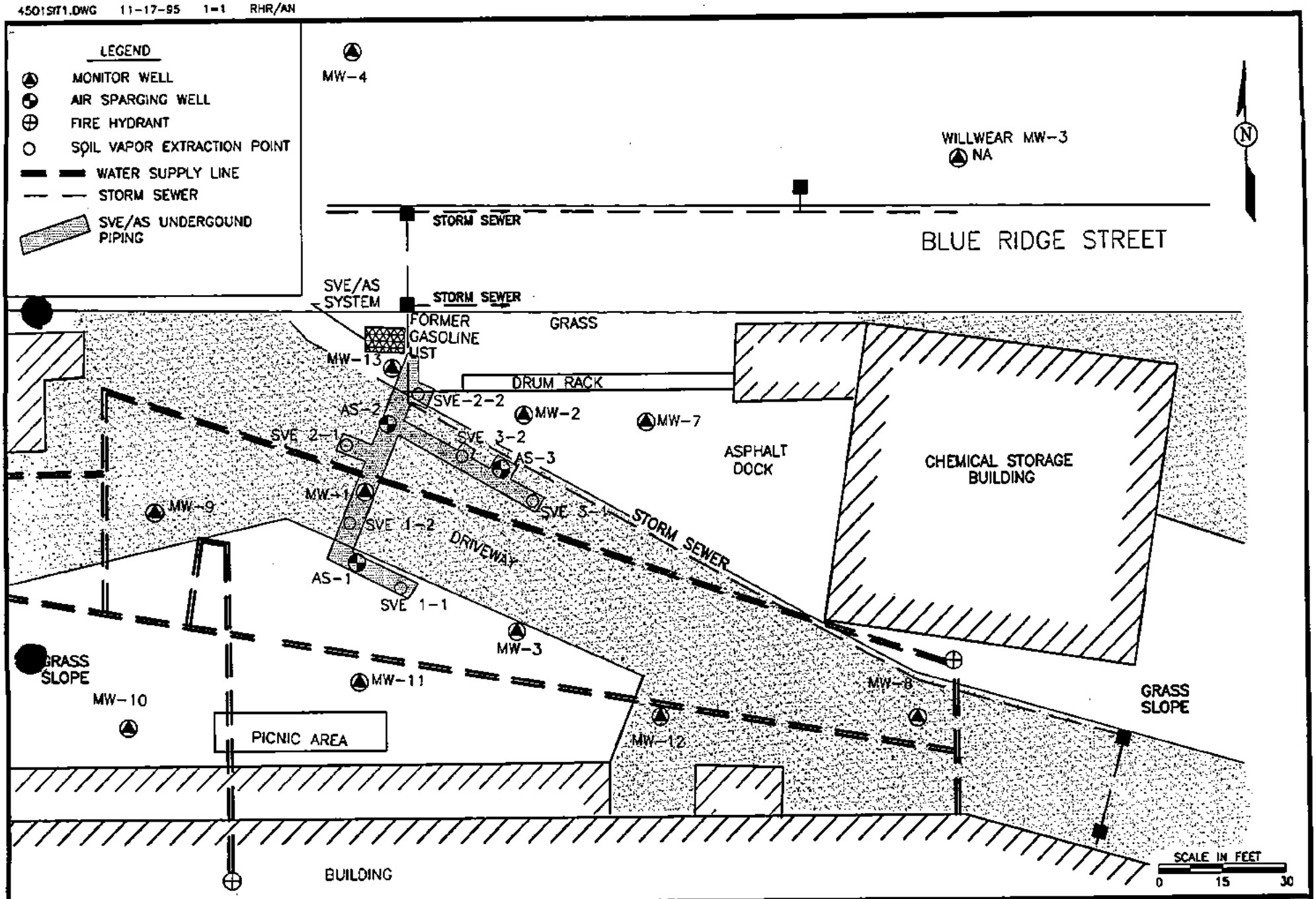
Signature of Contractor or Agent [signature] Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501ST1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-10

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 7 DIAMETER: 2"

7. CASING REMOVED:

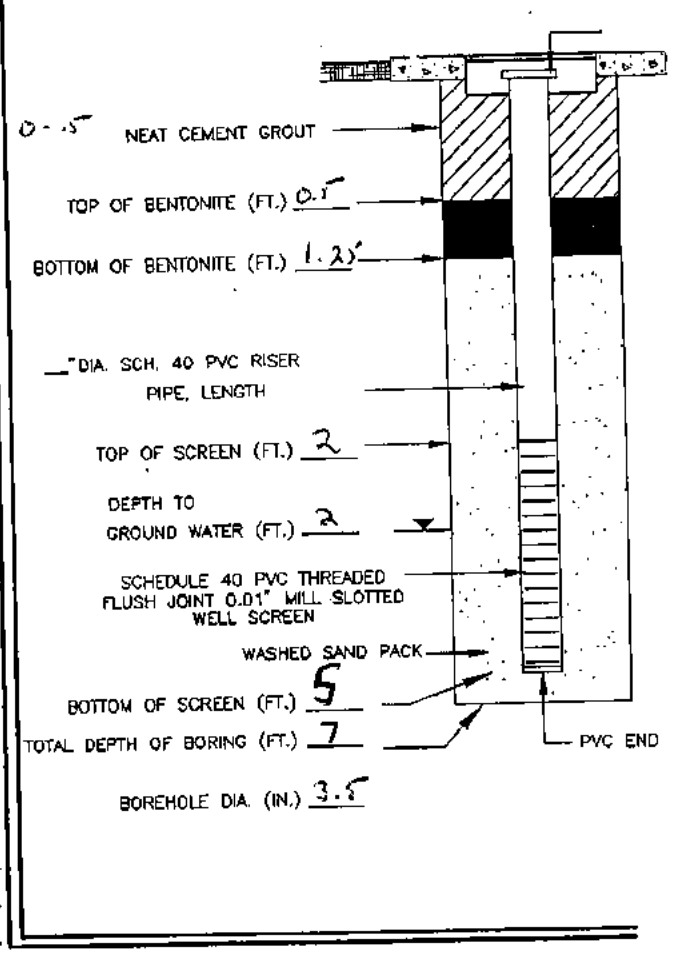
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.5	bags of cement	-
gals. of water	.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

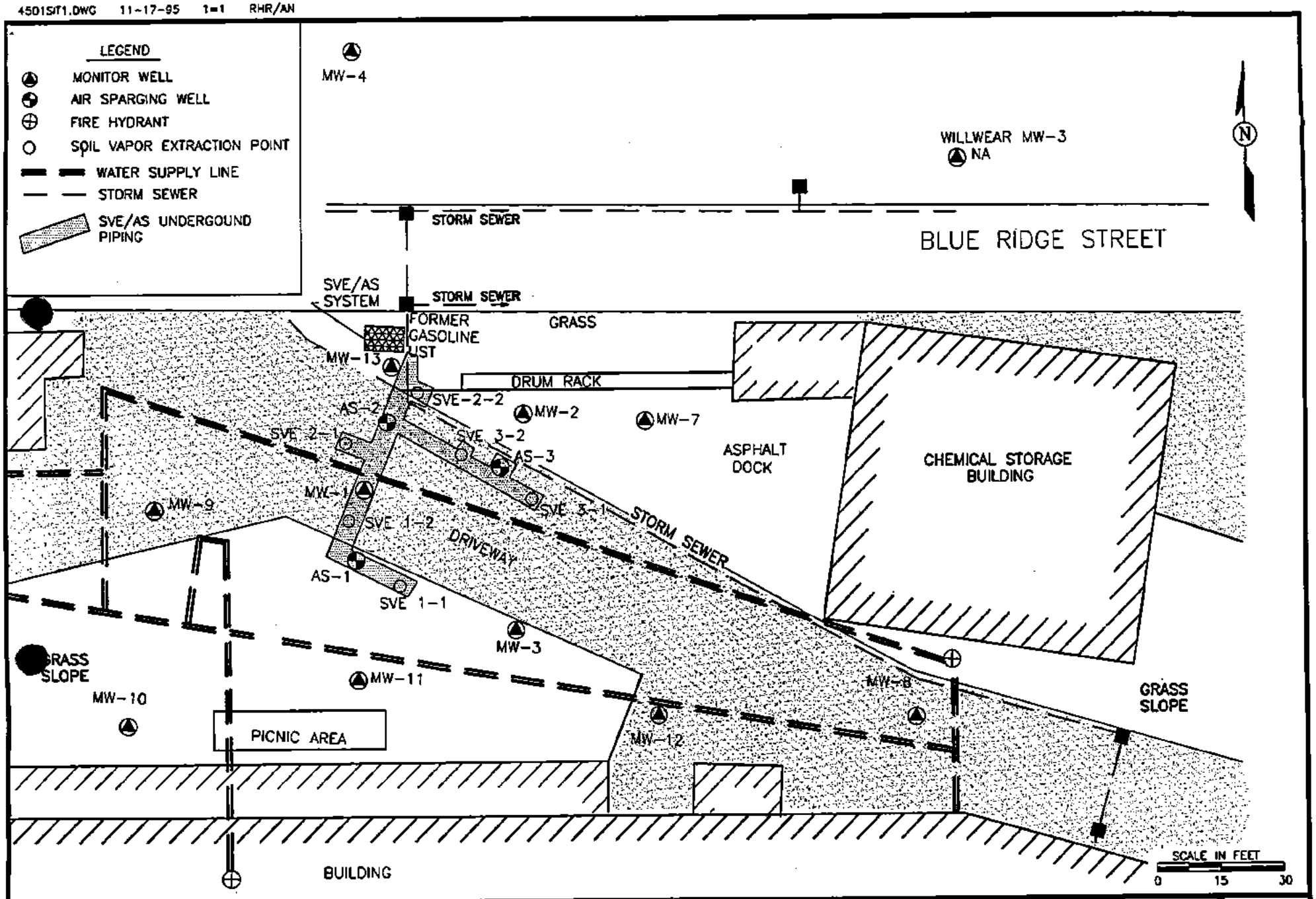
Signature of Contractor or Agent [signature] Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-11

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitors DATE: 8-28-98

6. TOTAL DEPTH: 2.5 DIAMETER: 2"

7. CASING REMOVED:

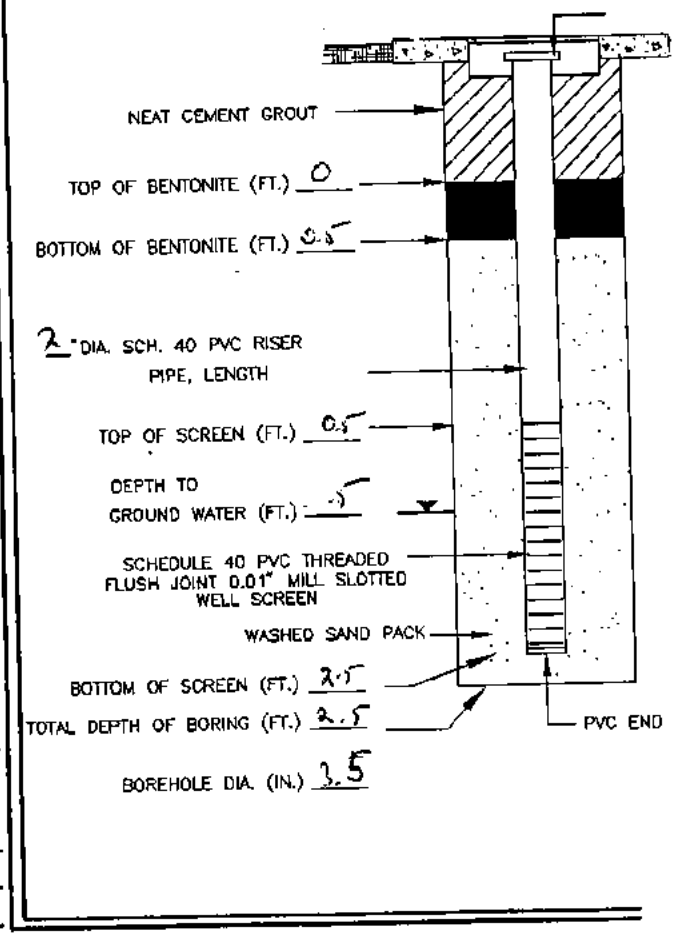
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.25	bags of cement	-
gals. of water	.10	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

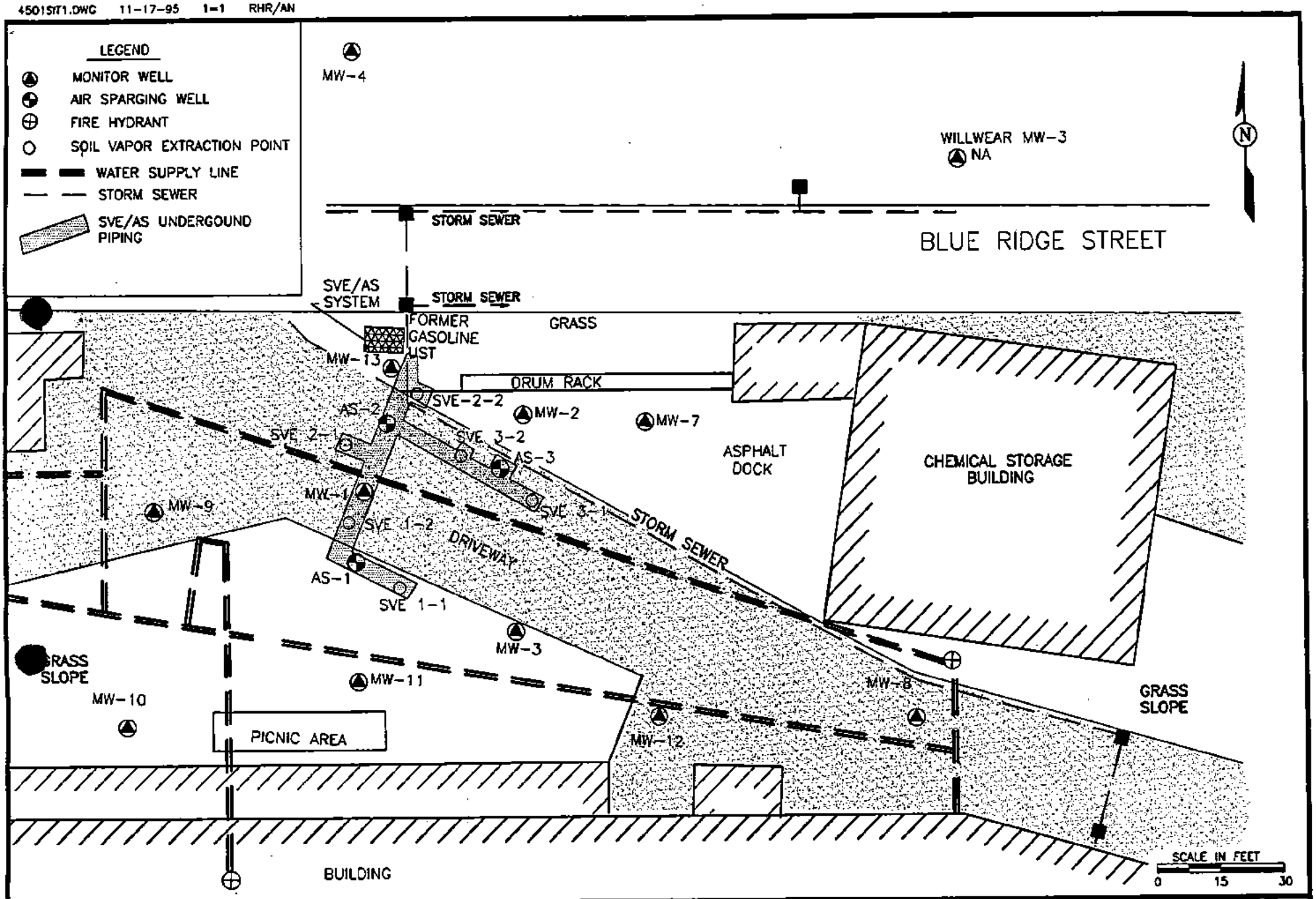
Signature of Contractor or Agent Jay C. Lamm Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-12

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: MARION County McDowell
(Road, Community, Subdivision, Lot No.)
3508.F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 5 DIAMETER: 2"

7. CASING REMOVED:

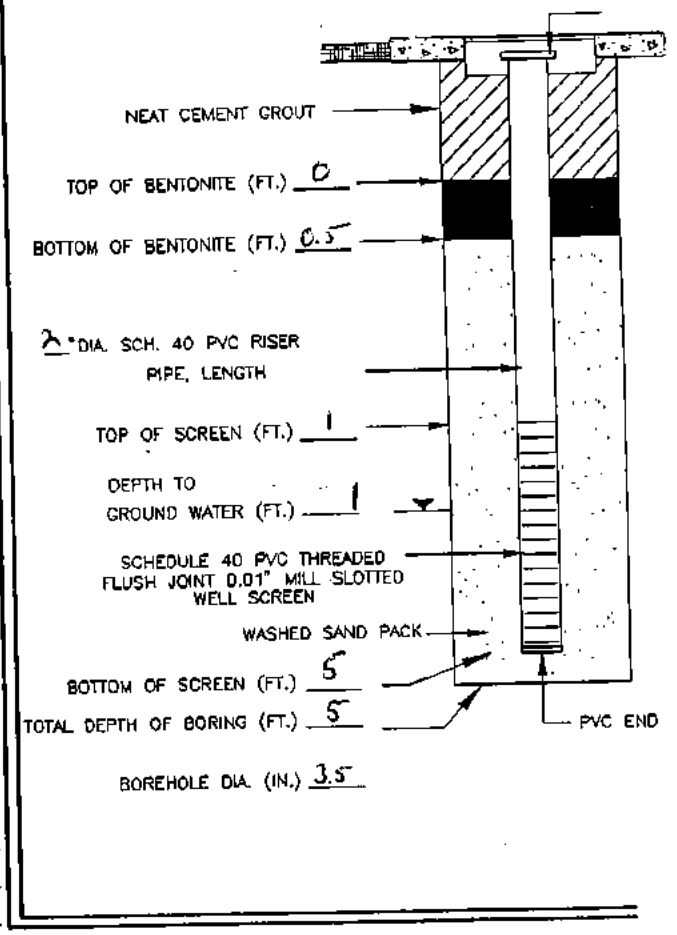
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.5	bags of cement	-
gals. of water	.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Pressure Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

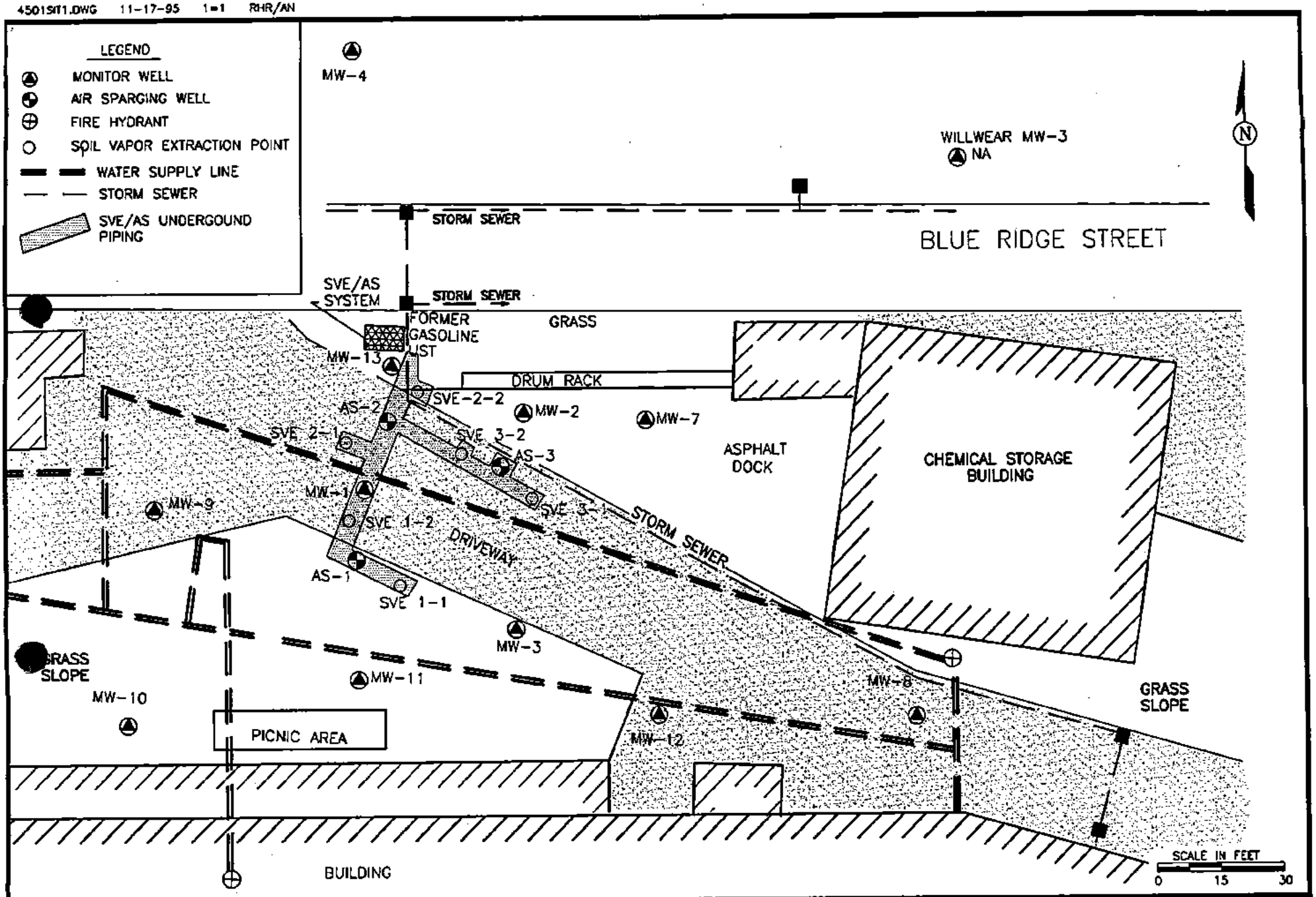
Signature of Contractor or Agent Joyce Young Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

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GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-13

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 12 DIAMETER: 2"

7. CASING REMOVED:

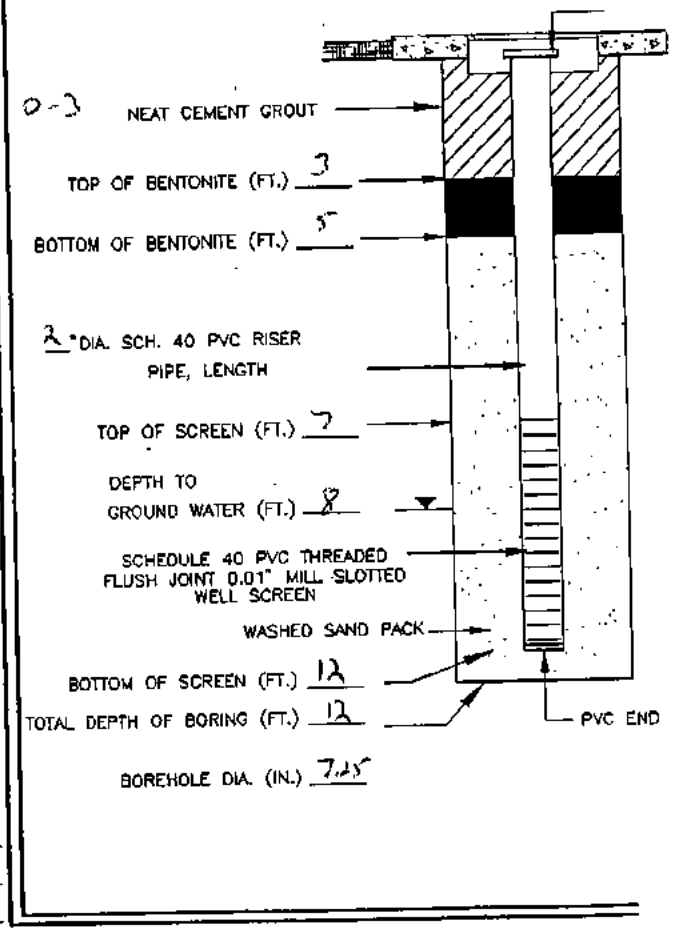
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

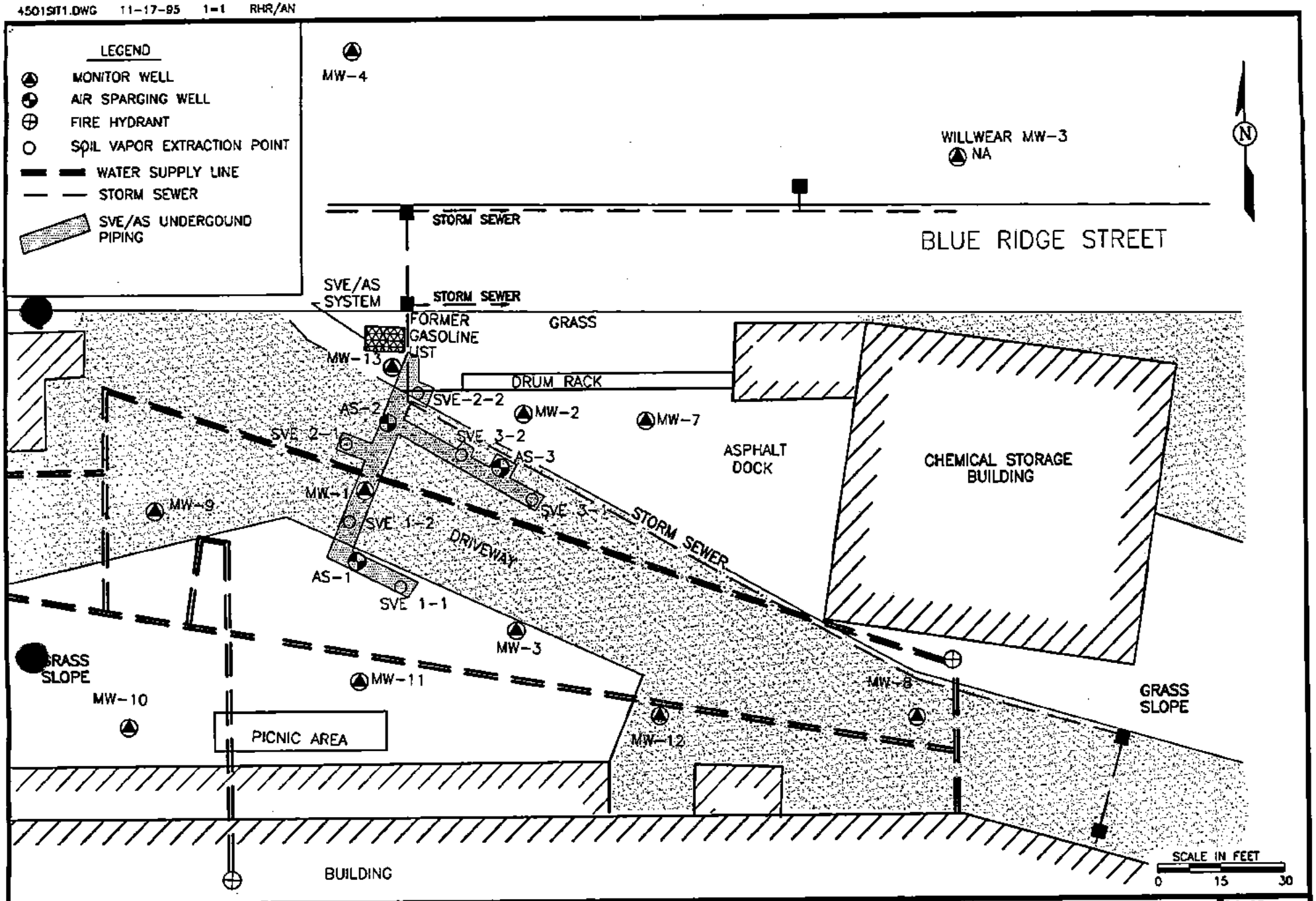
Signature of Contractor or Agent Jay Lowry Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

VMW-1

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1249 Morganton NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 39.5 DIAMETER: 2"

7. CASING REMOVED:

feet	diameter
N/A	N/A

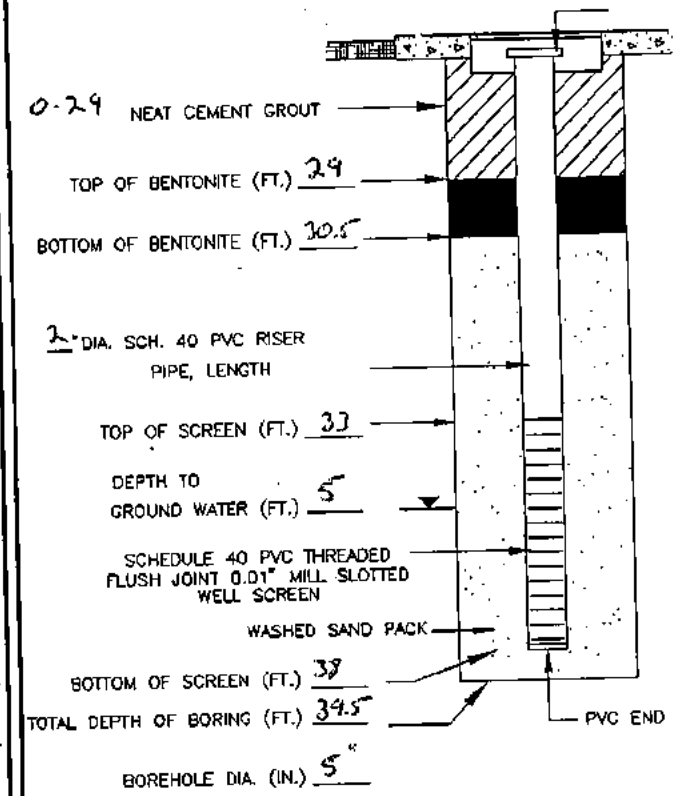
8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Pumped Grouted From the Bottom of the well to the top

CASED well with 6" casing to 32'
8" Borehole for casing



I do hereby certify that this well abandonment record is true and exact.

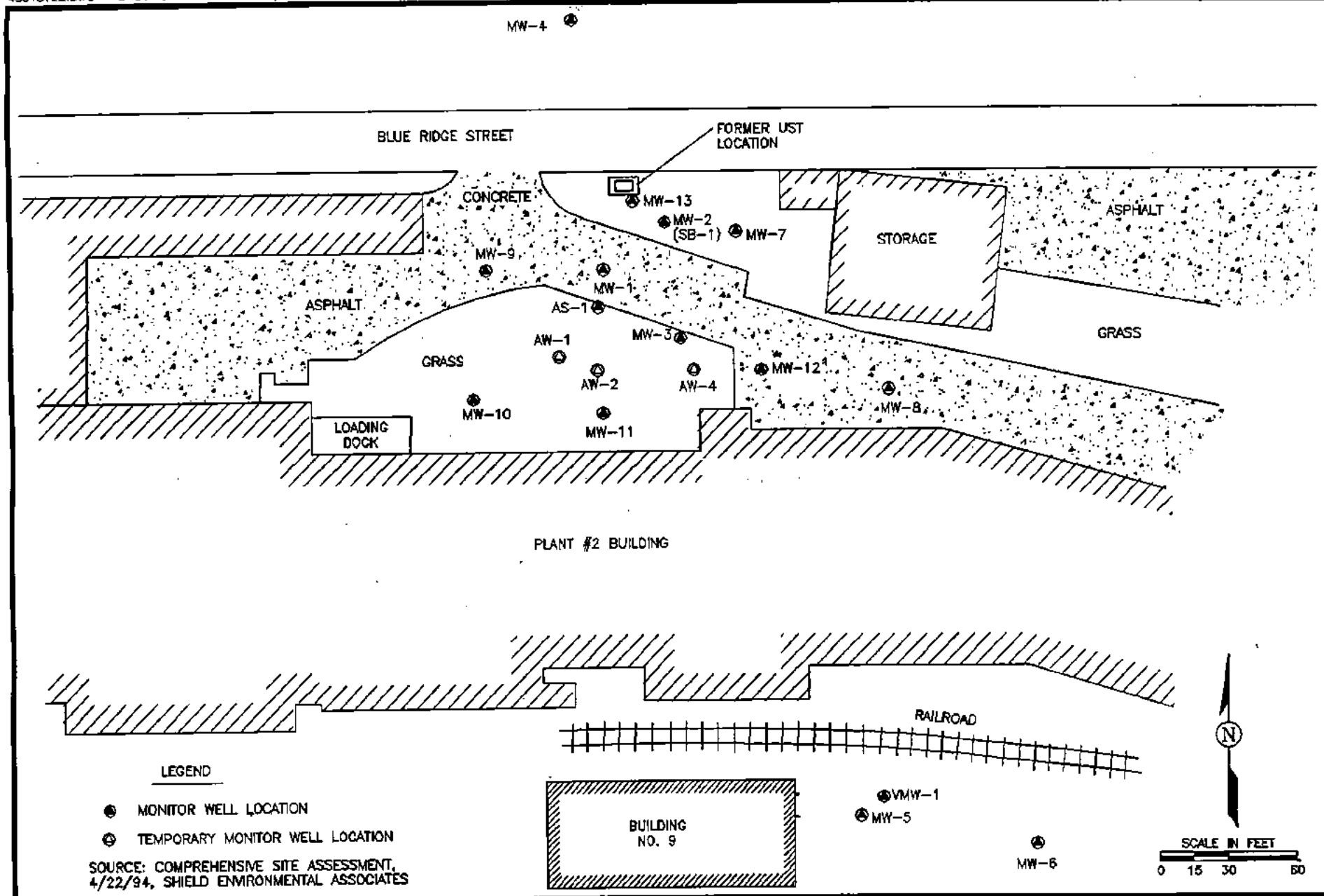
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

AS-1

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: AIR SPARGE DATE: 8-28-98

6. TOTAL DEPTH: 24 DIAMETER: 2"

7. CASING REMOVED:

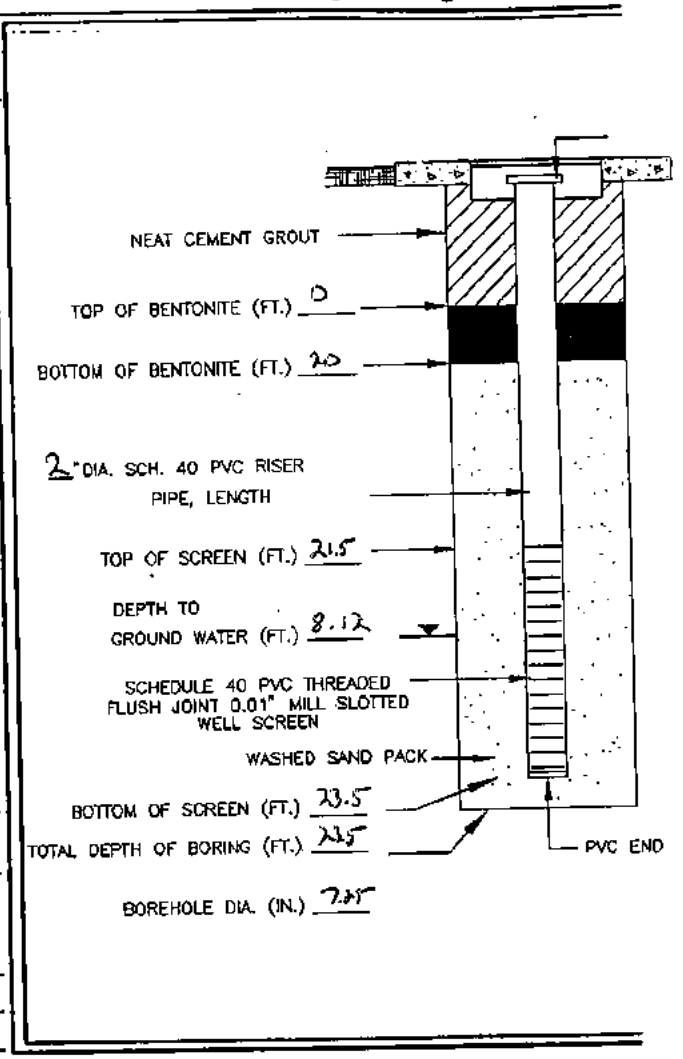
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2	bags of cement	
gals. of water	1	yds. of sand	
		gals. of water	

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



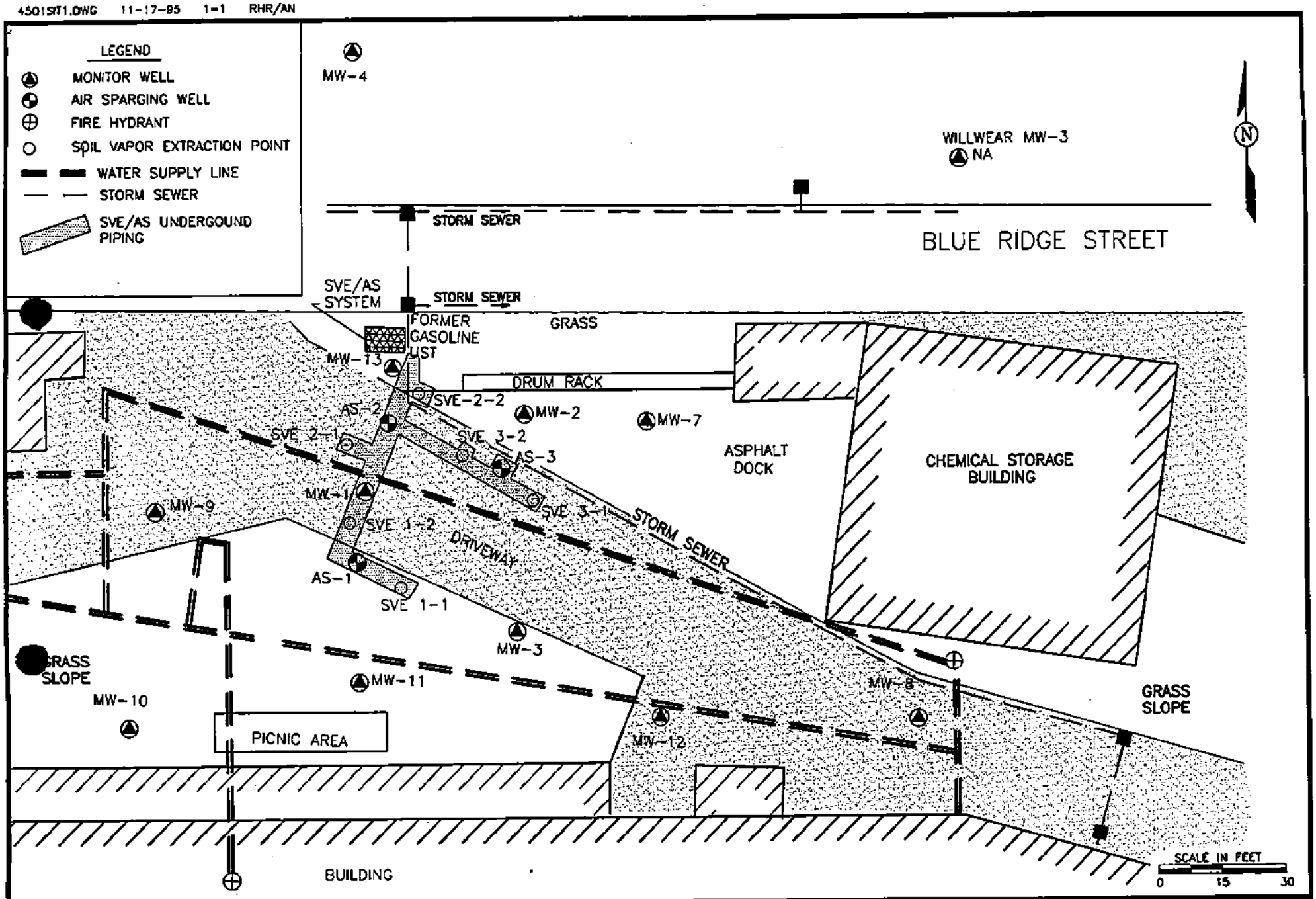
I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent Jay C Long Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

AS-2

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant 42

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Air Sparge DATE: 8-28-98

6. TOTAL DEPTH: 30 DIAMETER: 2"

7. CASING REMOVED:

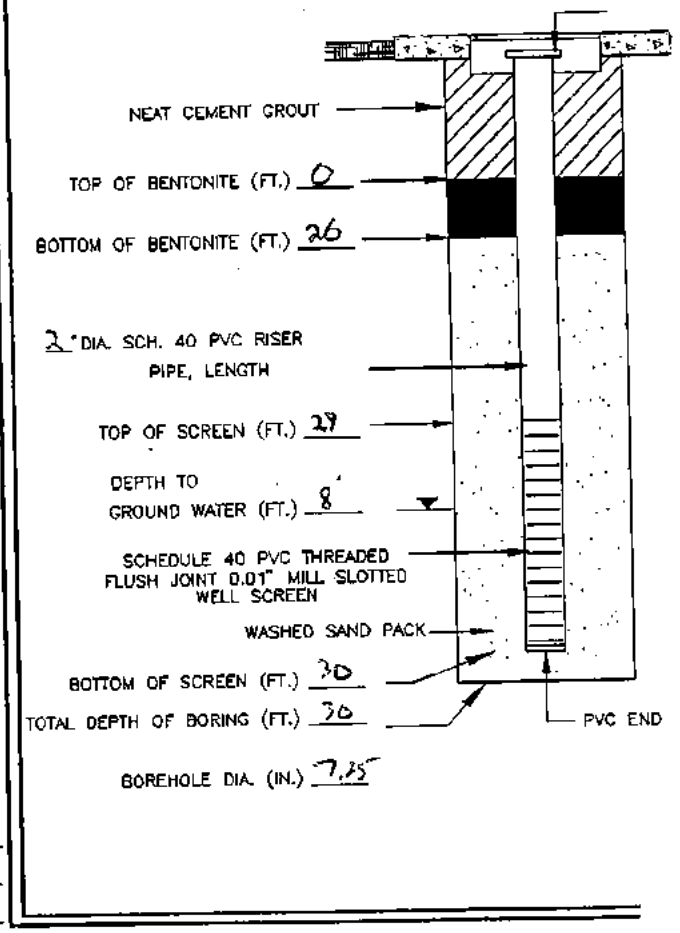
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.75	bags of cement	-
gals. of water	1.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

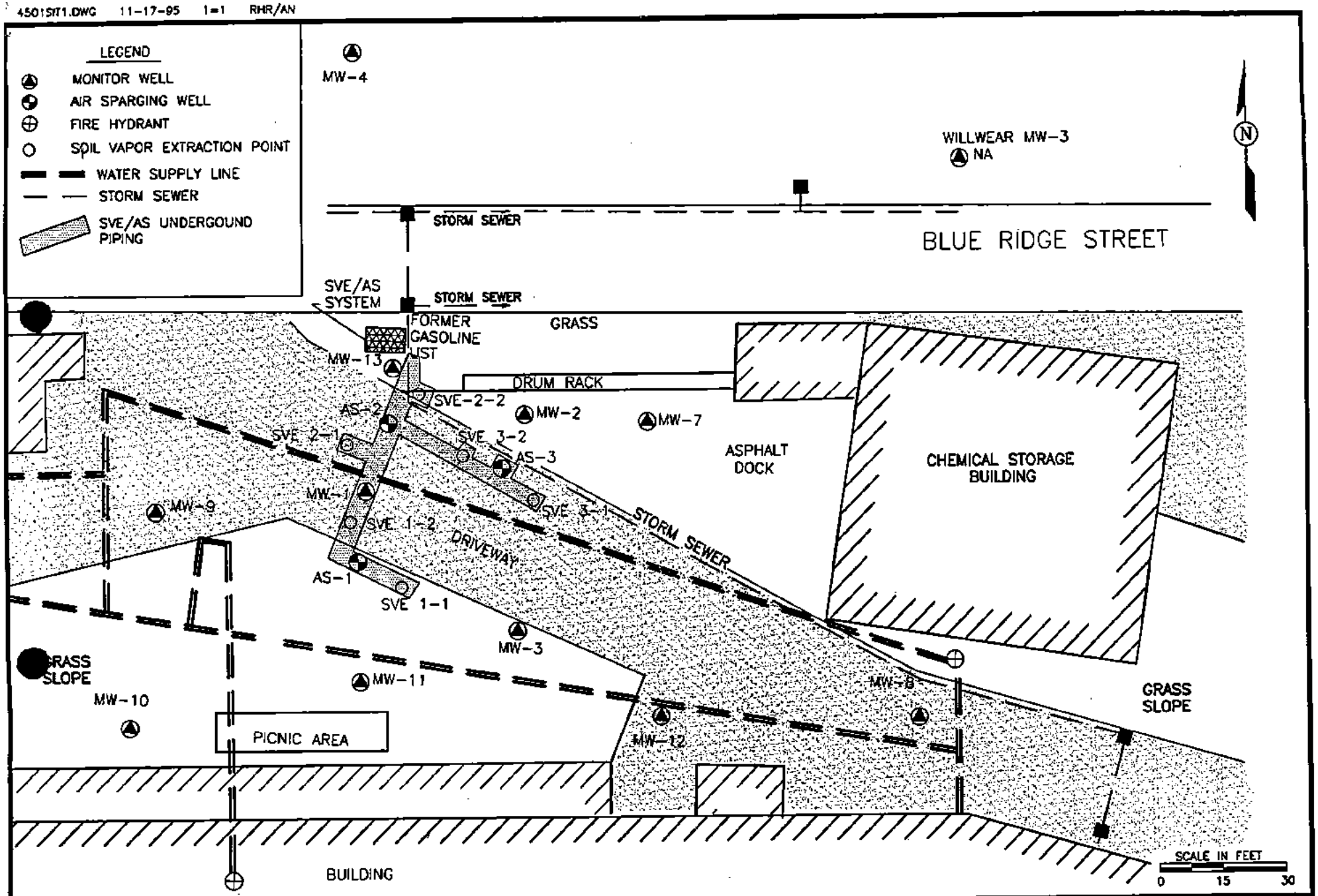
Signature of Contractor or Agent Jay Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

AS-3

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Air Sparge DATE: 8-28-98

6. TOTAL DEPTH: 30 DIAMETER: 2"

7. CASING REMOVED:

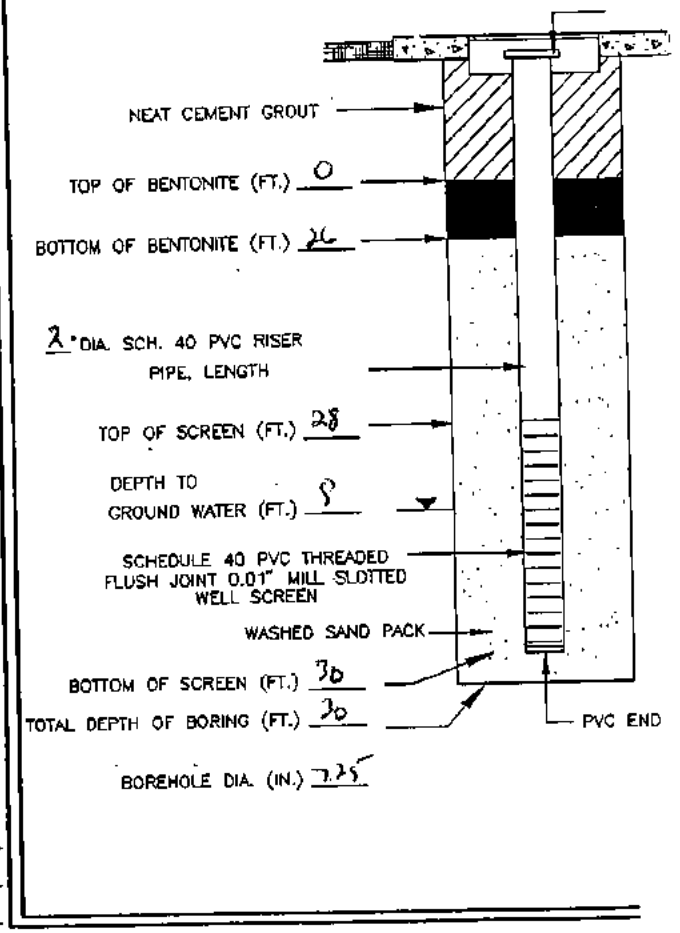
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.75	bags of cement	-
gals. of water	1.25	yds. of sand	
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

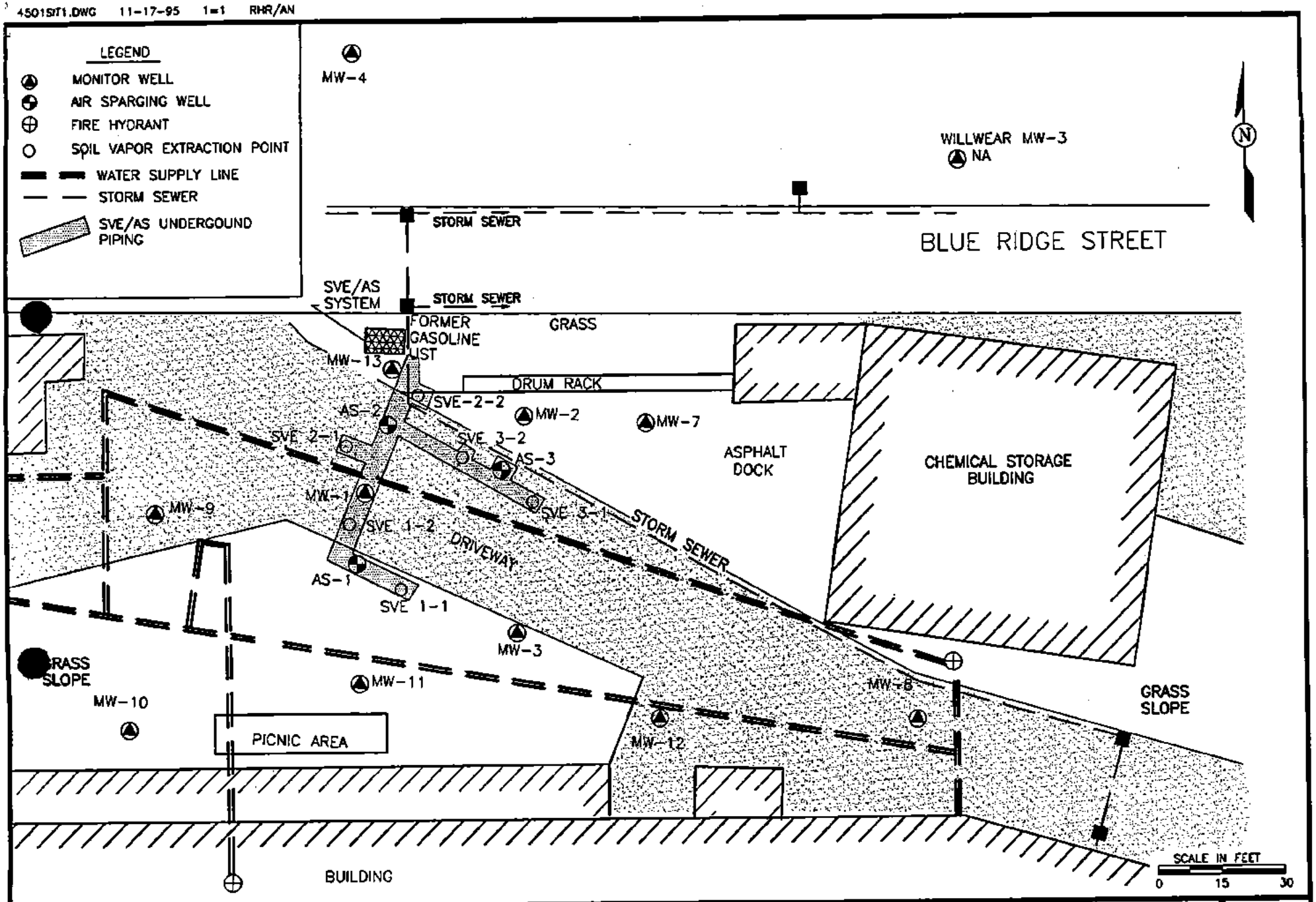
Signature of Contractor or Agent Jay Sanger Date 8-31-98

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GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

SVE-1-1

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
35082-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Soil vapor Extraction DATE: 8-28-98

6. TOTAL DEPTH: 10 DIAMETER: 4"

7. CASING REMOVED:

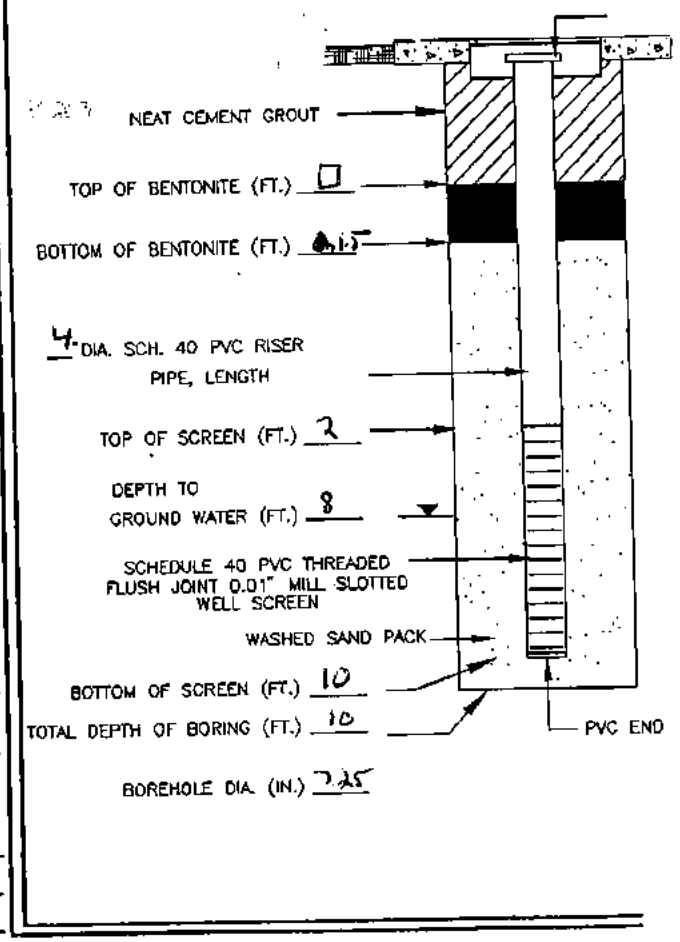
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

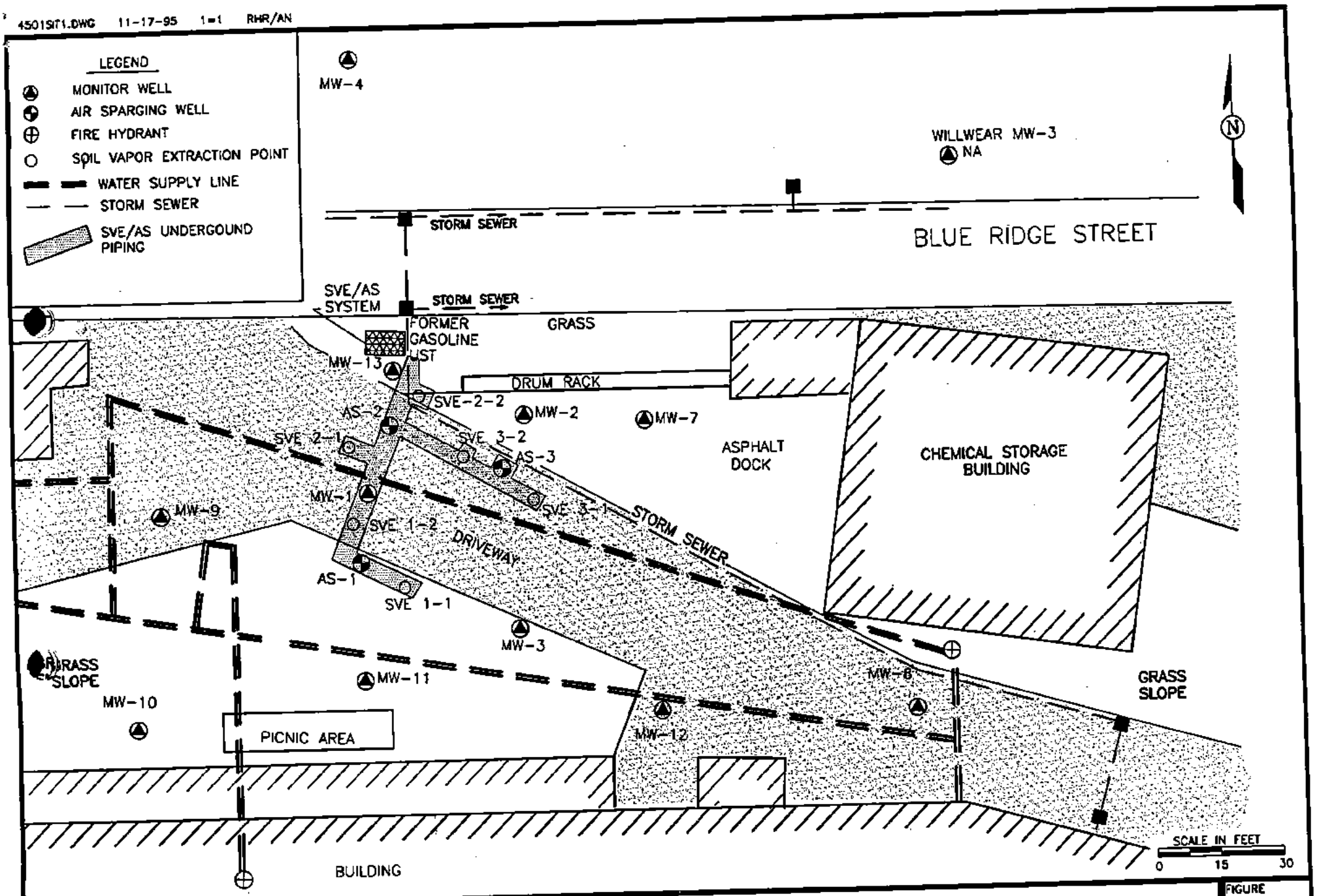
Signature of Contractor or Agent Jay C Long Date 8-31-98

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GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

SVE-2-2

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: SVE DATE: 8-28-98

6. TOTAL DEPTH: 10 DIAMETER: 4"

7. CASING REMOVED:

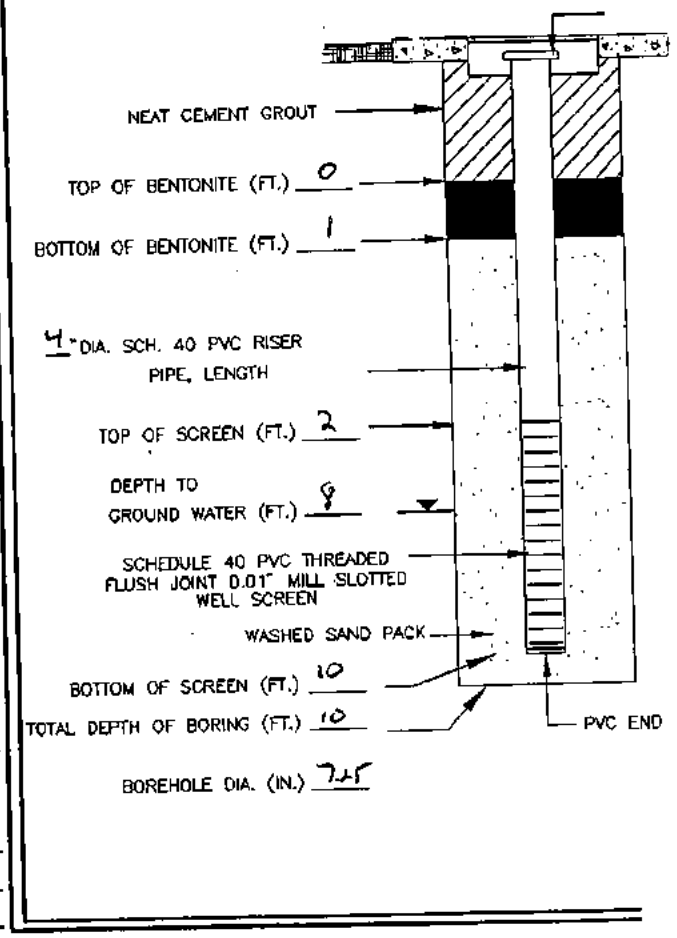
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.25	yds. of sand	-
		gals. of water	

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

SVE-3-2

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: SVE DATE: 8-28-98

6. TOTAL DEPTH: 10 DIAMETER: 4"

7. CASING REMOVED:

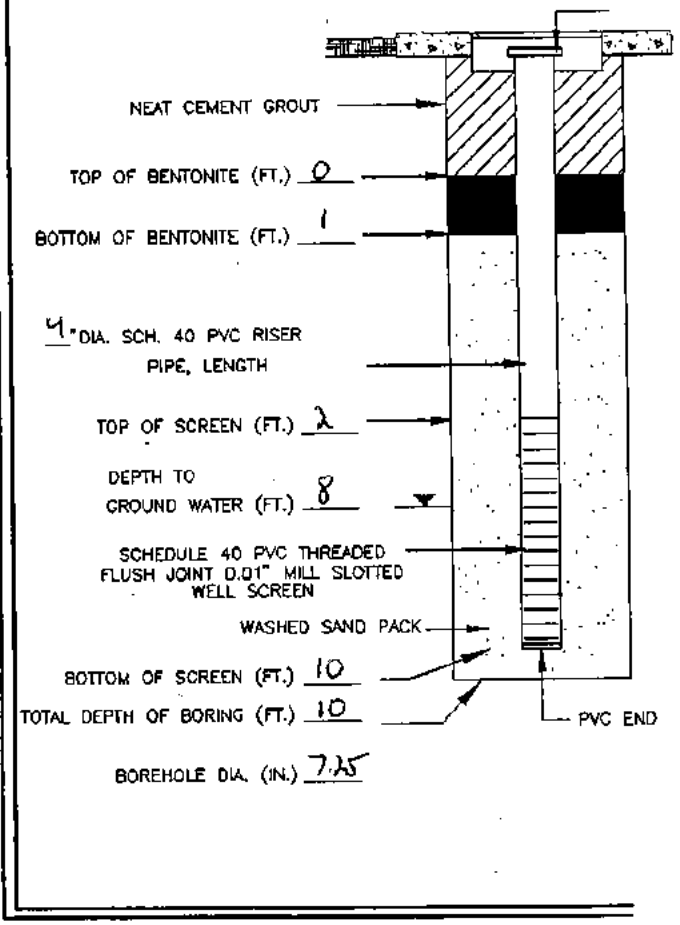
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

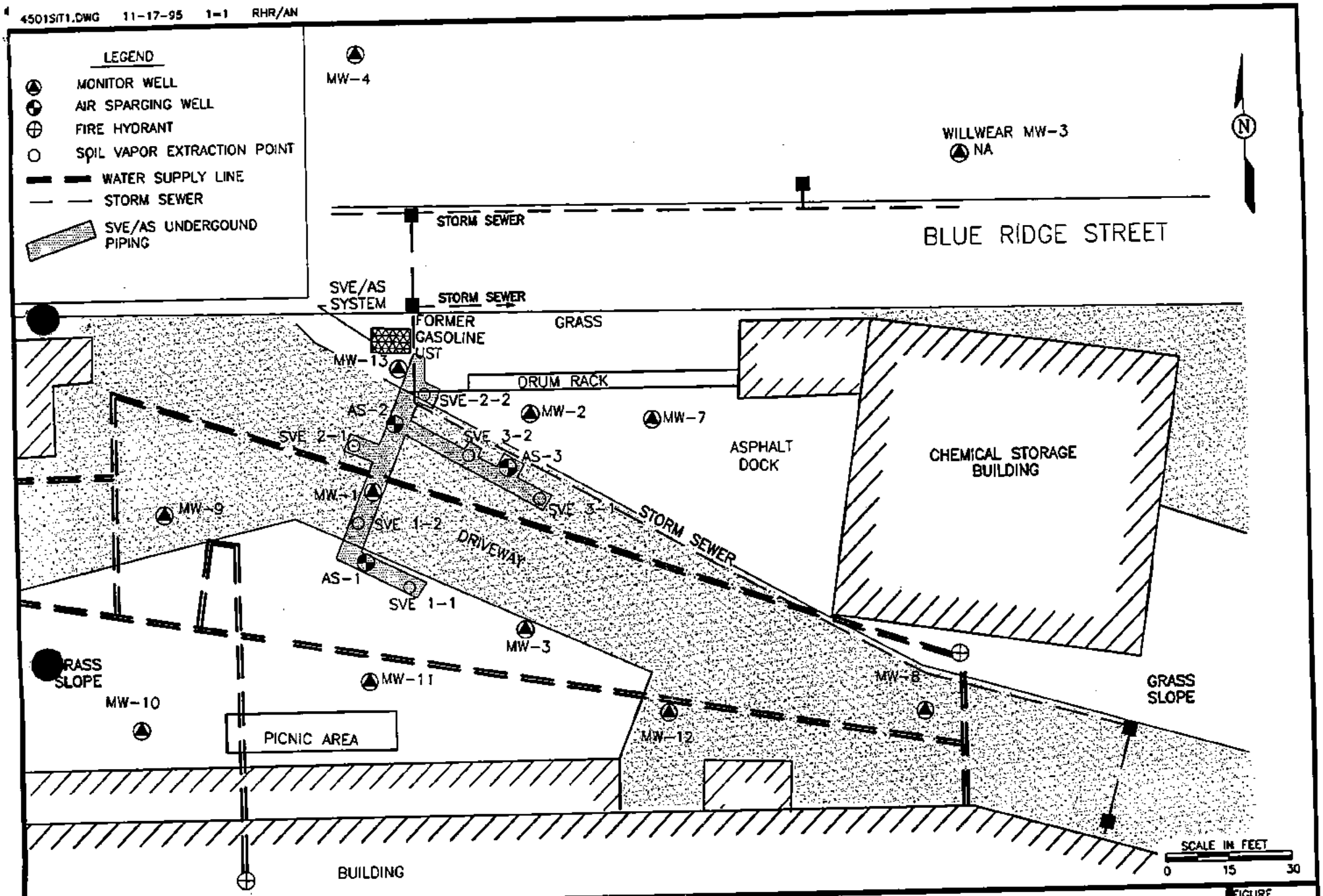
Signature of Contractor or Agent Jay C Lamm Date 8-31-98

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GW-30 Revised 3/8/90

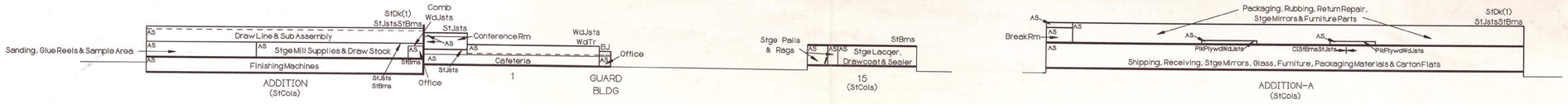
4501SIT1.DWG 11-17-95 1=1 RHR/AN

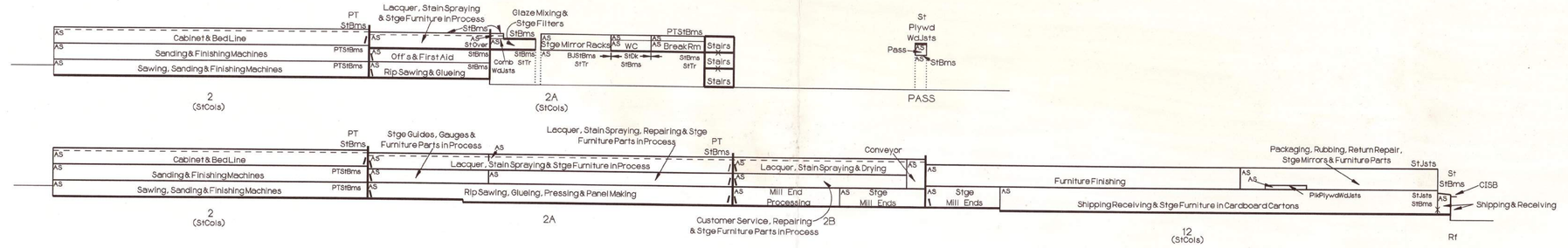


ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

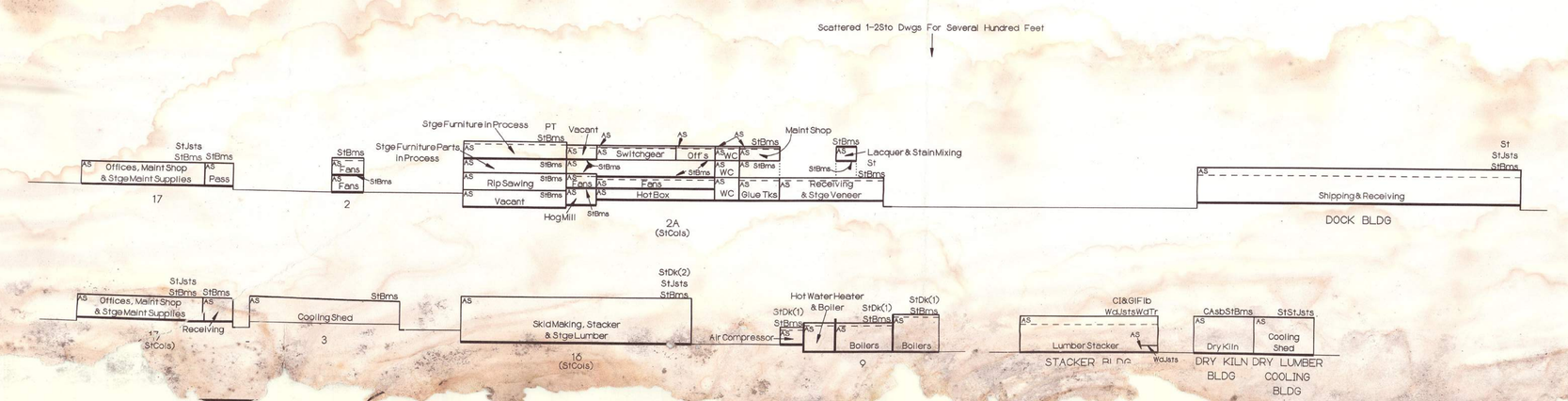
FIGURE
1





Scattered 1-2Sto Dwgs For Several Hundred Feet





LEGEND

- For beams on wood joist construction, or any material which is supported by wood joists.
- For plank on timber, plank on steel construction or any construction supported by wood timbers.
- For reinforced concrete, brick arch or similar constructions with no exposed steel supports.
- For any non-combustible construction which is supported by exposed steel supports (steel joists, steel beams or steel truss). For asphalt coated metal (AXM) supported by wood beams or exposed steel supports; aluminum or steel deck (class II) supported by exposed steel supports; mylar or plastic air supported structures, or in special cases when there are two or more different types of roof and floor construction in a multi-storied building.

- Dry or frost proof hydrant with fire department pumper connection (number of horns indicate number of hose outlets).
- Wall hydrant.
- 2½in HC's — Hose connections.
- Fire pump.
- FD — Fire department pumper connection.
- Automatic sprinkler point of distribution.
- Point of distribution of open sprinklers.
- Deluge valve, rate of rise or preaction type valves.
- Dry pipe valve with quick opening device.
- Alarm check valve.
- Flow alarm.
- Check valve (Detector check or back flow preventor when indicated).
- Indicator post gate, post indicator valve assembly or indicating butterfly valve.
- Gate valve, non-indicating stem or relief valve.
- Outside screw and yoke valve (OS&Y).
- Fire doors complete all floors unless indicated by number. Sub-standard doors shown with a light line.
- Elevators or stairs enclosed by fire walls with fire doors.
- Elevators or stairs complete in all floors with proof enclosures or hatches.

All fabricated ceilings are non-combustible on steel frame unless otherwise noted.

SPRINKLER SYSTEM DATA

RISER LOCATION	Type	Area (ft²)	Temp (°F)	Grid (ft.)	HYDRAULICALLY DESIGNED SYSTEM DATA: DENSITY (gpm/ft²/min)	Design Area (ft²) or Remote Area	DEMAND FLOW Flow (gpm)	DEMAND FLOW Press. (psi)
No 16					0.48	4500	2103	36
No 2A					0.30	4000	1545	45
No 2B					0.30	4000	1250	50
DRY LUMBER STOR	Wet	125	286	17/32	0.24	2000	530	65
					OH,KILN-RACKS,HYD,LD,ESFR			

REVISIONS

DR	CH	DATE	CHANGES MADE
LS		Sep-21-00	For F-Rg Insp of K.L. Drum, Sep-18-00
PFN		6-14-99	For F-Rg Insp of K.L. Drum, 6-8-99
JAC		8-25-98	For F-Sp Insp of D.L. Kiser 8-19-98
Roper		7-28-97	For F-Rg Insp of D.L. Kiser 7-9-97
MET		6-18-96	For F-Spec Insp of C.W. Edson 6-5-96

FURNISHINGS INTERNATIONAL, INC., et al.

"DREXEL HERITAGE-PLANT NO. 2"

Marion, N.C.

Surveyed by D.W. Uhlman
February 14, 1995

Scale: 1in = 50ft
By D.W. Uhlman

FACTORY MUTUAL INSURANCE COMPANY
Engineering Plan Services
500 RIVER RIDGE DRIVE, NORWOOD, MASS. 02062

INDEX 81802.70 | 1/1

INCHES BY 1/16

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

DEHNR

E
Drexel Heritage Plant #2
NCD 097368294

36

August 24, 1994

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NOTICE OF VIOLATION
Docket #94-324

Mr. Bud Bland
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina 28752

NCD 097 368 294

Dear Mr. Bland:

On December 18, 1980, the State of North Carolina, Hazardous Waste Section (State) was authorized to operate the State RCRA hazardous waste program under the Solid Waste Management Act, (Act) N.C.G.S. 130A, Article 9 and rules promulgated thereto at 15A NCAC 13A (Rules) in lieu of the federal RCRA program. Drexel Heritage Plant #2, Marion, North Carolina, is subject to the requirements of 40 CFR 262, codified at 15A NCAC 13A .0007, and 40 CFR 279, codified at 15A NCAC 13A 0018.

On August 11, 1994, Ms. Roberta Pursell and Ms. Spring Allen, Waste Management Specialists, with this office investigated the storage and disposal of undetermined waste and used oils at Drexel Heritage Plant #2 in Marion, North Carolina. Ms. Pursell and Ms. Allen observed 1) an area with drums of waste unknown chemicals - some drums open, some in poor condition; 2) an area with drums of used oil with releases on storage pad, surrounding ground and a storm drain and ; 3) an area where drum(s) of waste glue were disposed by being burned.

A. 40 CFR 261.1(a), codified at 15A NCAC 13A .0006, states that this part identifies those solid wastes which are subject to regulation as hazardous wastes under Parts 262 through 275 and Parts 270, 271, and 124 of this Chapter and which are subject to the notification requirements of Section 3010 of RCRA.

B. 40 CFR 261.2(b), codified at 15A NCAC 13A .0006, states that materials are solid waste if they are abandoned by being [1] disposed of; or [2] burned or incinerated; or [3] accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.

C. 40 CFR 261.3(a), codified at 15A NCAC 13A .0006, states that a solid waste, as defined in Section 261.2 is a hazardous waste if:

1. It is not excluded from regulation as a hazardous waste under Section 261.4(b); and

2. It meets any of the following criteria:

i. It exhibits the characteristics of hazardous waste identified in Subpart C.

ii. It is listed in Subpart D and has not been excluded from the lists in Subpart D under Sections 260.20, and 260.22 of this chapter.

iii. It is a mixture of solid waste and hazardous waste that is listed in Subpart D solely because it exhibits one or more of the characteristics of hazardous waste identified in Subpart C, unless the resultant mixture no longer exhibits any characteristic of hazardous waste identified in Subpart C.

iv. It is a mixture of solid waste and one or more hazardous wastes listed in Subpart D and has not been excluded from this paragraph under Sections 260.20 and 260.22 of this chapter.

D. GS 130A-290(6), defines "Disposal" as the discharge, deposit, injection, dumping, spilling, leaking or placing of any solid waste into or on any land or water so that the solid waste or any constituent part of the solid waste may enter the environment or be emitted into the air or discharged into any waters, including groundwater.

E. GS 130A-290(41), defines "Storage" as the containment of solid waste, either on a temporary basis or for a period of years, in a manner which does not constitute disposal.

F. It is the determination of the Section that the disposal/storage of the used oil and drums of waste chemicals and burning of waste glue at the Drexel Heritage Plant #2 in Marion, North Carolina constitute storage and disposal of hazardous waste subject to all applicable requirements of 40 CFR 262 through 265, 270 and 279. Specifically:

1. 40 CFR 262.11, codified at 15A NCAC 13A .0007, states that a person who generates a solid waste, as defined in 40 CFR 261.2, must determine if that waste is a hazardous waste using the following method:

   a. He should first determine if the waste is excluded from regulation under 40 CFR 261.4 and 261.5.

   b. He must then determine if the waste is listed as a hazardous waste in Subpart D of 40 CFR Part 261.

   c. If the waste is not listed as a hazardous waste in Subpart D of 40 CFR Part 261, he must determine whether the waste is identified in Subpart C of 40 CFR Part 261 by either:

      i. Testing the waste according to the methods set forth in Subpart C of 40 CFR Part 261, or according to an equivalent method approved by the Administrator under 40 CFR 260.21; or

      ii. Applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used.

Drexel Heritage Plant #2 is in violation of 40 CFR 262.11, codified at 15A NCAC 13A .0007, in that it generated a solid waste, as defined in 40 CFR 261.2, and did not determine if that waste is a hazardous waste.

2. 40 CFR 264.11, codified at 15A NCAC 13A .0009, states that every facility owner or operator must apply to EPA for an EPA identification number in accordance with the EPA notification procedures (45 FR 12746).

Drexel Heritage Plant #2 may be in violation of 40 CFR 264.11, codified at 15A NCAC 13A .0009, in that hazardous waste was stored and/or disposed of without the site having received an EPA identification number from the State.

3. 15A NCAC 13A .0009(a), states that any person who treats, stores, or disposes of hazardous waste shall comply with the requirements set forth in this section. The treatment, storage or disposal of hazardous waste is prohibited except as provided in this section.

Drexel Heritage Plant #2 may be in violation of 15A NCAC 13A .0009(a), in that hazardous waste has been stored and/or disposed without complying with the requirements set forth in this section.

4. 40 CFR 279.22(d), codified at 15A NCAC 13A .0018, states that upon detection of a release of used oil to the environment, a generator must perform the following cleanup steps:

(1) Stop the release;
(2) Contain the released used oil;
(3) Cleanup and manage properly the released used oil and other materials; and
(4) If necessary to prevent future releases, repair or replace any leaking used oil storage containers or tanks prior to returning them to service.

Drexel Heritage Plant #2 is in violation of 40 CFR 279.22(d), codified at 15A NCAC 13A .0018, in that used oil was released to the ground and was not contained or remediated.

COMPLIANCE SCHEDULE

By the dates specified below, Drexel Heritage Plant #2, Marion, North Carolina shall comply with the following requirements:

1. Comply with 40 CFR 262.11, codified at 15A NCAC 13A .0007. An immediate determination and/or analysis of all unknown waste in containers, and that being discharged must be completed to ensure proper characterization and disposition.

By September 24, 1994, develop and submit to this office a comprehensive sampling and analysis report which will characterize soil contamination (inorganic and organic) at your site. This report must specify constituents analyzed, sampling procedures, sampling locations, and depths that will assess the horizontal and vertical extent of contamination.

Upon verification of contamination, Drexel Heritage Plant #2 must immediately provide for the remediation of the site including soil removal, storage and transportation to an off-site disposal facility and sampling to evaluate the adequacy of the cleanup. Drexel Heritage Plant #2 must complete the initial soil removal with post-excavation sampling results by October 24, 1994. Failure by Drexel Heritage Plant #2 to initiate an effective site remediation by these dates may subject the site to additional requirements including closure plans, financial assurance for closure and groundwater monitoring.

2. Comply with 40 CFR 264.11, codified at 15A NCAC 13A .0009. If activities other than that of a Large Quantity generator are conducted by Drexel Heritage Plant #2, a revised notice of Regulated Activities form (8700-12) must be submitted for this site. You may contact Mr. Jim Edwards with this office at (919) 733-2178 to make provisions for obtaining this form.

3. Comply with 15A NCAC 13A .0009(a). By November 24, 1994, Drexel Heritage Plant #2 shall no longer store or dispose hazardous waste, and all hazardous waste previously on site shall be shipped to a permitted hazardous waste treatment, storage or disposal facility.

   During the interim, pending shipment of the waste, 40 CFR 262.34(a), codified at 15A NCAC 13A .0007 states that:

   a. If the waste is placed in containers the generator must comply with Subpart I of 40 CFR Part 265 or if the waste is placed in tanks, the generator must comply with Subpart J of 40 CFR Part 265 except 265.193.

   b. The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container.

   c. While being accumulated on-site, each container and tank is labeled or marked clearly with the words, "Hazardous Waste"; and

   d. The generator complies with the requirements for owners or operators in Section 265.16.

4. Comply with 40 CFR 279.22(d), codified at 15A NCAC 13A .0018. Drexel Heritage Plant #2 shall include the used oil released as part of the characterization of the soil contamination in item 1 above. In addition, Drexel Heritage Plant #2 shall ensure that necessary steps are taken to prevent the release of used oil in the future.

If the requirements above are not met, pursuant to N.C.G.S. 130A-22(a) and 15A NCAC 13B .0701 - .0707, an administrative penalty of up to $25,000.00 per day may be assessed for violation of the hazardous waste law or regulations.

If you should have any questions concerning this matter, you may contact Ms. Roberta Pursell at (704) 251-6208.

Sincerely,

Jerome H. Rhodes

Jerome H. Rhodes, Chief
Hazardous Waste Section

JHR/jsp/drexel

cc: Roberta Pursell
Keith Masters
Nann Guthrie
Central Files

Region IV CM&E Form - Side A

EPA ID: WCD097[illegible]3829Y

DATA ENTRY PERSONNEL
Submitted by: [illegible] Date: ____
Entered by: ____ Date: ____

35

Facility Name: Dixie #2 City: Manor

EVALUATION DATA: New: __ Change: __ Delete: __ (—— : Required)

Agency: S Date: Mo 09 / Day 11 / Year 97 Type CES

Control Number
Data Entry Personnel

Person: 063 BRANCH [illegible] REASON

Coverage Areas: (E: Evaluated NE: Not Evaluated NA: Not Applic. D: Del.)

Generators: GBF, GER, GGR E, GLB, GMR, GOR, GPT, GRR, GSC, GSQ

Transporters: TGR, THR, TOR, TRR, TWD

USED OIL: TUO, TFO, BUO, MUO, PUO, RUO

TSD's: DBF, DCH, DCL, DCP, DFR, DGS, DGW, DIN, DLB, DLF, DLT, DMC, DMR, DOR, DOT, DPB, DSF, DSI, DTR, DTT, DWB

COMPLIANCE SCHEDULE (TSD, GEN, TRANS.)
FEA ____ CA/FO ____

Evaluation Comments: (72) 1 : ____

2 : Immanent NOV drafted

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: | | Branch: | | | Seq. Number (Data Entry)

Actual / /

Reg. Type

Comm

enter as is CES

and violation found for GGR

#__ Ag Class:

Prio Seq. Number (Data Entry)

Actual / /

Reg. Type

Comm

#__ Ag Class:

Prio Seq. Number (Data Entry)

Actual / /

Return to Compliance: -- Scheduled -- / / Actual / /

Reg. Type: Reg. Description (30): ____

Comment (72): ____

Continue violation data if necessary -

DAT ENTRY PERSONNEL

Submitted by: _____ Date: _____

Entered by: _____ Date: _____

Region IV CM&E Form - Side B

EPA ID: NCD 097368294

Facility Name: Burial # 2 City: Marion

ENFORCEMENT DATA: New: __ Change: __ Delete: __ (——— : Required)

Agency: S Type: 7129 Date: Month 08 Day 17 Year 93 Number (Data Entry)

Period: 0163 Branch: 07 Comment (72): Amount NOV drafted

Penalty Data

Assessed: $ _____ Paid: $ _____ Date Paid: __/__/__

Settled: $ _____ $ _____ __/__/__

Enforcement Comments: 1: _____ (74)

2: _____

Cite violations for this enforcement action below -

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: _ Type: ___ Date (mdy) Determined: __/__/__ Class: _

Priority: _ Branch: __ Person: ___ Seq. Number (Data Entry) ____

Return to Compliance: -- Scheduled -- __/__/__ --- Actual --- __/__/__

Reg. Type: __ Reg. Description (30): _____

Comment (72): _____

#__ Agency: _ Type: ___ Date (mdy) Determined: __/__/__ Class: _

Priority: _ Branch: __ Person: ___ Seq. Number (Data Entry) ____

Return to Compliance: -- Scheduled -- __/__/__ --- Actual --- __/__/__

Reg. Type: __ Reg. Description (30): _____

Comment (72): _____

#__ Agency: _ Type: ___ Date (mdy) Determined: __/__/__ Class: _

Priority: _ Branch: __ Person: ___ Seq. Number (Data Entry) ____

Return to Compliance: -- Scheduled -- __/__/__ --- Actual --- __/__/__

Reg. Type: __ Reg. Description (30): _____

Comment (72): _____

Continue violation data if necessary -

COMPLAINT FORM

(P) = photos taken; (*) = violations noted

Inspector: Pursell / Allen Date in: 8-2-97
Site Name: Drexel Furniture # 2
Address: 962 Blue Ridge ST Manon 28752 County: McDowell
Phone: _____ RCRA Status/ID Number: Gen NCD 097 362 297
Owner: Corp
Owner Address _____
Owner phone: _____
Source of complaint (citizen, referal, etc. No Personal Names): Fire Marshall
Description of Complaint:
Burning Drums of glue

Investigation date: 8-11-97 Time: 2 hr
Persons present: Allen, Pursell, Burl Bland - P Manager
Jimmy Lowery - maintenance / safety ?
Investigation notes: #
See handwritten notes for details
* Three areas of concern 1) Drums of unknown chemicals (waste) in poor condition - no waste determination
#2) used oil on pad releasing into storm drain & on ground
3) area where drum of glue burned (see MODS)

Require waste determination on waste drum and sampling at used oil storage area and burn area.

~~Site Drawing:~~
See attached Handwritten notes.

~~Phone Contacts (date/time):~~
Imminent Hazard NOV Drafted

Referals: DEM: GND WATER; AIR; WATER EPA
SOLID WASTE HEALTH DEPT
EMERG. MANAG. SBI
OTHER _____

F-100-10

Material Safety Data Sheet

Franklin International

2020 Bruck Street Columbus, Ohio 43207 614/443-0241, 445-1411 (after hours)

HMIS Rating	
Health	1
Flammability	0
Reactivity	0

SECTION I—PRODUCT IDENTIFICATION

Product Name: Assembly 161
Product Number: 2238
Chemical Family Description: Polyvinyl acetate emulsion adhesive

SECTION II—HAZARDOUS INGREDIENTS INFORMATION

Hazardous Components	% by Weight	OSHA TWA	OSHA STEL[1]	ACGIH TLV	ACGIH STEL[1]	SARA Sec. 313
Vinyl acetate (CAS#108-05-4)	<0.30	10 ppm	20 ppm	10 ppm	20 ppm	Yes

[1] 15 minute exposure limit

SECTION III—PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point (F.°): 210
Vapor Density (air=1): 0.98
Solubility in Water: Dispersible
Appearance: White colored liquid
Odor: Mild
Typical Viscosity (cps.): 140
Specific Gravity (water=1): 1.08
Percent Volatile: 56.4
Evaporation Rate (water=1): 1
pH: 4.7

SECTION IV—FIRE & EXPLOSION HAZARD DATA

Flash Point (F.°): None
Flammable Limits: LEL=N/A, UEL=N/A
Extinguishing Media: Water if product has dried
Special Fire Fighting Procedures: Wear MESA NIOSH approved self-contained breathing apparatus
Unusual Fire & Explosion Hazards: None

SECTION V—REACTIVITY DATA

Stability: Stable. Conditions to Avoid: None
Incompatibility (materials to avoid): Strong acids and strong bases
Hazardous Polymerization: Will not occur. Conditions to Avoid: None
Hazardous Decomposition Products: Oxides of carbon and toxic monomer when burned

F-1000 70

SECTION VI—HEALTH HAZARD DATA

Threshold Limit Value: See front page (Section II).
Routes of Entry: Ingestion: No. Inhalation: Yes. Skin: No.
Health Hazards: **Ingestion:** Acute: Effects not determined. Chronic: Effects not determined.
Inhalation: Contains residual monomer (see front page Section II). When this product is used at room temperature, no incidence of adverse health effects resulting from inhalation of vapors has been reported to us. When this product is warmed, inhalation of vapors can cause irritation of the upper respiratory tract and eyes. Acute: Overexposure may cause irritation or dizziness. Chronic: Effects not determined.
Skin: Will not be absorbed through the skin. In rare cases may cause skin rash. Acute: Irritation. Chronic: Potential allergenic.
Carcinogenicity (monomer): IARC Monographs: No. NTP: No. OSHA Regulated: No.
Two year animal tests (inhalation) at 50, 200 and 600 ppm of vinyl acetate monomer have shown that some animals in the 600 ppm group developed tumors. There was no tumor response at the 50 and 200 ppm levels. There is no evidence of human carcinogenicity.
Signs and Symptoms of Exposure:
Ingestion: Not determined.
Inhalation: Dizziness, irritation.
Skin: Irritation.
Eye Contact: Irritation.
Medical Conditions Generally Aggravated by Exposure: Not determined.
Emergency First Aid Procedures: Consult physician in all cases.
Ingestion: Do not induce vomiting.
Inhalation: Remove patient to fresh air.
Eye Contact: Rinse with running water for 15 minutes.
Skin Contact: Wash with soap and water. If rash persists, contact physician.

SECTION VII—PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be Taken in Case Material is Released or Spilled: Cleanup with suitable absorbent and place in an approved container. If product has dried, scrape up and place in an approved container.
Waste Disposal Method: Disposal of contents and/or container should comply with applicable federal, state and local regulations.
Precautions for Handling and Storing: Store at temperature between 50°F. and 90°F.
Other Precautions: Keep from freezing.

SECTION VIII—SPECIAL PROTECTION INFORMATION

Respiratory Protection: Wear suitable approved respirator where exposure limits may be exceeded.
Ventilation: Local Exhaust: Sufficient to maintain OSHA TWA and STEL. Standard plant ventilation otherwise. Mechanical (general): Yes. Special: No. Other: No.
Protective Gloves: Where repeated or prolonged contact can occur the use of impervious gloves is recommended.
Eye Protection: Splashproof safety eye protection.
Other Protective Equipment: None.

SECTION IX—MISCELLANEOUS

Volatile Organic Compound (VOC): .080 lbs./gallon (calculated as VOC on solids).
Proposition 65: This product contains trace amounts of acrylamide and acetaldehyde which are known to the state of California to cause cancer.

This information is given without any warranty or representation. Franklin International does not assume any legal responsibility for the same. It is offered solely for your consideration, investigation and verification as to the accuracy or suitability of such information for application to purchaser's intended purposes and use.

8/11/94 Drexel #2 McDowell

Allen Turner

Bud Bland (P.M.) — 930AM.

940 Meet w/ Mr. Bland.

BB States that it was a drum of trash "Lady - I can't tell you what in that drum. It was supposed to be some epoxy adhesive.

been here 3 days I can get you an answer

Jimmy Lowery - Safety / Fire Brigade Training

Empty's out. < 1 gal - 2 gal

pump will not pull out / lumps

4 barrels - > 1/2 < 10 gal.

5 - 10 gal est

non Pox corr flam.

H2O will dilute

RP MSDS - Not here in George's office: PVA Poly Vinyl adhesive

George of Billie Plant Nurse will have MSDS's.

RP SA Regs for testing. We eng. 40 CFR when disposal of any of them. Waste determination. → in lieu of EPA

RP Permit to burn non chemx's by Forest SJs ... etc - but

Any Chemical must be disposed properly not burned

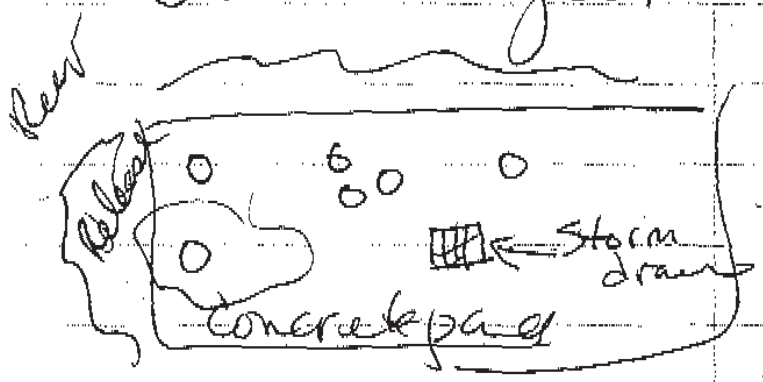
RP Analysis of samples taken by AQ - y/ General cleanout - y you have any other old mats - glues, epoxy glues whatever - first conduct waste determination! for proper disposal

RP requested copy of MSDS.

Older glues tend to be haz bec prior to tightening regs y you don't know - waste determ pour out / burn etc - prohibited.

BB I know it was poured I don't have a problem as long as RP walks out to area

Lumber yard Area 2



Hydraulic lift

Used oil containers open w/ rainwater released off Rear of pad

Anchorseal end sealer for logs & lumber

H-1 F-1 KO-PP C

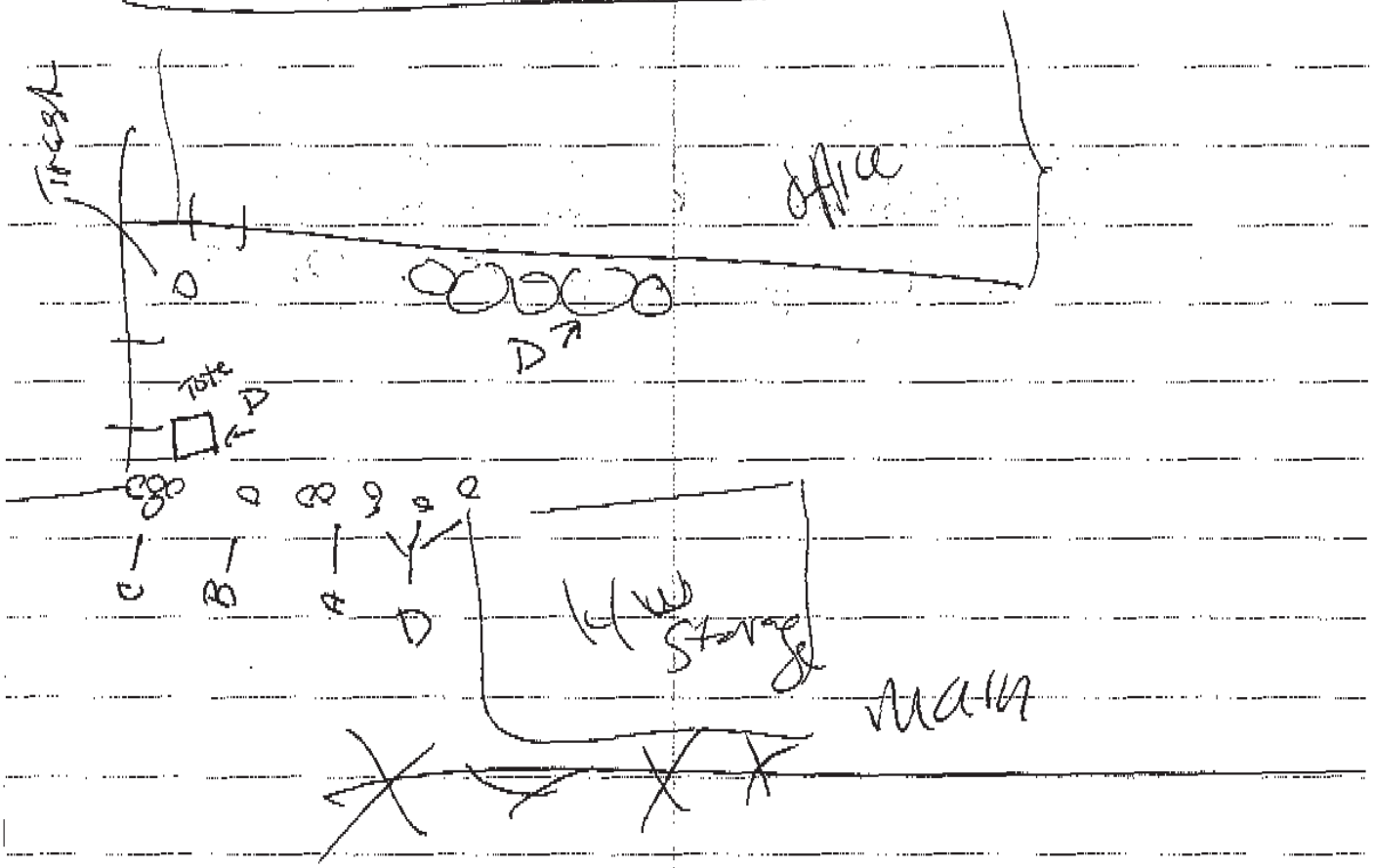
gl

Sludge Accumulated Drums

Storage Area
14 drms

2 Phase 5
gen area

A	1 bleach return to vendor
B	1 contractor oil - some release
C	4 Sol for MW's UST gasoline
D	5 blues +3 + Tote



RP

3 areas of concern

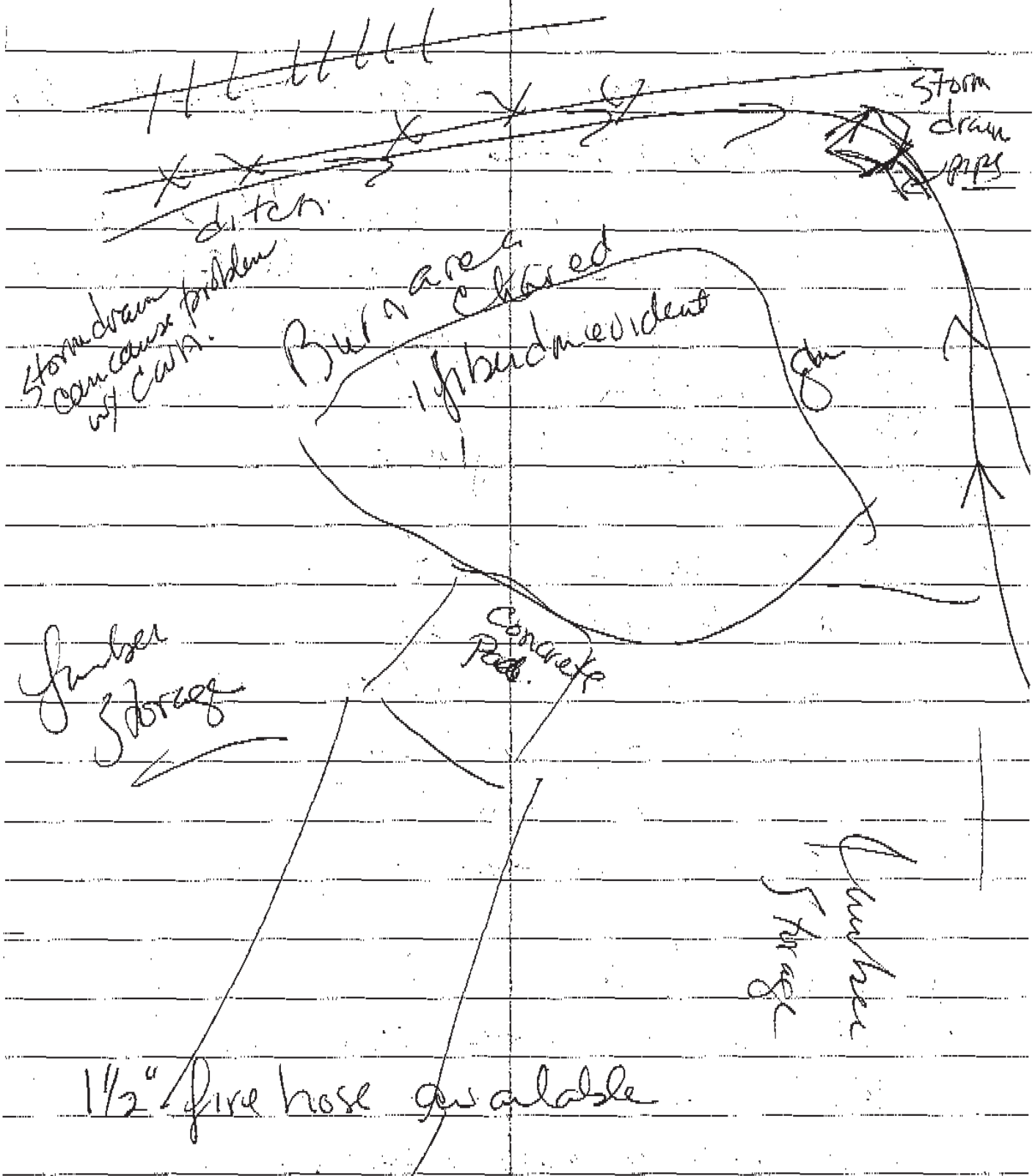
2 - Chronic release of used rods
response
Rem storage - Closed
point of releases - Today close area
Not forthcoming - known -
Sampling of soils in areas
of 3 maybe!

General

2-3 weeks - determine
waste determination →
appropriate handling/storage
Smoky - Y problem
Haz constituents?
- Horiz Vert extent of contam

designate 1 area for unit storage
make sure people are trained to
know this - easier tracking
inventory to make easier know
what is on site

Area 3 Burn Area



Rd

grp by clean dns for aque
for resh barrels
talk about eff → incase
for liability

Call - y ?'s w/ NOV
W/ multi comply dates.
some flexibility
y ?'s call prior to comply dates
or no flexibility

NOV Noaxn → Co r/t

BB

Region IV CM&E Form Side A

EPA ID: NCD097368299 #

DATA ENTRY PERSONNEL
Submitted by: ___ Date: ___
Entered by: ___ Date: ___

McDowell Co 37

Facility Name: Drexel Heritage Plant 2 City: Marion

EVALUATION DATA: New: X Change: __ Delete: __ (—— : Required)

Agency: S Date: Mo. 09 / Day 28 / Year 94 Type: CEI

Control Number Data Entry Personnel: 15

Person: 061 BRANCH 01 REASON

Coverage Areas: (E: Evaluated NE: Not Evaluated NA: Not Applic. D:Del.)

Generators: GBF, GER E, GGR, GLB, GMR, GOR, GPT, GRR, GSC, GSQ

Transporters: TGR, TMR, TOR, TRR, TWD

USED OIL: TUO, TFO, BUO, MUO, PUO, RUO

TSD's: DBF, DCH, DCL, DCP, DFR, DGS, DGH, DIN, DLB, DLF, DLT, DMC, DMR, DOR, DOT, DPB, DPP, DSI, DTR, DTT, DWP

COMPLIANCE SCHEDULE (TSD, GEN, TRANS.) FEA ___ CAS ___

RECEIVED OCT 5 1994 HAZARDOUS WASTE

Evaluation Comments: (72) 1: per Notification noted

2: Please find $700 - 2. for update

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

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Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

RCRA INSPECTION REPORT

X = violation noted; NA = not applicable

Facility Name: Drexel Heritage Plant #2
Location: 3601 Blue Ridge St Marion NC 28752
Mailing Address:
ID #: NCD 097 368 297 Phone number: 704.433.3511 (Corp (652 4767) site
Contact/Title:
Inspection Date: 9-28-94 Last Inspection: 9-13-93
Phone number: 652 2535 Status: Generator
Inspector(s): Spring Allen Type of Inspection: CEI
Present at Inspection: Jimmy Lowery (Maintenance Safety)
Type of business: Manufacturer Wooden Furniture
Wastes Generated: D001/D039 petroleum Naptha (also D006 D008 D018, D035, D040) F003/5/D001 Acetone Toluene,

****

Manifests:

Approved transporters? YES Approved TSD's ? YES
Signed Copies? YES Filled out correctly? YES
LDR notification attached? (YES)
Safety Kleen Corp. SCD (Greer)
The Pollution Co VAD.

Waste Minimization: Corporate policy but now written plan. Corporate environmental personnel are assisting facility to develop written plan. New spray guns changed to blanket filters

Inspection Records?

Evidence that inspections are conducted

Contingency Plan: Last Revision 5-18-94

On site? YES
Any changes to facility/processes or Emergency coordinator since last review? YES
Contingency plan implemented? (if yes, was it adequate ?)
Johnny Presnell 1st Jeff Smith 2nd.

Training Records: YES training conducted 3-17-94

Certified training documents available? OK
Any new employees since last review? OK
Evidence of improper/inadequate training? OK
on spot Orders

Facility name: Drexel Heritage Plant #2 Page 2
ID #: NCD 097 368 297 Inspection Date 9-28-94

Employee interviews:
Name(s) Jimmy Lowe Trained? 3-17-94
need more emphasis for hazards for clean up personnel.

Annual Report submitted? 2-24-94 copy retained on site

Emergency Preparedness:
* Facility maintained and operated to prevent releases? OK
Internal communications or alarm present? OK
Device in area of operation to summon outside aid? OK radios.
Portable fire extinguishers and/or fire control equipment? OK
Spill control equipment? sawdust.
Adequate water volume, foam equipment, or auto sprinklers? throughout
All equipment/alarms tested and maintained? in house weekly
All personnel handling HW have access to alarm/device? yes
* Aisle space in areas of facility operation? yes
Agreements with Emergency Responders? yes as described in plan

Storage
~~Satellite Accumulation~~ Area(s): Location(s): ~~Satellite Area~~
Storage area was the old house, 10 drums at time of inspection in good order.
Containers: Closed? OK
labeled? OK OK
< 55 gallons?

Satellite
~~Storage Areas~~: Description: ~~Storage to the thinner~~
1 - Little Jumbo Area - LC.
1 - Rawlplug Diptank

Containers: Closed? OK
labeled? OK
dated? OK
good condition? OK
Aisle space? OK
evidence of release? NO
< 90 days? OK

Other HW units: (applicable regulations)
Description of unit:
Used oil storage shed newly built - on existing concrete pad

External facility condition: much improved, facility conducted general cleanup and removal of obsolete materials

Facility name: Drexel Hardaway Plant #2
ID #: NCD 097-308-297 Inspection Date 9-28-94

Site Deficiencies:

None noted

NOTE: Facility is currently clearing upon area of used ore release and clearing a burn area under NOV Docket # 94-324. These areas although much improved have not been addressed specifically by this report.

Inspector/ Reviewer

9-28-94
Date

Jimmy Lowery
Facility Contact

Region IV CM&E Form - Side A

EPA ID: NCD 097 3 6 [redacted] 2 9 4

DATA ENTRY PERSONNEL
Submitted by: [redacted] Date: _____
Entered by: _____ Date: _____

38

Facility Name: Drexel #2 City: Marion

EVALUATION DATA: New: __ Change: __ Delete: __ (—— : Required)

Agency: Date: Mo: 12 / Day: 07 / Year: 94 Type: CEI

Control Number Data Entry Personnel

Person: 063 BRANCH 01 REASON

Coverage Areas: (E: Evaluated NE: Not Evaluated NA: Not Applic. D: Del.)

Generators: GBF, GER, GGR E, GLB, GMR, GOR, GPT, GRR, GSC, GSO

Transporters: TGR, TMR, TOR, TRR, TWD

USED OIL: TUO, TFO, BUO, MUO, PUO, RUO

TSD's: DBF, DCH, DCL, DCP, DFR, DGS, DGH, DIN, DLB, DLF, DLT, DMC, DMR, DOR, DOT, DPB, DPP, DSI, DTR, DTT, DWP

COMPLIANCE SCHEDULE (TSD, GEN, TRANS) FEA CAS

RECEIVED DEC 15 1994 HAZARDOUS WASTE

Evaluation Comments: (72) 1 :

2 : In Compliance w/ NOV # 94-324

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / -- Actual -- / /

Reg. Type: Reg. Description (30):

Comment (72):

JAN 1995 ENTERED RCRIS

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / -- Actual -- / /

Reg. Type: Reg. Description (30):

Comment (72):

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / -- Actual -- / /

Reg. Type: Reg. Description (30):

Comment (72):

Continue violation data if necessary -

DAT ENTRY PERSONNEL

Submitted by: _____ Date: _____

Entered by: _____ Date: _____

Region IV CMLE Form - Side B

EPA ID: W C D 0 9 7 3 6 8 2 7 7

Facility Name: Dexel #2 City: Marion

ENFORCEMENT DATA: New: __ Change: __ Delete: __ (—— : Required)

Agency: S Type: 120 Date: Month / Day / Year Number (Data Entry)

Person: 085 Branch: 01 Comment (72): In Compliance w/ NOV #94-324

Penalty Data

Assessed: $ Paid: $ Date Paid: / /

Settled: $ $ / /

Enforcement Comments (74): 1: _____

2: _____

Cite violations for this enforcement action below -

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / --- Actual --- / /

Reg. Type: Reg. Description (30): _____

Comment (72): _____

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / --- Actual --- / /

Reg. Type: Reg. Description (30): _____

Comment (72): _____

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / --- Actual --- / /

Reg. Type: Reg. Description (30): _____

Comment (72): _____

Continue violation data if necessary -

RCRA RE-INSPECTION REPORT

1) Facility Name: Drexel #2

ID Number: NCD 097 368 294

Type of facility: generator

Contact: Bud Bland

Phone Number:

Facility Location (address): 361 Blue Ridge ST

City, State, Zip: Marion, NC 28752

2) Survey Participants: R. Russell, S. Allen, Bud Bland, J Lowery.

3) Date of Inspection: 12-8-94

4) Purpose of Inspection: To determine compliance with NOV # 94-324.

5) Site Deficiencies:
- Oil storage pad covered, diked w/ storage rack for drums.
- Soil sampled and showed no hazardous constituents.
- all containers at loading dock removed

Signed:

Roberta Russell
Inspector/Reviewer

12-12-94
Date

per certified mail
Facility Contact

DREXEL HERITAGE

ABBREVIATED HISTORY FOR (up through 5/12/06):
Willwear Hosiery
County: McDowell
COC: heating oil
GW # - 11940

Current property owner:
Don & Susan Mitchell
P.O. Box 1958
Marion, NC 28752-0000

Physical address:
360 Blue Ridge Street
Marion, NC 28752

RP: (was)
Mr. Tony Shogren
Shogren Industries
Address unknown

Past Consultant:
Mr. Roger Moore
ALPHA Environmental

Parcel #

HAS UST DETERMINED THAT THIS IS IN FACT A NON-UST SPILL? (i.e. AST + UST + LINES + UST SYSTEM)

yes - all determined by Bill Reid according to a phone log by Mike Streeter. (reviewed by Bunnie as well)

DID ALPHA HAVE A SECURITY INTEREST IN PROPERTY OR WAS IT GIVEN AS A SETTLEMENT OF SORTS? IF THE LATTER, THEN NOW ALPHA AS WELL AS CURRENT OWNERS

This file has been sitting in limbo since 1999. The incident began due to a spill of 2000 gallons of heating oil from an AST at the Willwear Hosiery property. A UST connected to an AST was sending fuel via a line to the AST when the shut off valve became stuck and leaked 2000 g of fuel onto the ground overnight. It became more complicated as heating oil/diesel was found to be leaking from drainage pipes on an adjacent property (Drexel). There was an implication that it had come from the Willwear property, however access was denied initially to get onto the property for installation of monitoring wells. Then, Willwear went bankrupt and all work ceased. The property was given to ALPHA due to the debts owed by the company for their previous environmental work. ALPHA has since sold the property. NCDENR tried sending out enforcement letters to the RP, however both attempts were returned with "no longer at this address, forwarding address unknown". Neither a CSA nor a CAP was ever completed.

1/21/94	Spill at the plant occurred – reportedly covered up by hauling in gravel and not reported.
3/18/94	Spill called in to the NCDENR – AST leaked heating oil over a 24-hour period onto the ground.
3/24/94	NOV for Oil Spill Act sent by NCDENR
4/11/95	Report to NCDENR about fuel oil seeping out from under Drexel Heritage Bulk Storage building.
4/24/95	UST closure report submitted by ALPHA – 3 closure samples indicated that no contamination present beneath UST.
5/17/95	Letter from ALPHA indicates that RP will take responsibility for diesel on Drexel property and will address as part of the scope of work for the CSA.
5/23/95	ALPHA submits a Soil Remediation Report. The UST and AST were removed from the site and a new AST installed. Contaminated soils were excavated around the fill pipes, product lines, and beneath the location of the AST. 294 Tons of soil was thermally treated on site. CSA was still being completed.

I'm not sure the difference here, but said they acquired following bankruptcy...

5/23/95	Phone call to Mike Streator from the adjacent property owner (Drexel Heritage) complaining of diesel fuel coming onto their property from Willwear.
6/6/95	Letter submitted to NCDENR showing locations of additional monitoring wells to be installed at Drexel as part of the CSA.
7/3/95	Drexel Heritage denies ALPHA access onto property to install the proposed MW's, even though they agreed during a previous site meeting at the Drexel property.
7/6/95	Drexel heritage corporate confirms property access denial, but agrees to a meeting to discuss the situation.
7/7/95	NCDENR sends a letter to Drexel requiring site access under 2L provisions – Drexel's response is they want more info before proceeding
8/1/95	telephone call from ALPHA confirms that Willwear has gone out of business and has not paid off their account – no work is to be done until finances are settled. ALPHA to keep NCDENR informed. NCDENR responds by issuing a letter to Willwear stating that despite their bankruptcy, they are liable and responsible for the incident and all environmental work.
12/10/96	"Recommendations for Enforcement Action" letter sent to Mr. Shogren by the NCDENR – returned because he is no longer at that address.
1/21/97	Second attempt to send above letter – returned again – no known forwarding address.
5/18/98	Roger Moore of ALPHA calls NCDENR stating that they have acquired the property due to the bankruptcy of the company and the unpaid debt – wants to sell the property and has potential interested buyer.
8/11/9899	ALPHA requests site closure of Willwear in a report that indicates all contaminated soils were remediated and based on 3 rounds of GW sampling in 3 monitoring wells showing target constituents below 2L.
5/12/06	MEH calls Roger Moore of ALPHA to get any site update since the 1999 report. Mr. Moore stated that he felt Kay couldn't move forward with anything due to unconfirmed status of plume on Drexel property and denial of access. Roger stated that Willwear property has been sold, and he believes Drexel is a vacant property at present.

1 PLUME OR CO-MINGLED Unknown

COMPLETED:

- soil contamination was excavated and remediated – appears complete
- 3 monitoring wells installed and sampled showing low levels of contaminants

PROBLEMS:

- Off-site plume migration and extent never confirmed – Drexel may now be a vacant property.
- Groundwater sampling at Willwear has not been done since 1999
- No confirmation that seepage at Drexel was due to Willwear spill.
- No idea on location of RP (Shogren)

AH!

ASK IN NOVS IF ANYONE HAS INFO.

NOV MAY ALSO STATE THAT NEED MONITORING FOR POTENTIAL CLOSURE? AS OPPOSED TO CSA ETC. LETS TALK

Drexel property had impact from heating oil/water coming from a drain pipe next to bulk storage bldg on Drexel property - no MW's ever installed on Drexel.

3 wells

MCCO
11940
WI WEAR HOSIERY MFG. CO.
MES 4/24/95

ALPHA
ENVIRONMENTAL SCIENCES INC.

April 10, 1995

Mr. Michael Streeter
N.C. Department of Environment, Health
and Natural Resources
Groundwater Section
59 Woodfin Place
Asheville, NC 28801

RE: Willwear Hosiery, Marion, North Carolina
Closure Report

Mr. Streeter:

Attached, please find the Closure Report for the Willwear Hosiery site in Marion, North Carolina.

Mr. Streeter, if you have any questions or need additional information, do not hesitate to call.

Sincerely,

Alpha Environmental Sciences, Inc.

Ken Berry

Ken Berry, EIT

KB/ng

cc: Mr. Charles McClung

RECEIVED
APR 24 1995
Groundwater Section
Asheville Regional Office

Corporate Office:
400 DELLWOOD ROAD, SUITE A-2, P.O. BOX 31
WAYNESVILLE, NC 28786 · 704-452-3449 · FAX 452-7828

Service Office:
WAPPOO EXEC. PARK, 105 WAPPOO CREEK DR., SUITE 4-A
CHARLESTON, SC 29412 · 803-795-1220 · FAX 795-1296

ALPHA
ENVIRONMENTAL SCIENCES INC.

UNDERGROUND STORAGE TANK

CLOSURE REPORT

MARION, NORTH CAROLINA

PREPARED FOR:

WILLWEAR HOSIERY
MARION, NORTH CAROLINA

Prepared By:

Alpha Environmental Sciences, Inc.
400 Dellwood Road, Building A, Suite 2
Post Office Box 31
Waynesville, NC 28786
(704)-452-3449

RECEIVED
APR 24 1995

APRIL, 1995

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I. Background

II. Field Activities

III. Site Investigation

IV. Laboratory Analysis Results

V. Conclusions

VI. Recommendations

ATTACHMENTS:

Appendix A - Site Plan

Appendix B - USGS Topographical Quadrangle Map

Appendix C - Laboratory Analysis Sheets

Appendix D - UST Closure Form

Appendix E - Certificate of Tank Disposal

I. BACKGROUND

The subject site is the Willwear Hosiery Manufacturing Plant located at 360 Blue Ridge Street in Marion, North Carolina. The site is owned by the Willwear Hosiery Manufacturing Company located in Concord, North Carolina. Alpha Environmental Sciences, Inc. was contracted to remove an 8,000-gallon underground tank and a 550-gallon aboveground tank and install an 8,000-gallon aboveground tank.

According to plant personnel, the underground tank had been installed in the early 1970's. There have been no known releases from the underground tank. There had been a release of fuel oil from the 550-gallon aboveground tank, and Alpha Environmental Sciences, Inc. is currently preparing a Comprehensive Site Assessment of the site.

II. FIELD ACTIVITIES

On **March 17, 1995**, Alpha Environmental Sciences, Inc. completed the installation of the new aboveground tank, and the underground storage tank was then scheduled to be removed on **March 22, 1995**. The Marion Fire Marshall was notified of the removal of the tank. Approximately 4,000 gallons of fuel oil was transferred to the new aboveground tank.

The tank was located approximately four feet below the surface of the ground. After the tank was removed, it was cleaned and inspected for visible leaks. The tank appeared to be in good condition, and no leaks were visible.

The soil that was excavated during the tank removal was not stained and did not contain an odor. Some soil contamination was found around the tank fill, and this soil was stockpiled. The excavated soil was primarily a sandy clay mixture.

III. SITE INVESTIGATION

After excavation and removal of the tanks, three (3) subsurface soil samples were taken from each tank void under the centerline of the soil. The soil samples were grab samples that were collected approximately 14 feet below the ground surface. The samples were collected using EPA protocol and placed in amber sampling jars with teflon lids. These samples were then marked as WW-S01, WW-S02, and WW-S03, placed in an ice-filled cooler, and delivered to EMSL Analytical Labs using EPA approved Chain-of-Custody.

The excavated soil was screened in the field with a Photoionization Detector (PID) for organic vapors. The PID was calibrated using isobutylene at 100 ppm in air prior to use. The PID was recalibrated after use to ensure accuracy. The soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) using EPA Method 8015 modified for gasoline and diesel range organics as required for UST closure by the N.C. Department of Environment, Health, and Natural Resources, DEM, Groundwater Division. The lab analysis was performed by EMSL Analytical Services. Their N.C. State Certification Number is 403.

Based on research performed by Alpha Environmental Sciences, Inc., there appears to be no nearby (within 1500 feet of the subject site) water supply wells currently being used. The factory and surrounding sites are supplied with city water. The immediate area was searched during a drive-by inspection, and no water supply wells were found within 1500 feet of the subject site.

IV. LABORATORY ANALYSIS RESULTS

The soil samples were sent to EMSL labs and were analyzed for TPH using EPA Method 8015 modified GRO and DRO. The laboratory results are listed in the table below. Soil sample locations are shown on the Site Map.

SOIL SAMPLE RESULTS

Sample Location	Depth	GRO Results (mg/kg)	DRO Results (mg/kg)
WW-S01	14'	< 1	< 3
WW-S02	14'	< 1	< 3
WW-S03	14'	< 1	< 3

V. CONCLUSIONS

Laboratory analysis results for the soil samples indicate contamination levels below the regulated level of 10 ppm TPH as required by the N.C. Department of Environment, Health, and Natural Resources, DEM Groundwater Section.

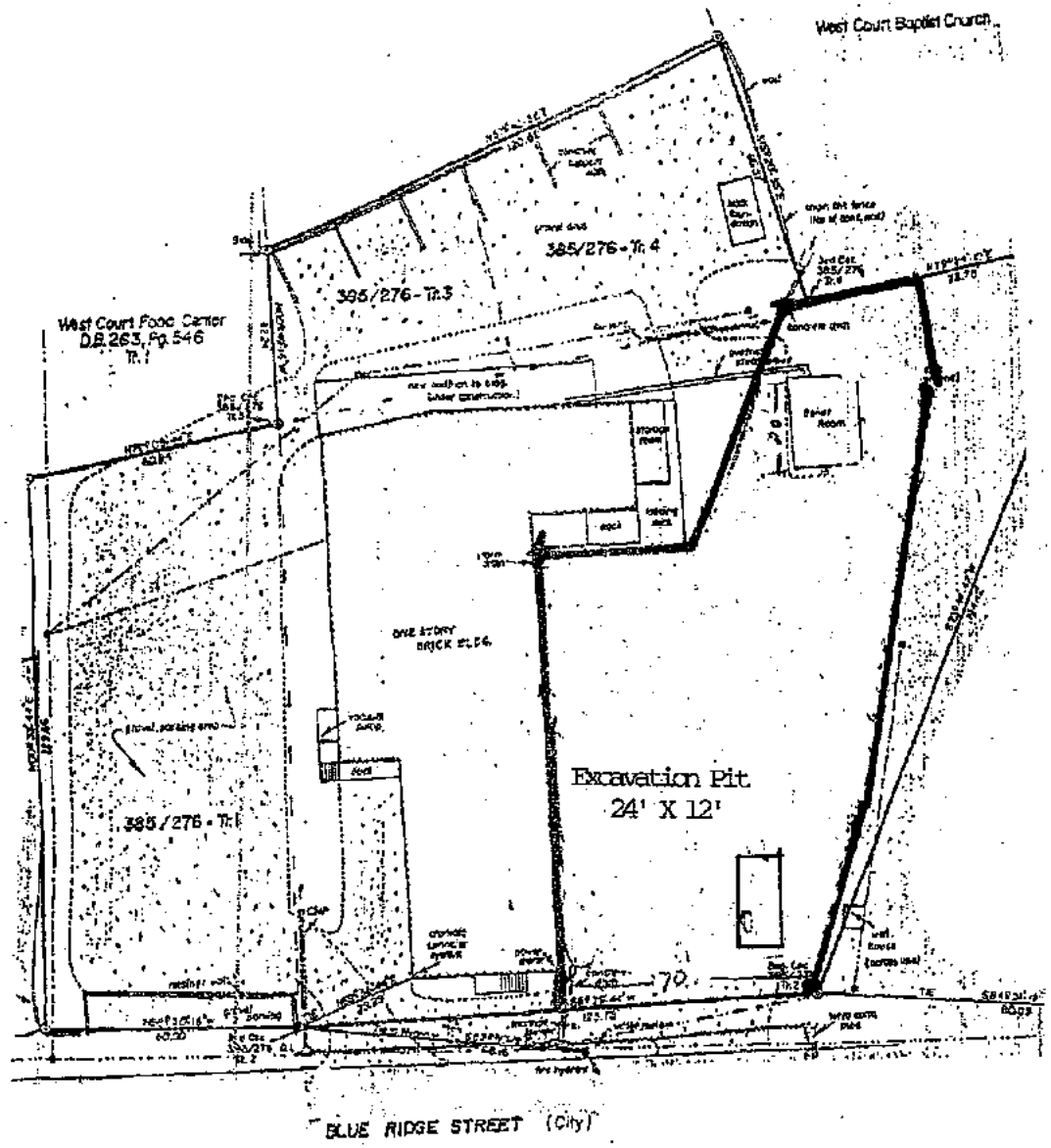
Some contaminated soil was removed from around the tank fill, and the soil was stockpiled with the soil that was contaminated and previously stockpiled from the earlier fuel oil release from the aboveground tank. This soil was remediated on site by SRI, Inc., and documentation for this will be included in the Comprehensive Site Assessment.

VI. RECOMMENDATIONS

N.C. Department of Environment, Health, and Natural Resources, DEM, Groundwater Section at 59 Woodfin Place, Asheville, North Carolina needs to be notified as to the results of this closure report.

APPENDIX A

SITE PLAN



N

Willwear Hosiery Manufacturing Marion, North Carolina	
Site Overview	
Scale:	ALPHA Environmental Sciences, Inc.
Drawn By: KMB	
Date: 4/12/95	Drawing No. WH - 01

ALPHA
ENVIRONMENTAL SCIENCES INC.

SOIL REMEDIATION REPORT

WILLWEAR HOSIERY

MARION, NORTH CAROLINA

PREPARED FOR:

WILLWEAR HOSIERY
MARION, NORTH CAROLINA

Prepared By:

Alpha Environmental Sciences, Inc.
400 Dellwood Road, Building A, Suite 2
Post Office Box 31
Waynesville, NC 28786
(704)-452-3449

MAY, 1995

RECEIVED
MAY 2 3 1995
Groundwater Section
Asheville Regional Office

MCCO
11940
WILLWEAR HOSIERY MFG. CO.
ES 5/23/95

ALPHA
ENVIRONMENTAL SCIENCES INC.

May 8, 1995

Mr. Charles McClung
Willwear Hosiery Mills, Inc.
2000 Stuart Street
Chattanooga, TN 37406-0098

RE: Willwear Hosiery, Marion, North Carolina
Soil Remediation Report

Mr. McClung:

Attached, please find the Soil Remediation Report for the Willwear Hosiery site in Marion, North Carolina.

Mr. McClung, if you have any questions or need additional information, do not hesitate to call.

Sincerely,

Alpha Environmental Sciences, Inc.

Ken Berry, EIT

KB/ng

cc: Mr. Michael Streeter

RECEIVED
MAY 23 1995
Groundwater Section
Asheville Regional Office

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BACKGROUND

FIELD ACTIVITIES

ATTACHMENTS:

LABORATORY ANALYSIS SHEET

BACKGROUND

The subject site is the Willwear Hosiery Manufacturing Plant located at 360 Blue Ridge Street in Marion, North Carolina. The site is owned by the Willwear Hosiery Manufacturing Company located in Concord, North Carolina.

A spill of an undetermined amount of #2 Fuel Oil at the site prompted the North Carolina Department of Environment, Health, and Natural Resources to issue a Notice of Violation for the site on **March 24, 1994**. Alpha Environmental Sciences, Inc. was contracted by Willwear Hosiery to complete a Comprehensive Site Assessment (CSA) on the site, remove a 8,000-gallon underground storage tank and a 550-gallon aboveground storage tank, and remediate the contaminated soil on the site.

FIELD ACTIVITIES

On **March 22, 1995**, Alpha Environmental Sciences, Inc. arrived on site to remove both the 8,000-gallon UST and the 550-gallon AST. Also, Alpha Environmental Sciences had arranged for the contaminated soil to be treated on the site at that time by SRI, Inc.

During the tank excavations, the soil was screened with a Photoionization Detector (PID) for organic vapors. The PID was calibrated using isobutylene at 100 ppm in air prior to use. The PID was recalibrated after use to ensure accuracy. Any screened soil that indicated elevated levels of contamination, was stockpiled for remediation.

Some contaminated soil was found around the tank fill pipe and along the product lines. Considerable contamination was found in the soil under the aboveground tank. This soil was excavated and stockpiled to be remediated.

SRI, Inc. arrived on the site on **March 22, 1995**, and began thermally remediating the contaminated soil. A total of 294 tons of soil was remediated at the site. This soil was then used for backfill at the site. A composite sample was taken from the remediated soil, and lab results indicated that it was below N.C. Department of Environment, Health, and Natural Resources, State Guidelines.

A Comprehensive Site Assessment is currently being completed on the site. The CSA will define the soil and groundwater contamination extent and will be submitted to the N.C. Department of Environment, Health, and Natural Resources to determine if any additional work is required.

LABORATORY ANALYSIS

SHEET

26 LOADS
WILLOWRA HOSIERY
MARION N.C.
ALPHA ENV.

SRI

Soil Remediation Log

Date	Time In	Time Out	Total Time	Box	Comments
3-22-95	10:00	12:00	2:00	F	NEW FILTRS INSTALLED
3-22-95	12:00	2:00	2:00	B	
3-22-95	2:00	4:00	2:00	F	
3-22-95	4:00	6:00	2:00	B	
3-22-95	7:00	9:00	2:00	F	
3-23-95	9:00	11:00	2:00	B	
3-23-95	11:00	1:00	2:00	F	
3-23-95	1:00	3:00	2:00	B	
3-23-95	3:00	5:00	2:00	F	
3-23-95	5:00	7:00	2:00	B	
3-24-95	6:00	8:00	2:00	F	
3-24-95	8:00	10:00	2:00	B	
3-24-95	10:00	12:00	2:00	F	
3-24-95	12:00	2:00	2:00	B	
3-24-95	2:00	4:00	2:00	F	
3-24-95	4:00	6:00	2:00	B	2 OIL X INSTALLED
3-27-95	7:00	9:00	2:00	F	
3-27-95	9:00	11:00	2:00	B	
3-27-95	11:00	1:00	2:00	F	
3-27-95	1:00	3:00	2:00	B	
3-27-95	3:00	5:00	2:00	F	
3-27-95	5:00	7:00	2:00	B	
3-28-95	6:00	8:00	2:00	F	
3-28-95	8:00	10:00	2:00	B	
3-28-95	10:00	12:00	2:00	F	
3-28-95	12:00	2:00	2:00	B	
3-28-95	2:00	4:00	2:00	F	
3-28-95	4:00	6:00	2:00	B	

Blue Ridge Labs
P.O. Box 8940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 758-0149

CLIENT: SRI Remediation
P.O. Box 1543
Rutherfordton, NC 28139

Attention: Mr. M. Parks

DATE RECEIVED: March 29, 1995

DATE REPORTED: March 30, 1995

SAMPLE NUMBER	SAMPLE DESCRIPTION
503-0515	Soil; Alpha for 5030/3550.

PARAMETER	RESULTS	MOL		DATE STARTED
503-0515 - 5030	*	1.0	mg/kg	03/30/95
3550	*	5.0	mg/kg	03/30/95

REPORTED BY: _____
D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

mes

ALPHA
ENVIRONMENTAL SCIENCES INC.

RECEIVED
AUG 18 1999
UST SECTION
ASHEVILLE REGIONAL OFFICE

August 11, 1999

NC DENR
Asheville Regional Office
DWM-UST Section
Interchange Building, 59 Woodfin Place
Asheville, NC 28801

Attention: Mr. Michael Streeter, P.G.

RE: Request for Closure of the Former Willwear Hosiery Facility, Marion, North Carolina, AES Project #8401.01

Dear Mr. Streeter:

Alpha Environmental Sciences, Inc. has been monitoring groundwater contamination levels over the past nine (9) months at the above referenced facility with the intent to request closure of the site with regard to the groundwater contamination from the petroleum release which occurred back in 1994. Three (3) shallow monitoring wells were previously installed at the site, upon completion of soil clean up. All three (3) wells were purged and sampled in September of 1998. The monitoring well identified as MW-1 showed low level volatile organic compounds as well as naphthalene. Samples were again collected from MW-1 in March, 1999 and June, 1999 in order to monitor the natural attenuation of the contamination. As of the June sampling event, no petroleum hydrocarbon contamination exceeds the 2L Groundwater Standards; therefore, we request closure of the site and groundwater incident with no further action required. Please find attached a diagram showing the locations of the shallow monitoring wells, a table showing the analytical results over the past nine (9) months and a copy of the laboratory analytical results from the groundwater analyses. Should you have any question with regard to the information contained in this letter or the attachments, please do not hesitate to contact us. We would appreciate your immediate attention to this matter and look forward to hearing from you very soon.

Respectfully submitted,

Alpha Environmental Sciences, Inc.

Roger D. Moore

Roger D. Moore, P.G.
Professional Geologist/Division Manager

RDM/dps

PROFESSIONAL ENVIRONMENTAL CONSULTING
Engineering Services Provided by Alpha Engineering Services, PA

Corporate Office: *www.alphaenviron.com* *Service Office:*
367 Dellwood Rd., Suite A-2 Post Office Box 31 660 Riverland Drive, Unit B
Waynesville, NC 28786 • (828) 452-3449 / Fax (828) 452-7828 Charleston, SC 29412 • (843) 795-1220 / Fax (843) 795-1296

VOLATILE ORGANIC COMPOUNDS
WILLWEAR HOSIERY FACILITY
MARION, NORTH CAROLINA
AES PROJECT #8401.01

Analytes in Parts Per Billion

SAMPLE DATE	WELL #	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
8/24/98	MW-1	8.64	9.78	32	167
	MW-2	ND	ND	ND	ND
	MW-3	ND	ND	ND	ND
3/10/99	MW-1	5.51	2.08	15.7	68.6
7/19/99	MW-1	ND <5	ND	11	46
	NCAC				
	2L				
	STANDARD	1.0	29	1000	530

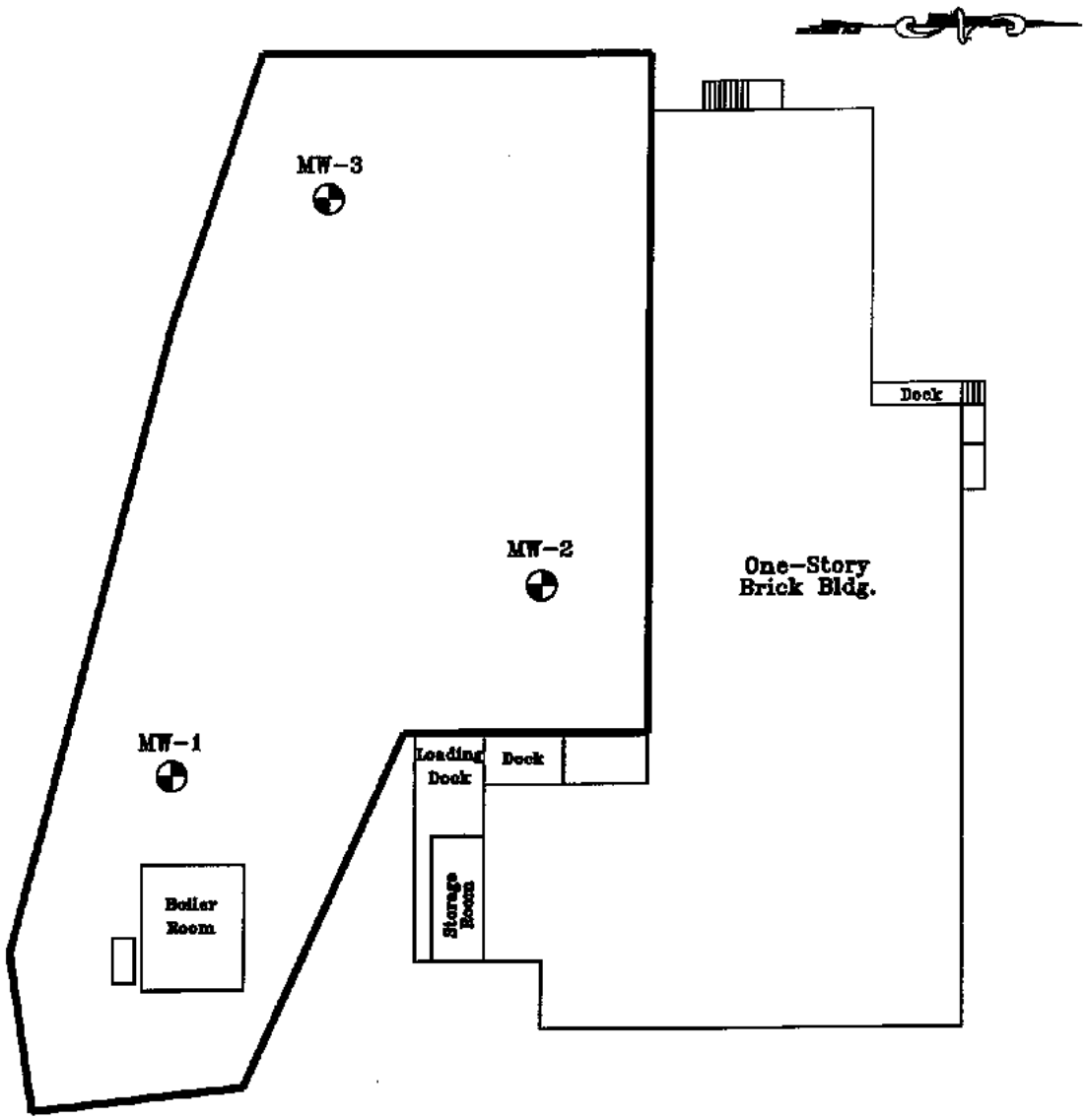
ND=Not Detected

SEMI-VOLATILE ORGANIC COMPOUNDS
WILLWEAR HOSIERY FACILITY
MARION, NORTH CAROLINA
AES PROJECT #8401.01

Analytes in Parts Per Billion (Detected Compounds)

SAMPLE DATE	WELL #	ACENAPHTHENE	FLUORENE	NAPHTHALENE	PHENANTHRENE
8/24/98	MW-1	ND	2.3	23.9	2.4
	MW-2	3.6	5.9	ND	4.2
	MW-3	ND	ND	ND	ND
7/19/99	MW-1	NT	NT	12	NT
	NCAC				
	2L				
	STANDARD	80 (I)	280 (P)	21(P)	210(P)

ND=Not Detected
NT=Not Tested (Already Below 2L Standards)
I=Interim Groundwater Standard
P=Permanent Groundwater Standard



FORMER WILLWEAR HOSIERY MARION, NC	
MONITORING WELL LOCATION DIAGRAM AES #8401.01	
SCALE: 1"=30'	ALPHA Environmental Sciences, Inc.
DRAWN BY: MJS	
DATE: 8/17/99	FIGURE 1

CONESTOGA-ROVERS
& ASSOCIATES

1801 Old Highway 8 N.W., Ste. #114, St. Paul, MN 55112
Telephone: 651·639·0913 Facsimile: 651·639·0923
www.CRAworld.com

STATE FILE

August 31, 2006

Reference No. 38497

Mr. John W. Walch
Inactive Hazardous Sites Branch
NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RECEIVED
SEP 0 4 2006
SUPERFUND SECTION

Dear Mr. Walch:

Re: Rock-Tenn Company: Marion Folding Groundwater Monitoring
Marion, North Carolina

As requested in your letter dated April 21, 2006 to Ms. Carla Bachunas of Rock-Tenn Company (RTC), Conestoga-Rovers & Associates (CRA) has completed a sampling and analysis round of the four monitoring wells located at the Marion Folding facility. The scope of work consisted of the following:

- measuring of static water levels in each monitoring well prior to purging groundwater from each well;
- purging of each groundwater monitoring well a minimum of three standing volumes in the well prior to collection of a groundwater sample;
- collection of one unfiltered groundwater sample from each well with placement in a sampling container preserved with nitric acid;
- analysis of each groundwater sample and a duplicate sample for the hazardous substance list metals identified in paragraph A.7.1 of North Carolina Department of Environment and Natural Resources (NCDENR) requirements including antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc;
- completion of an elevation survey to the nearest 0.01 feet at each of the four monitoring wells; and
- inquiries with the City of Marion municipal offices regarding the historic use of sewers/septic systems in the area of the plant.

All samples were collected in accordance with the scope of work described above with analyses completed by Severn-Trent Laboratories located in Charlotte, North Carolina. A summary of samples collected from the monitoring wells is included as Table 1.

In accordance with Paragraph 4.1.2 of North Carolina Administrative Code Title 15A, CRA compared the analytical results to the permanent and interim groundwater standards

established in 15A NCAC 2L.0202 groundwater quality standards. Three of the metals analyzed, antimony, beryllium, and thallium do not have interim or permanent standards under the North Carolina groundwater quality standards. For those parameters, CRA utilized the lowest of maximum contaminant levels (MCLs), non-zero MCL Goal (MCLG), or the most current Preliminary Remediation Goal (PRG) for tap water from Region IX of USEPA. For the three parameters not included in the NCDENR tables (antimony, beryllium, and thallium), the lowest criteria were the MCLGs. Based on the analytical results, manganese was the only parameter detected at concentrations above the respective criterion, with concentrations ranging from 22.3 to 9400 µg/L. Antimony was also detected in the four wells at estimated concentrations ranging from 4.3 to 6.3 µg/L. While the MCL for antimony is 6 µg/L, all the concentrations are consistent and appear to represent background conditions. A summary of analytical results is provided in Table 2. Laboratory reports are included as Attachment 1.

Based on the water levels and the surveyed elevations of the monitoring wells, the general groundwater flow at the Site is from northwest to southeast, with some variation along the eastern portion of the Site in proximity to the MW-3 and MW-4. A groundwater contour map based on the water levels measured is included as Figure 1. Based on the groundwater flow pattern, the higher concentration of manganese detected in the MW-3 would appear to be coming from the northeast of the Site; however, the concentration in MW-4 was significantly lower than the concentration of MW-3. Based on information related to on-Site activities, there is no known use of manganese associated with Marion Folding or previous operations. Based on information on the North Carolina Geological Survey web site, manganese is common in western North Carolina and is even mined at two locations in McDowell County.

According to information provided by the City of Marion, Department of Public Works, the Site has likely been connected to the City sewer since initial development in 1929. Based on communications with department personnel, the oldest municipal wastewater treatment facility was likely in service at the time of the initial construction of the Marion Folding facility. Due to the proximity of the Site to the city's first wastewater treatment plant and location of the Site within the older and more established downtown area, it is believed that the facility has been connected to the city sanitary sewer system since inception. However, departmental review of the water and sanitary system records indicate the oldest existing records reference back to only 1985. Department staff members indicate that a shredding company was contracted for records disposal and all prior water and wastewater billing and other records have been destroyed as a result. Similarly, the facility has changed ownership several times over the years and early records are not known to exist nor has there been a known transfer of such records with the changes in ownership.

CONCLUSIONS

Based on the water levels and surveyed well elevations at the four monitoring well locations, groundwater underlying the Site generally flows from northwest to southeast. Based on the concentrations of parameters detected in the monitoring wells, there does not appear to be any impact to the groundwater underlying the Site as a result of Marion Folding or previous Site operations.

If you have any questions or require additional information, please contact the undersigned at (651) 639-0913.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian C. Boevers

BCB/jm/1
Enc.
c.c. Carla Bachunas; RTC

TABLE 1

SAMPLING SUMMARY
ROCK-TENN COMPANY - MARION FOLDING
MARION, NC
August 1 & 2, 2006

Location	*Sample ID*	*Well Depth (feet)*	*Water Level*	*Volume Water Removed (gallons)*
MW-1	GW080106TV01A	18.02	1393.95	4.5
MW-2	GW080206JTV02A	18.10	1389.68	8.5
MW-2 (Duplicate)	GW080206JTV02A DUP1	18.10	1389.68	8.5
MW-3	GW080206JTV03A	17.36	1386.67	4.5
MW-4	GW080206JTV04A	15.46	1392.78	4.5

TABLE 2

GROUNDWATER MONITORING ROUND
ROCK-TENN COMPANY - MARION FOLDING
MARION, NC
August 2006

Analyte	*Criteria* [1]	*Unit*	*MW-1 GW080106JTV01A 8/1/06*	*MW-2 GW080206JTV02A 8/2/06*	*MW-2 (Dup) 080206JTV02DUP1 8/2/06*	*MW-3 GW080206JTV03A 8/2/06*	*MW-4 GW080206JTV04A 8/2/06*
Antimony	6[2]	ug/L	6.1 J	4.3 J	4.7 J	5.1 J	6.3 J
Arsenic	50	ug/L	< 10	< 10	< 10	< 10	< 10
Beryllium	4[2]	ug/L	< 5	< 5	< 5	< 5	< 5
Cadmium	1.75	ug/L	0.049 J	< 1	0.05 J	0.75 J	0.038 J
Chromium Total	50	ug/L	< 10	< 10	< 10	< 10	< 10
Copper	1000	ug/L	< 5	< 5	< 5	< 5	< 5
Lead	15	ug/L	< 3	< 3	< 3	< 3	< 3
Manganese	50	ug/L	**60.1**	**22.3**	**146**	**9400**	**136**
Mercury	1.05	ug/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	100	ug/L	< 40	< 40	< 40	< 40	< 40
Selenium	50	ug/L	< 5	3.2 J	< 5	< 5	< 5
Silver	17.5	ug/L	< 5	< 5	< 5	0.77 J	< 5
Thallium	0.5[2]	ug/L	0.087 J	0.029 J	0.04 J	0.016 J	0.019 J
Zinc	1050	ug/L	65.3	9.9 J	14.5 J	6.9 J	14.3 J

Notes:
J - Estimated result (detected below reporting limit).
1 - Permanent or interim standard established under 15A NCAC 2L.0202.
2 - U.S. EPA Maximum Contaminant Level Goals.

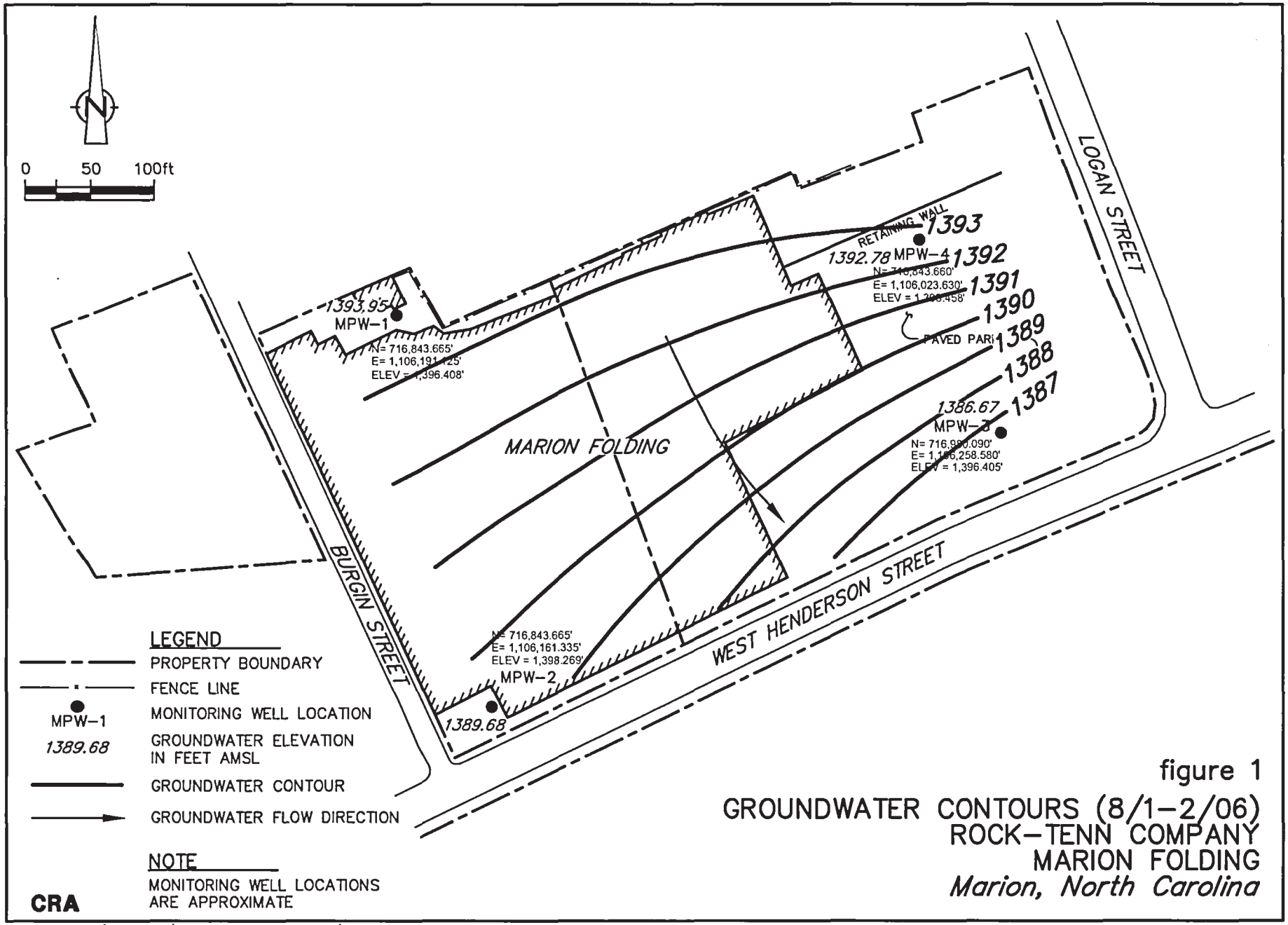


figure 1

GROUNDWATER CONTOURS (8/1-2/06)
ROCK-TENN COMPANY
MARION FOLDING
Marion, North Carolina

38497-00(MISC007)GN-SP002 AUG 29/2006

Appendix IV: Historical Research Documentation

Blue Ridge Street

Blue Ridge Street

Marion, NC 28752

Inquiry Number: 7146273.8

October 17, 2022

The EDR Aerial Photo Decade Package

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Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

10/17/22

Site Name:

Blue Ridge Street
Blue Ridge Street
Marion, NC 28752
EDR Inquiry # 7146273.8

Client Name:

ECS Southeast, LLP
1900 Hendersonville Road
Ashville, NC 28803
Contact: Jennifer Brumbaugh

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=500'	Acquisition Date: January 01, 1993	USGS/DOQQ
1988	1"=500'	Flight Date: May 26, 1988	USDA
1984	1"=500'	Flight Date: April 25, 1984	USGS
1978	1"=500'	Flight Date: March 18, 1978	USGS
1975	1"=500'	Flight Date: April 01, 1975	USGS
1964	1"=500'	Flight Date: October 22, 1964	USGS
1961	1"=500'	Flight Date: August 29, 1961	USGS
1955	1"=500'	Flight Date: March 30, 1955	USGS
1950	1"=500'	Flight Date: November 14, 1950	USGS
1947	1"=500'	Flight Date: February 11, 1947	USGS
1940	1"=500'	Flight Date: January 01, 1940	FirstSearch

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YEAR: 2012
= 500'
N
EDR


INQUIRY #: 7146273.8
YEAR: 2009
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N
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INQUIRY #: 7146273.8

YEAR: 2006

= 500'

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INQUIRY #: 7146273.8

YEAR: 1998

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YEAR: 1993

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YEAR: 1988

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YEAR: 1984

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Subject boundary not shown because it e



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YEAR: 1978

= 500'

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YEAR: 1975

= 500'

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YEAR: 1964

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YEAR: 1961

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YEAR: 1955

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YEAR: 1950

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INQUIRY #: 7146273.8

YEAR: 1947

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INQUIRY #: 7146273.8

YEAR: 1940

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Blue Ridge Street

Blue Ridge Street

Marion, NC 28752

Inquiry Number: 7146273.3

October 17, 2022

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Client Name:

ECS Southeast, LLP
1900 Hendersonville Road
Ashville, NC 28803
Contact: Jennifer Brumbaugh

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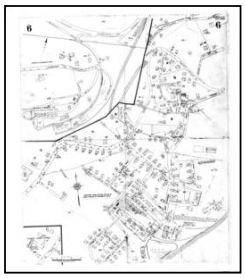
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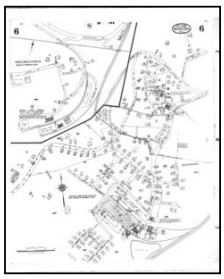


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1956

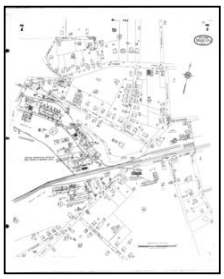


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1939 Source Sheets

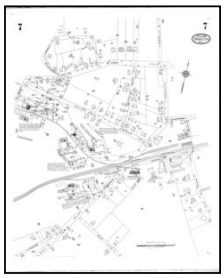


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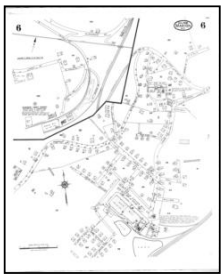


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1939

1928 Source Sheets

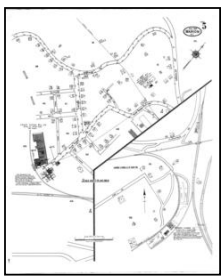


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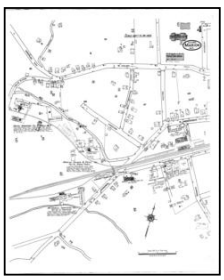


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1922 Source Sheets



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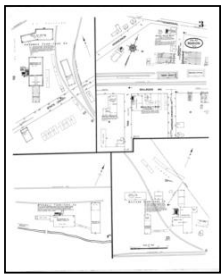


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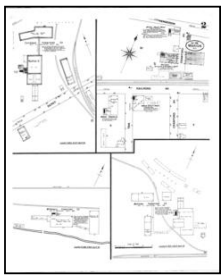
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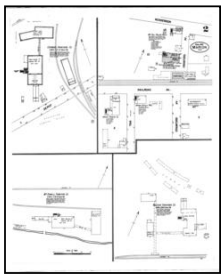
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1908 Source Sheets

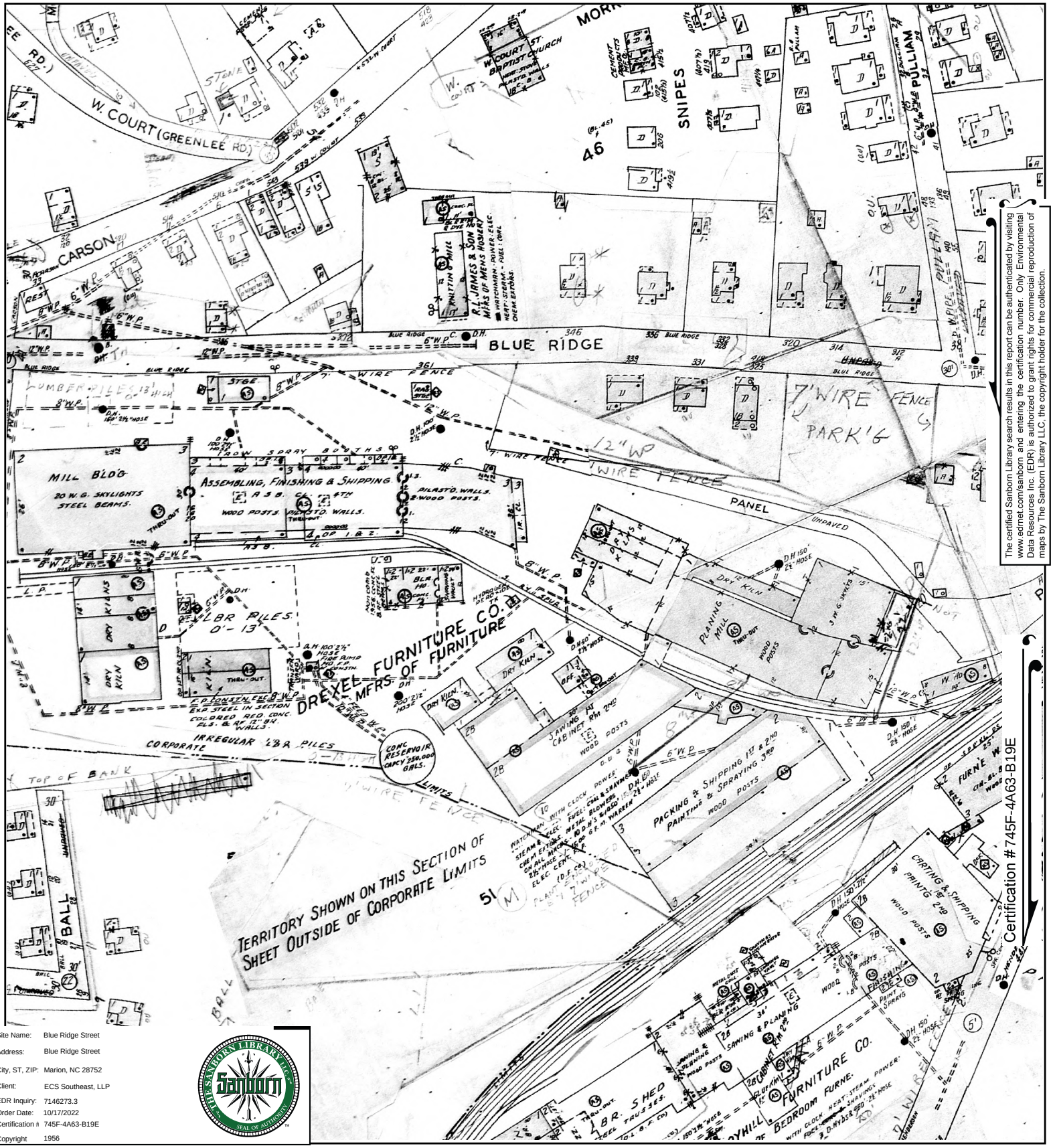


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1902 Source Sheets



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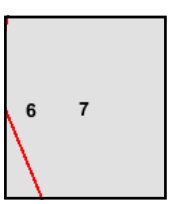


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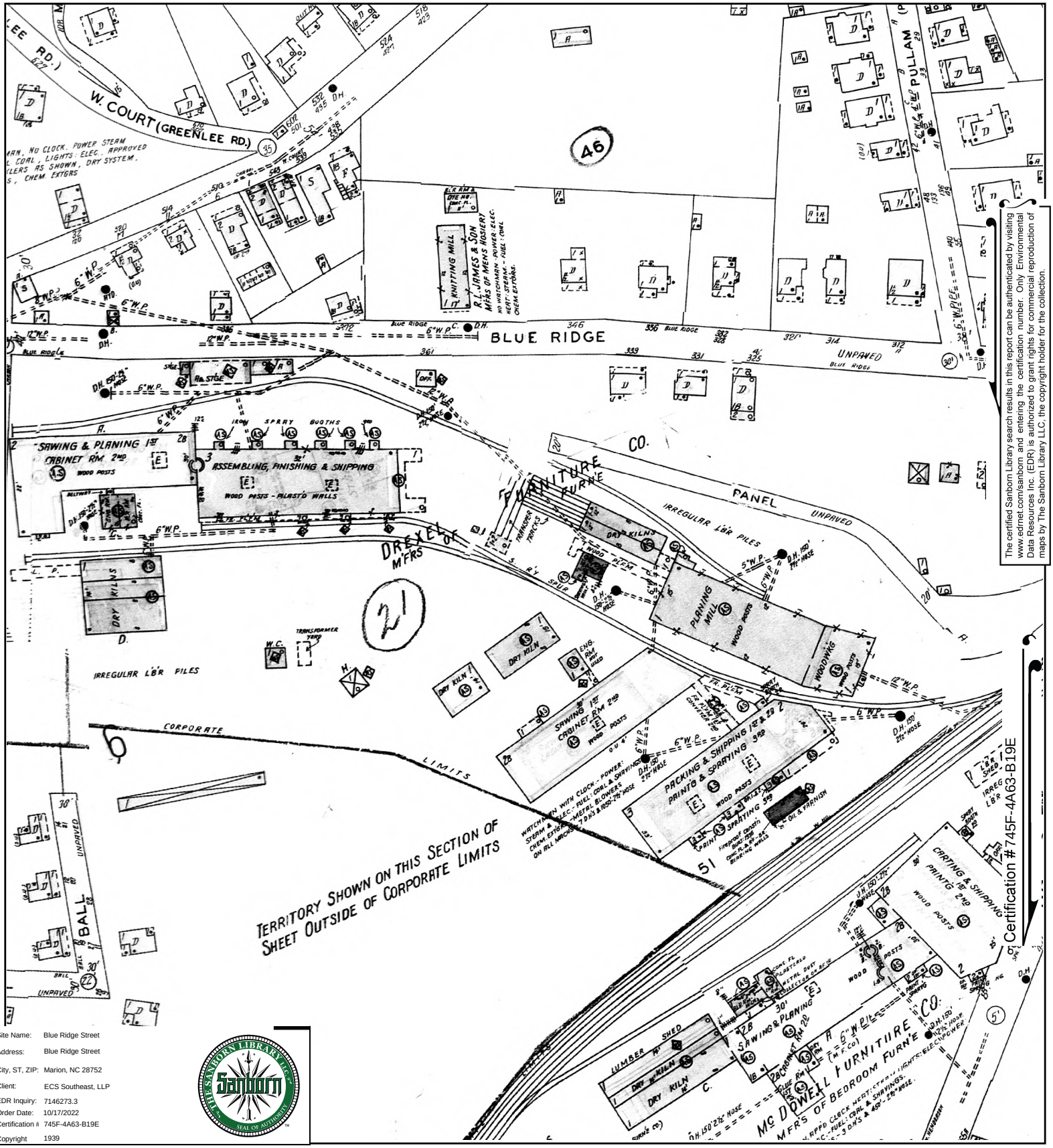




Volume 1, Sheet 6
Volume 1, Sheet 7

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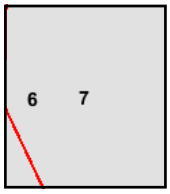
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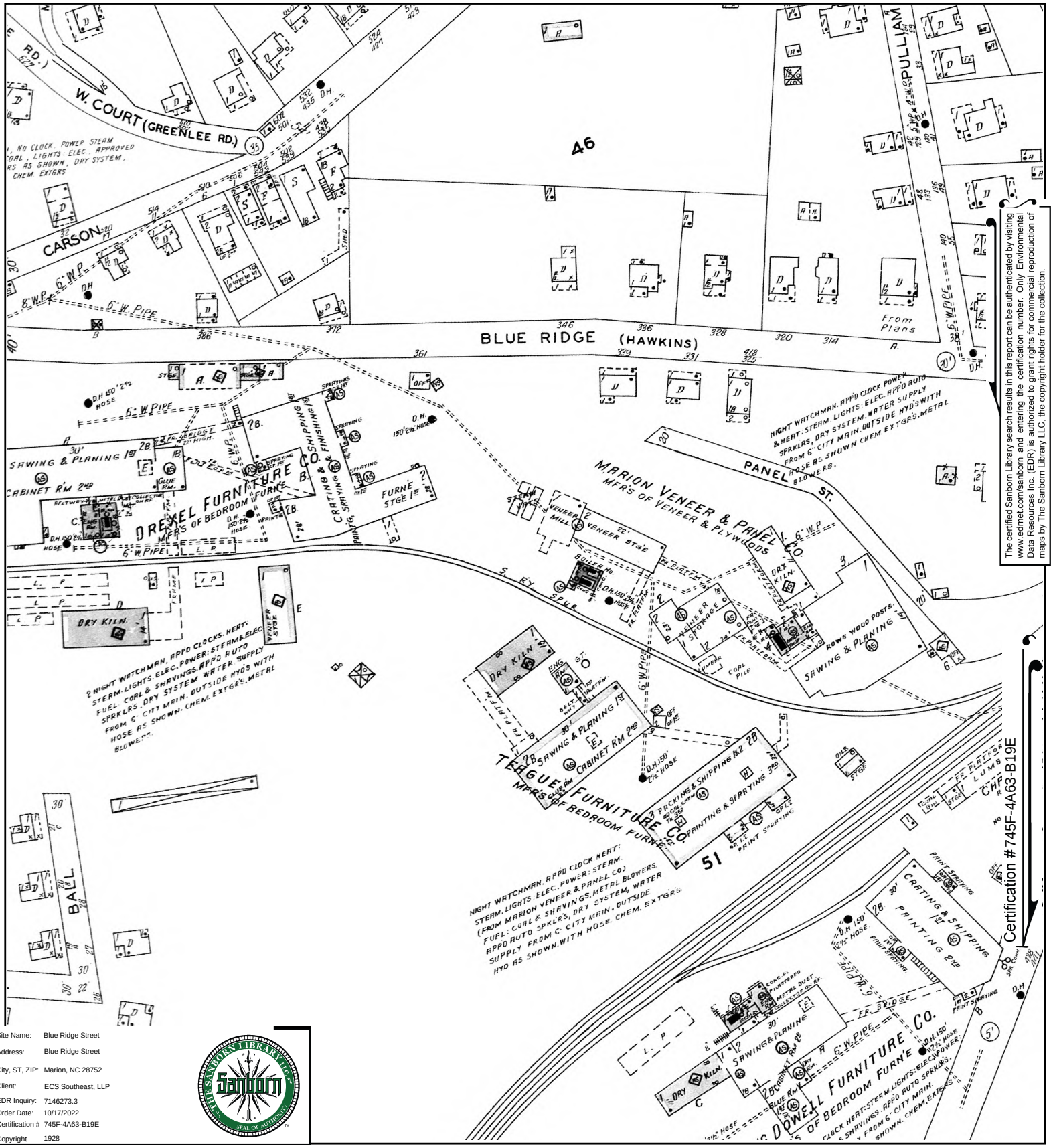




Volume 1, Sheet 7
Volume 1, Sheet 6

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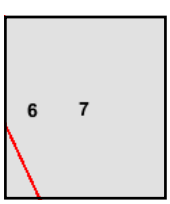


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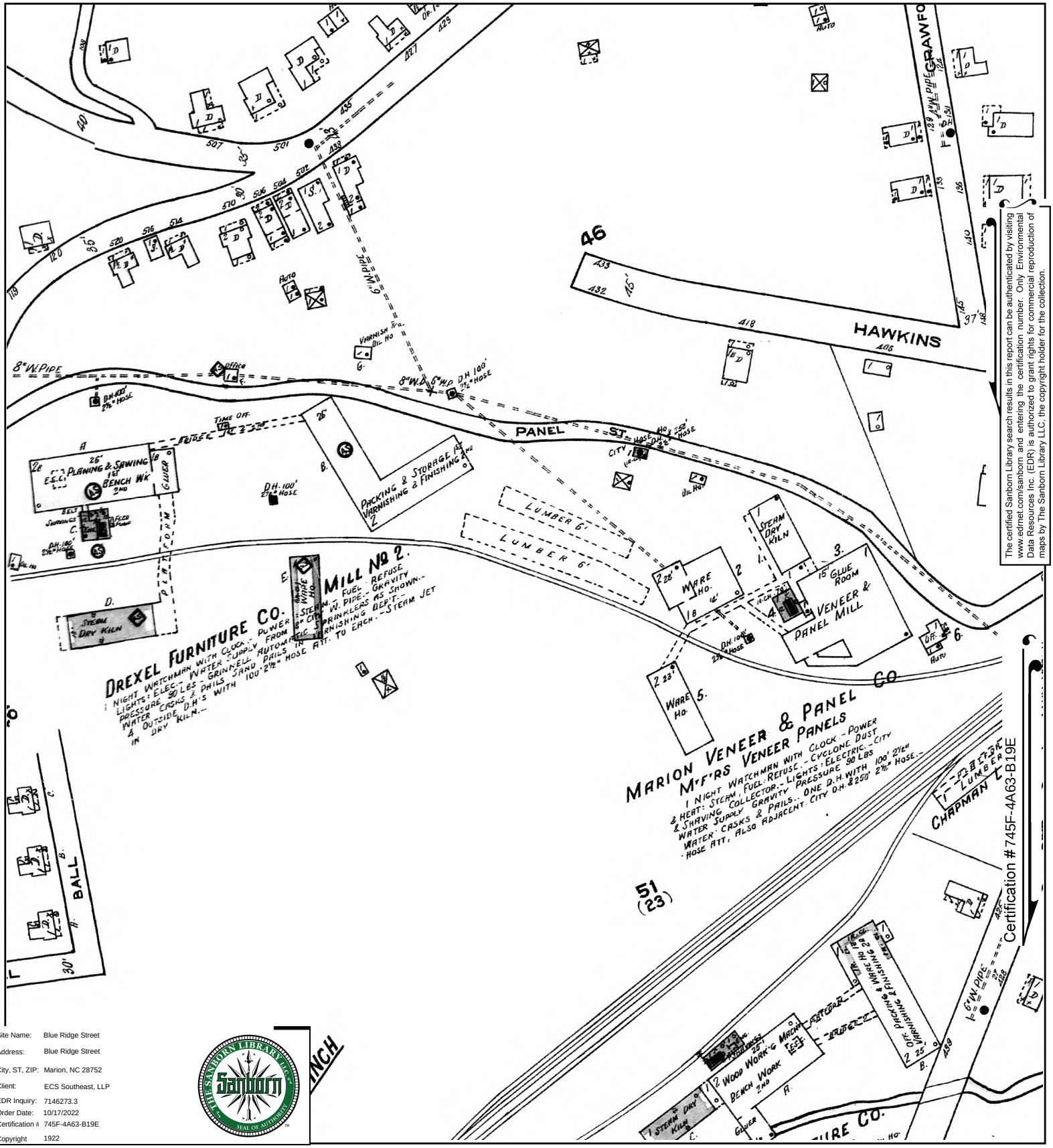




Volume 1, Sheet 6
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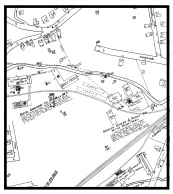


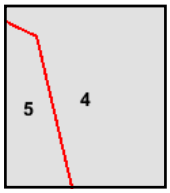
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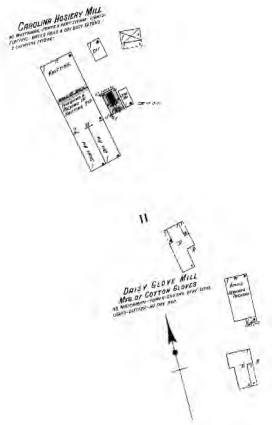




Volume 1, Sheet 4
Volume 1, Sheet 5

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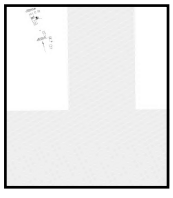


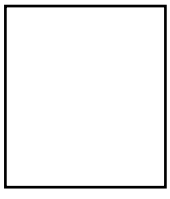
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Certification #745F-4A63-B19E

Site Name:	Blue Ridge Street
Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
Order Date:	10/17/2022
Certification #	745F-4A63-B19E
Copyright	1918

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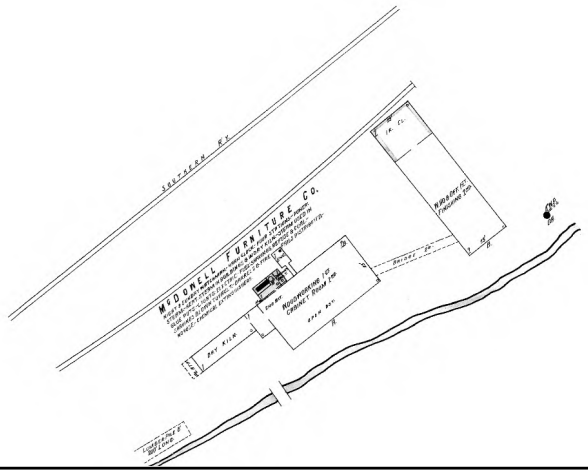
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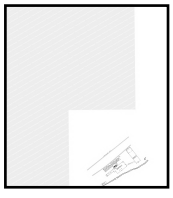
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Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright 1913

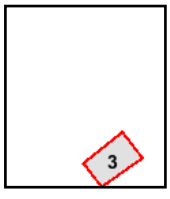
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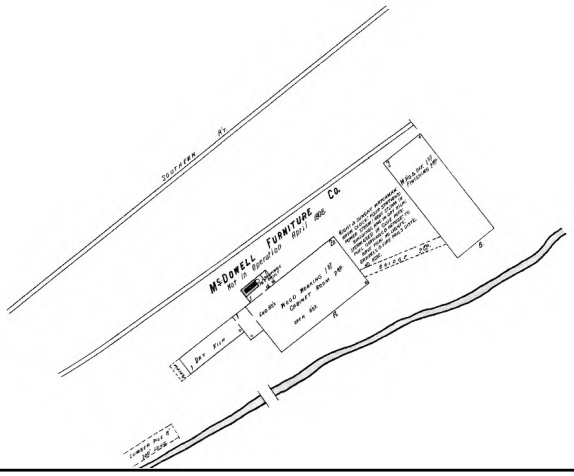
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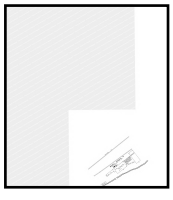
Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright 1908

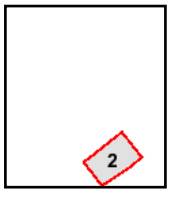
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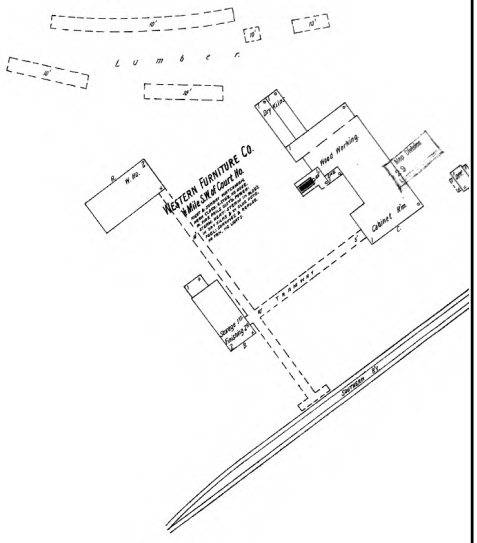
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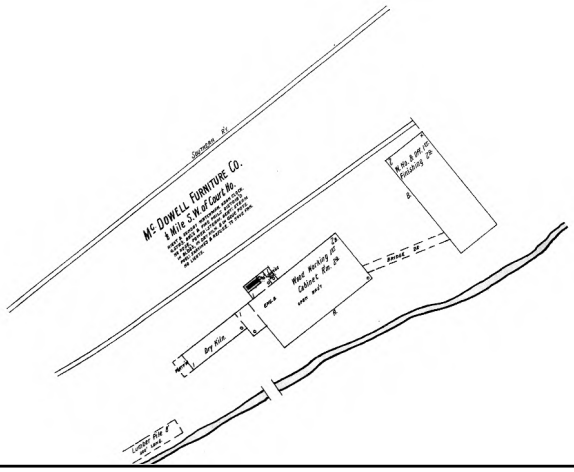
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Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright 1902

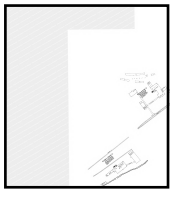
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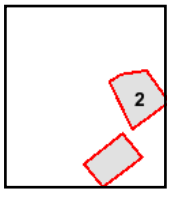
Certification # 745F-4A63-B19E





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Volume 1, Sheet 2

0 Feet 150 300 600

N

Blue Ridge Street

Blue Ridge Street

Marion, NC 28752

Inquiry Number: 7146273.3

October 17, 2022

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/17/22

Site Name:

Blue Ridge Street
Blue Ridge Street
Marion, NC 28752
EDR Inquiry # 7146273.3

Client Name:

ECS Southeast, LLP
1900 Hendersonville Road
Ashville, NC 28803
Contact: Jennifer Brumbaugh

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Certified Sanborn Results:

Certification # 745F-4A63-B19E

PO # 18711

Project Former Drexel Mill Property

Maps Provided:

1956
1939
1928
1922

Sanborn® Library search results

Certification #: 745F-4A63-B19E

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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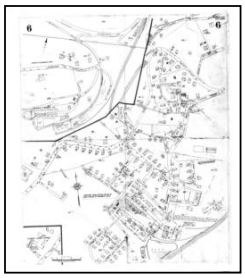
Sanborn Sheet Key

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1956 Source Sheets

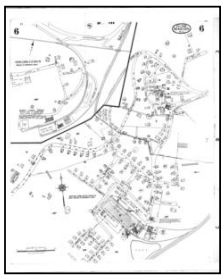


Volume 1, Sheet 7
1956

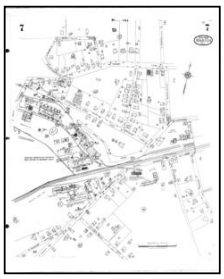


Volume 1, Sheet 6
1956

1939 Source Sheets

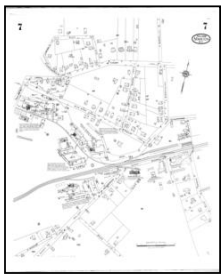


Volume 1, Sheet 6
1939

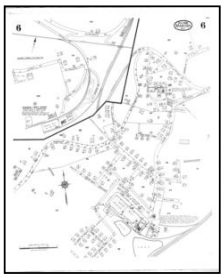


Volume 1, Sheet 7
1939

1928 Source Sheets

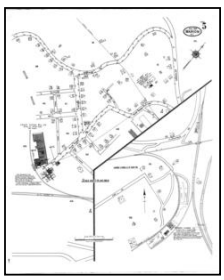


Volume 1, Sheet 7
1928

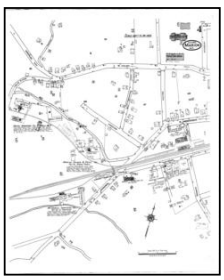


Volume 1, Sheet 6
1928

1922 Source Sheets



Volume 1, Sheet 5
1922

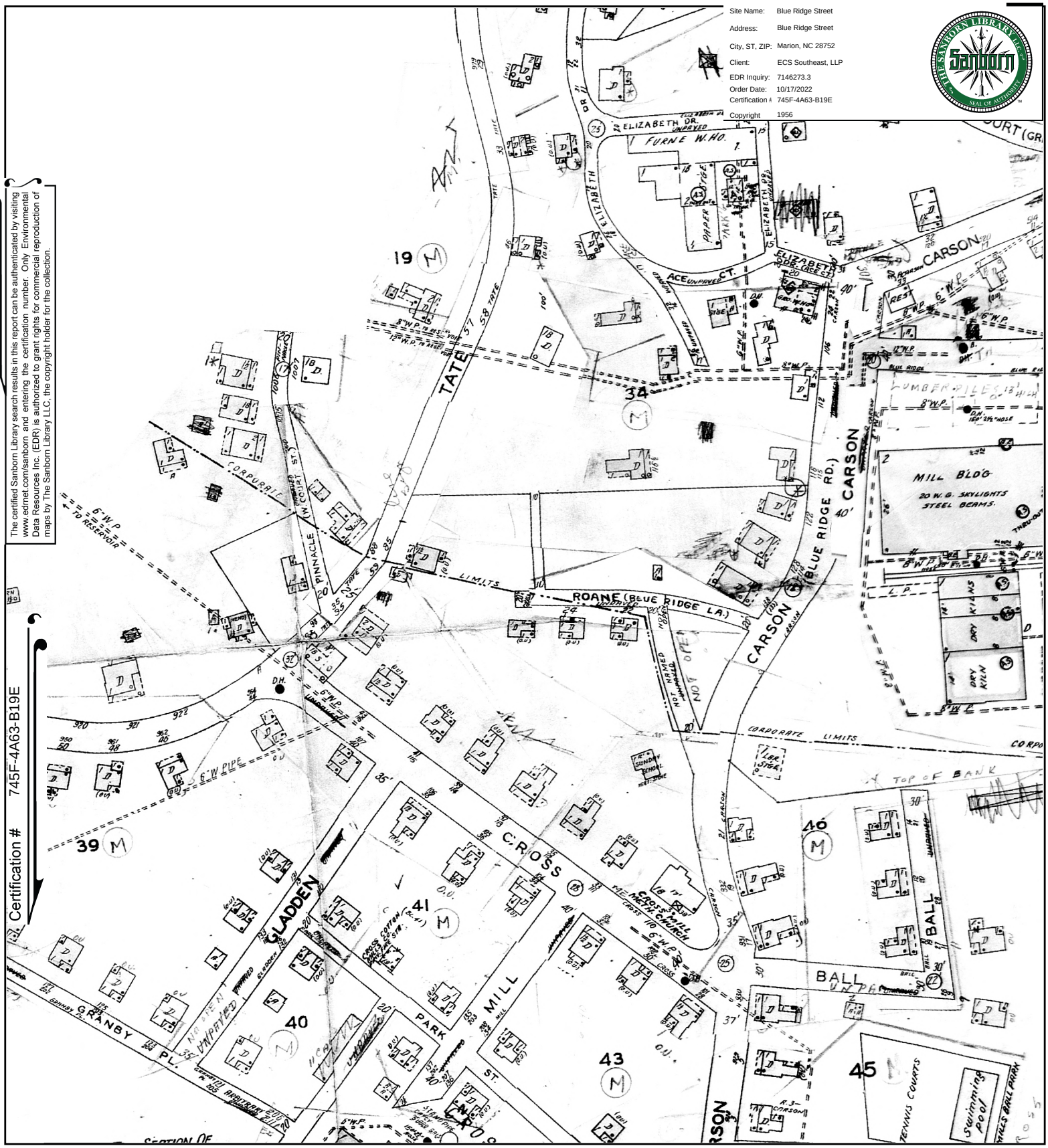


Volume 1, Sheet 4
1922

Site Name:	Blue Ridge Street
Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
Order Date:	10/17/2022
Certification #:	745F-4A63-B19E
Copyright	1956

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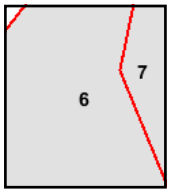
Certification # 745F-4A63-B19E



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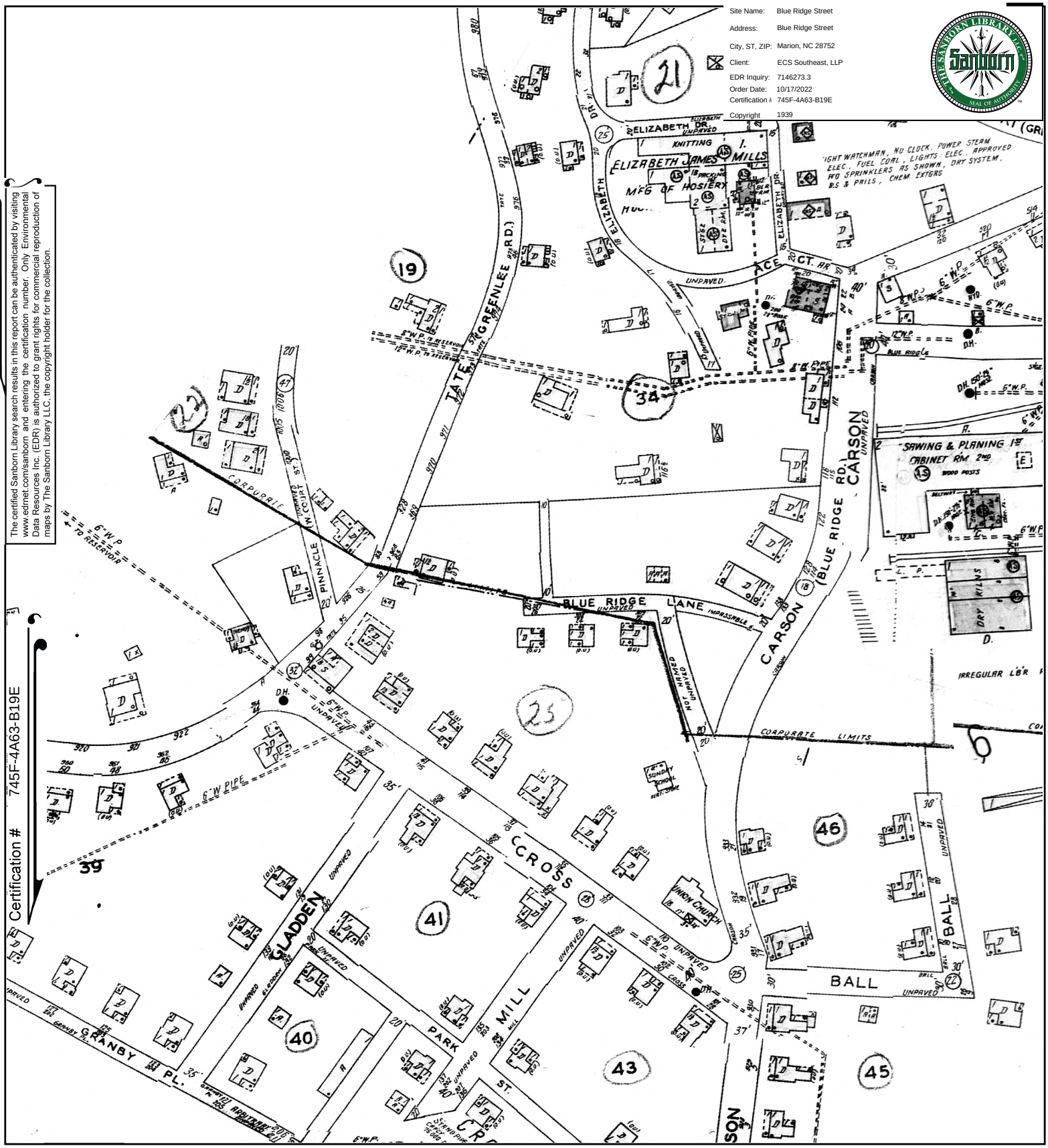
Volume 1, Sheet 6
Volume 1, Sheet 7

N

Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
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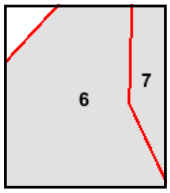
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Volume 1, Sheet 7
Volume 1, Sheet 6

N

Site Name: Blue Ridge Street
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Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
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Copyright 1928

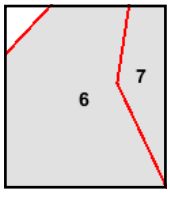
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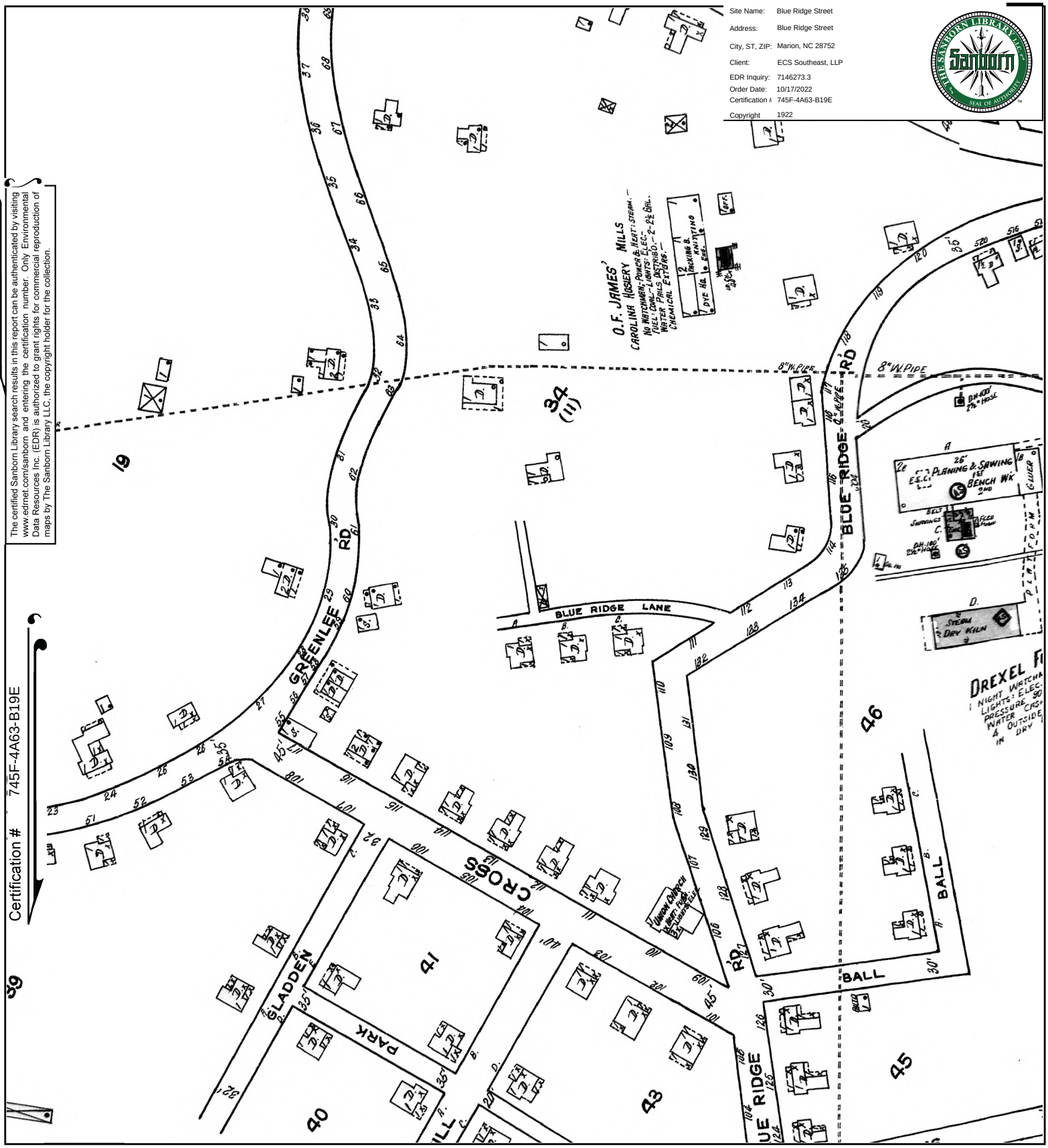


Volume 1, Sheet 6
Volume 1, Sheet 7

Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
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Order Date: 10/17/2022
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Copyright 1922

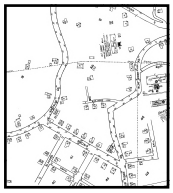
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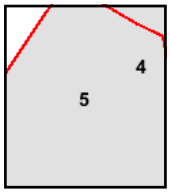
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Volume 1, Sheet 4
Volume 1, Sheet 5

N

Blue Ridge Street

Blue Ridge Street

Marion, NC 28752

Inquiry Number: 7146273.3

October 17, 2022

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Certified Sanborn® Map Report

10/17/22

Site Name:

Blue Ridge Street
Blue Ridge Street
Marion, NC 28752
EDR Inquiry # 7146273.3

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ECS Southeast, LLP
1900 Hendersonville Road
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Contact: Jennifer Brumbaugh

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Certified Sanborn Results:

Certification # 745F-4A63-B19E

PO # 18711

Project Former Drexel Mill Property

Maps Provided:

1956	1896
1939	1894
1928	
1922	
1918	
1913	
1908	
1902	

Sanborn® Library search results

Certification #: 745F-4A63-B19E

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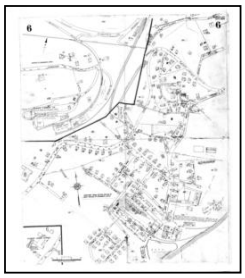
Sanborn Sheet Key

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1956 Source Sheets

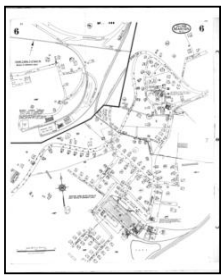


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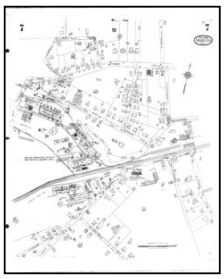


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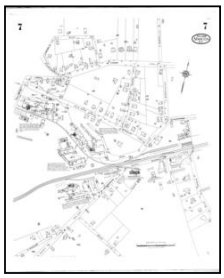


Volume 1, Sheet 6
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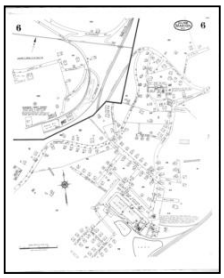


Volume 1, Sheet 7
1939

1928 Source Sheets

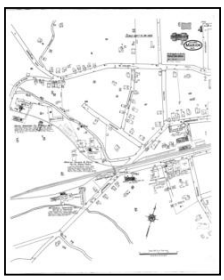


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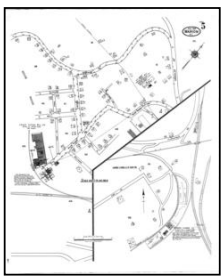


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1922 Source Sheets



Volume 1, Sheet 4
1922

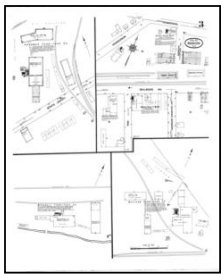


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1922

Sanborn Sheet Key

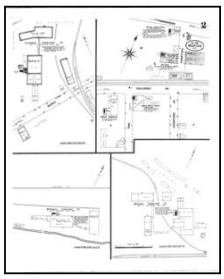
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1913 Source Sheets



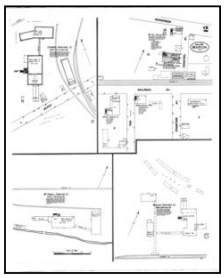
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1908 Source Sheets



Volume 1, Sheet 2
1908

1902 Source Sheets

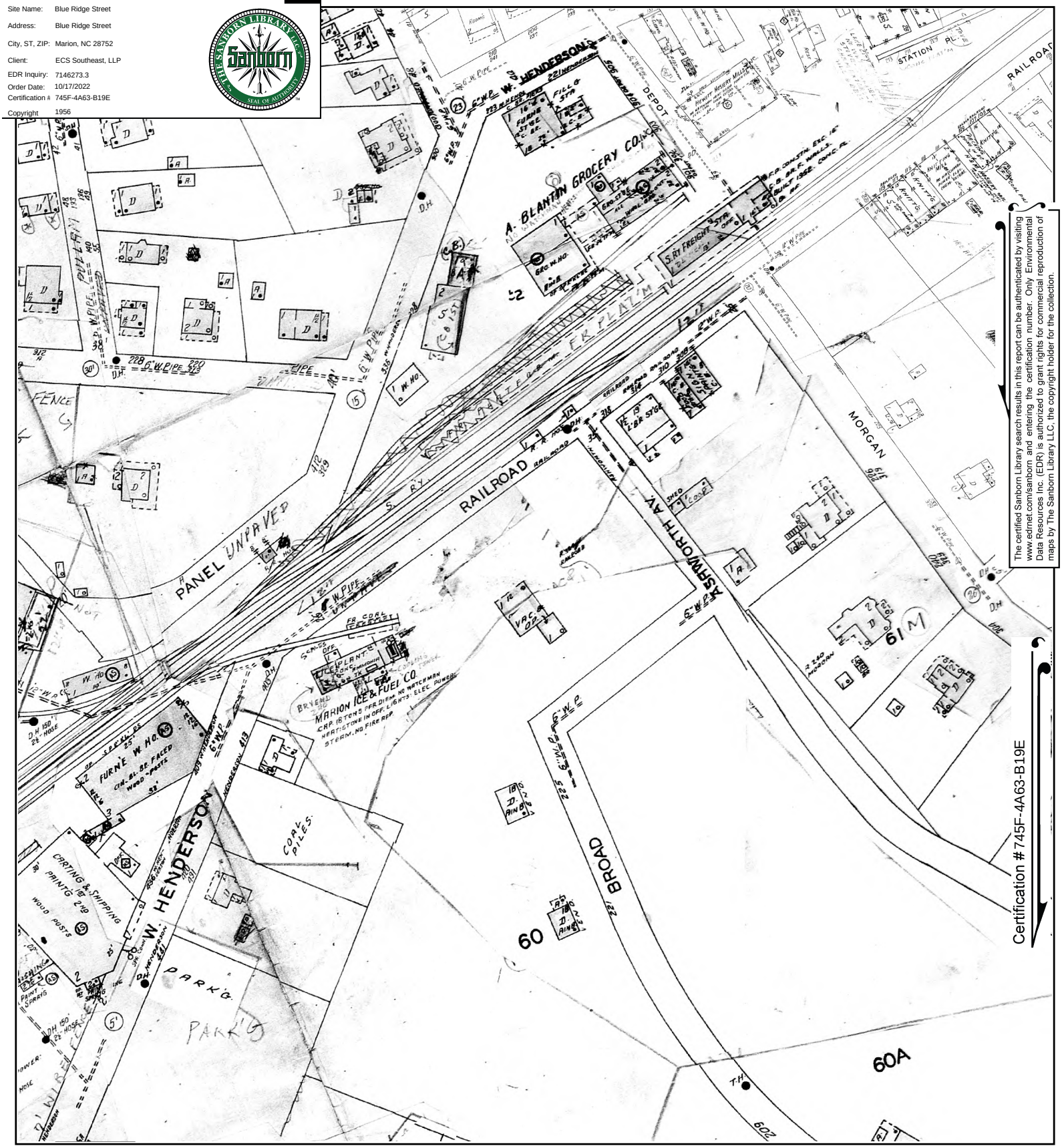


Volume 1, Sheet 2
1902

Certified Sanborn® Map

1956

Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright: 1956

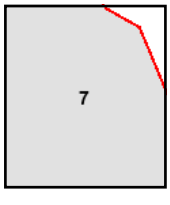


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Volume 1, Sheet 7

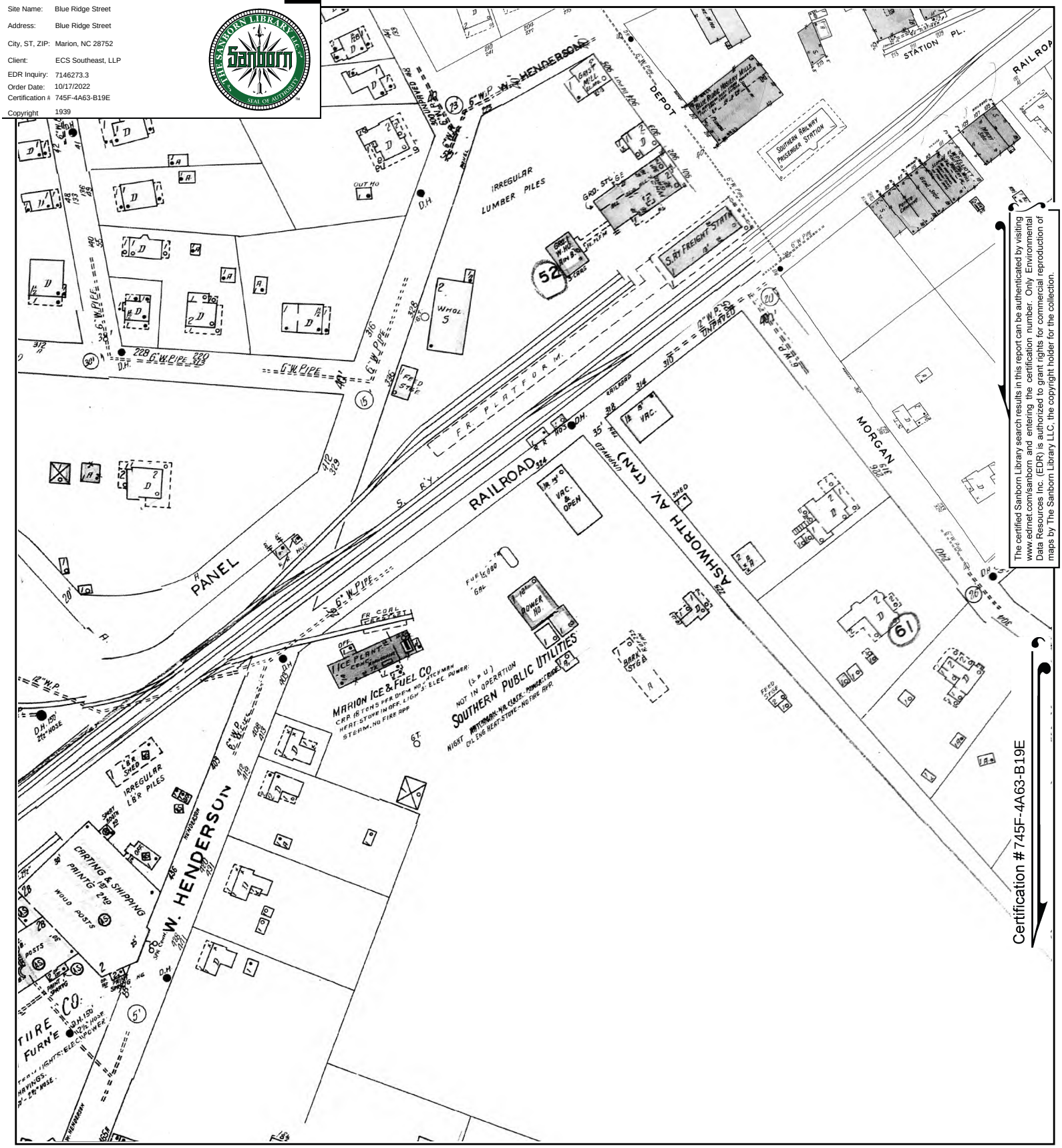
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Certified Sanborn® Map

1939

Site Name:	Blue Ridge Street
Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
Order Date:	10/17/2022
Certification #:	745F-4A63-B19E
Copyright	1939

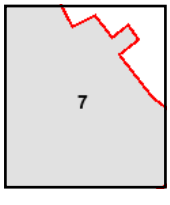


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Volume 1, Sheet 7
Volume 1, Sheet 6

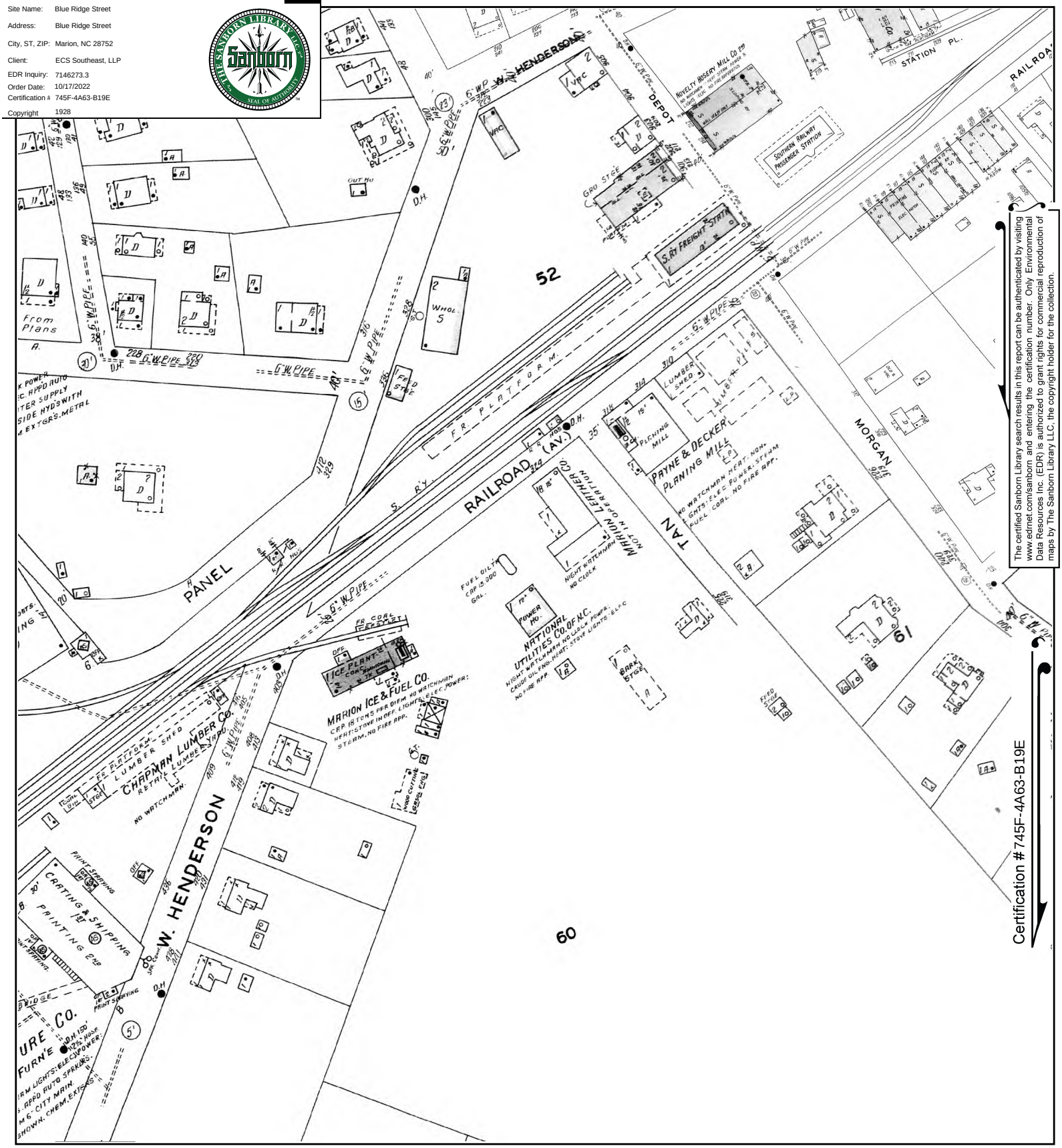
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Certified Sanborn® Map

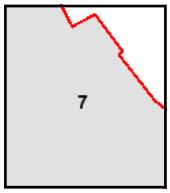
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Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright 1928



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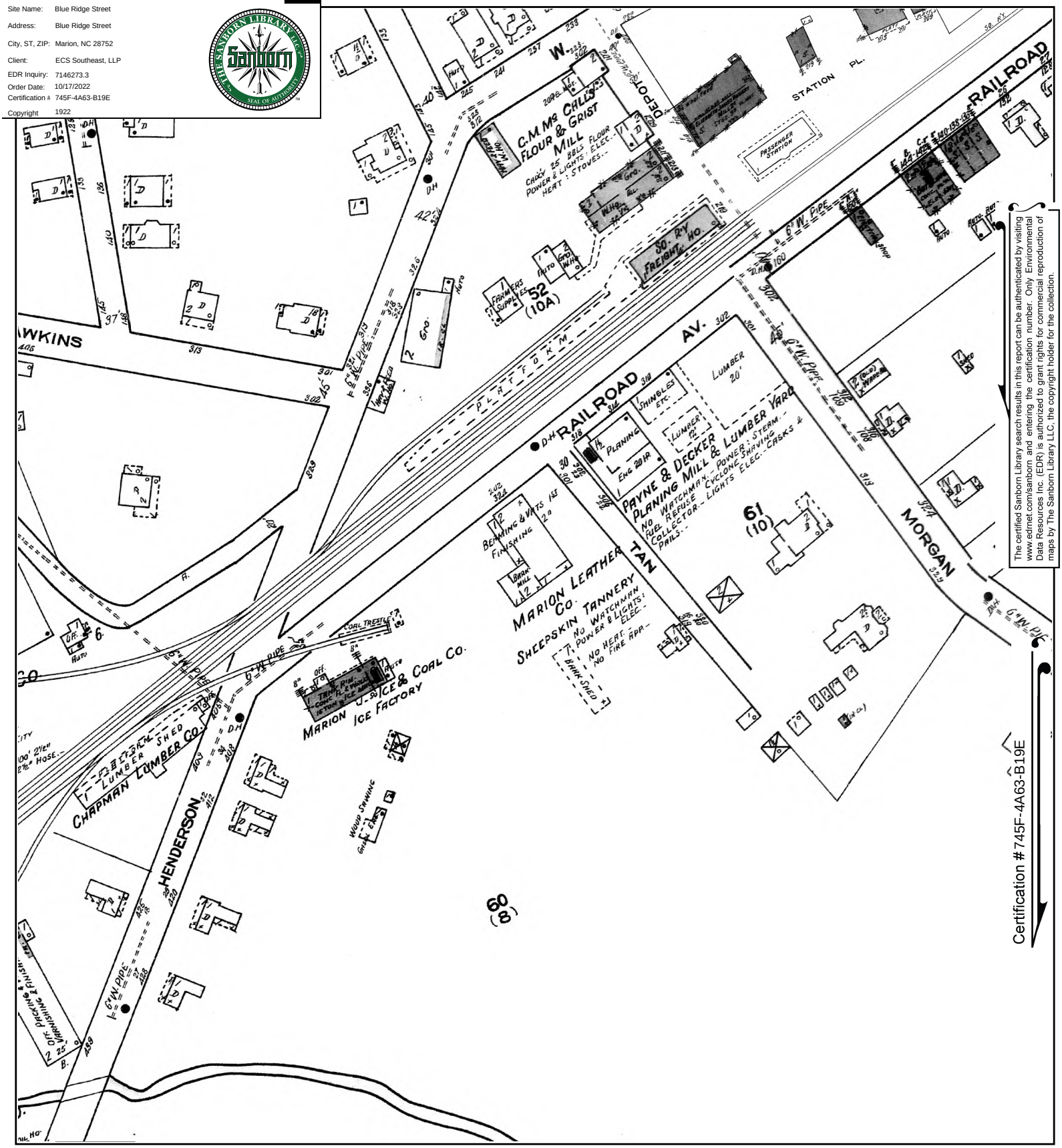
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Certified Sanborn® Map

1922

Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright 1922

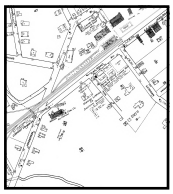


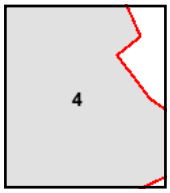
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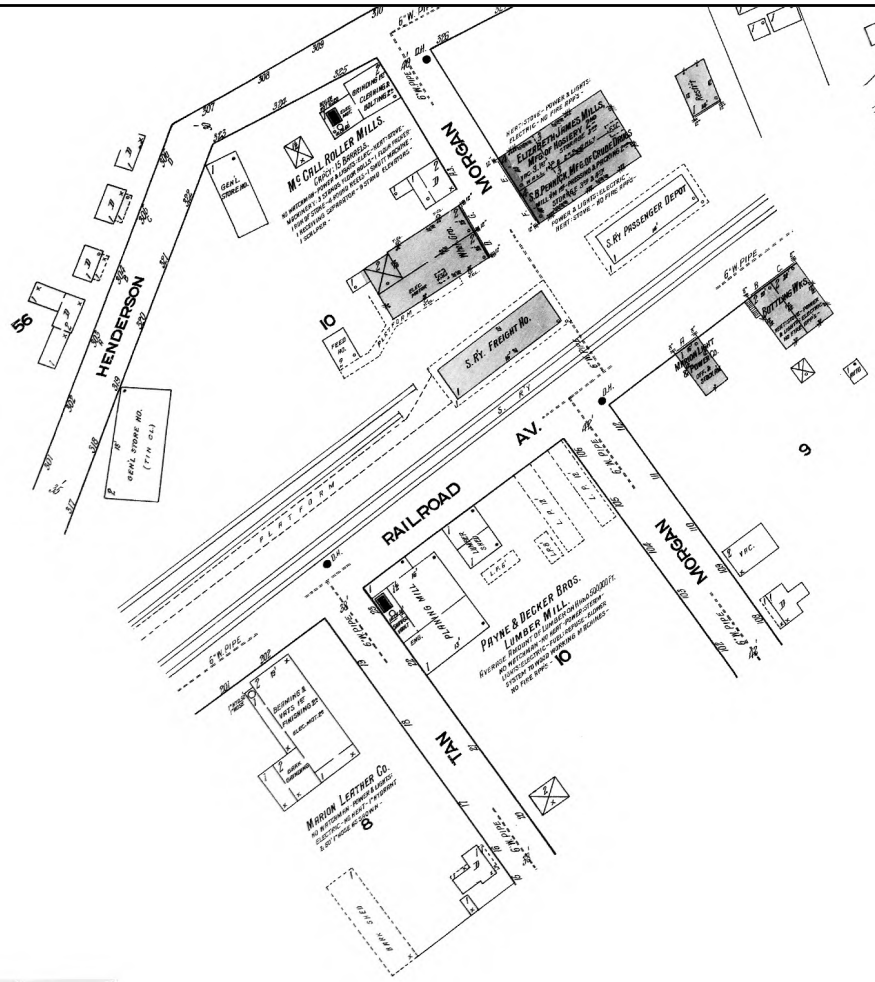
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Volume 1, Sheet 4

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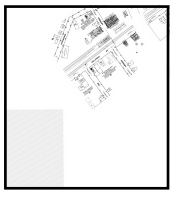


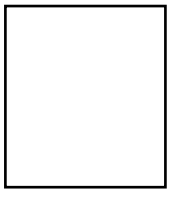
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Certification #745F-4A63-B19E

Site Name:	Blue Ridge Street
Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
Order Date:	10/17/2022
Certification #	745F-4A63-B19E
Copyright	1918

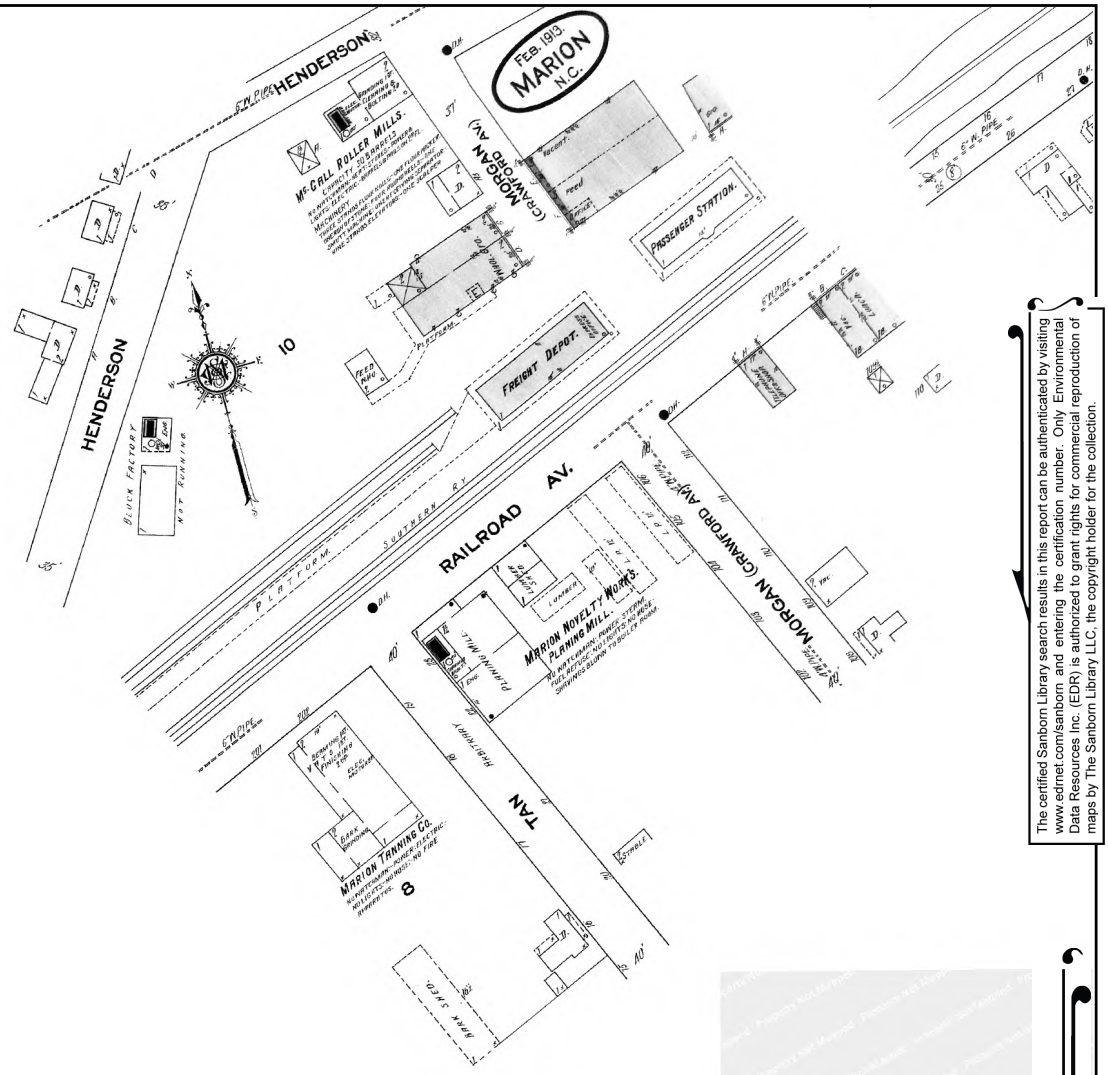
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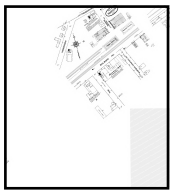


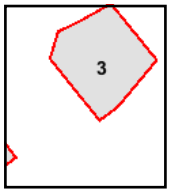
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Site Name:	Blue Ridge Street
Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
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Certification #	745F-4A63-B19E
Copyright	1913

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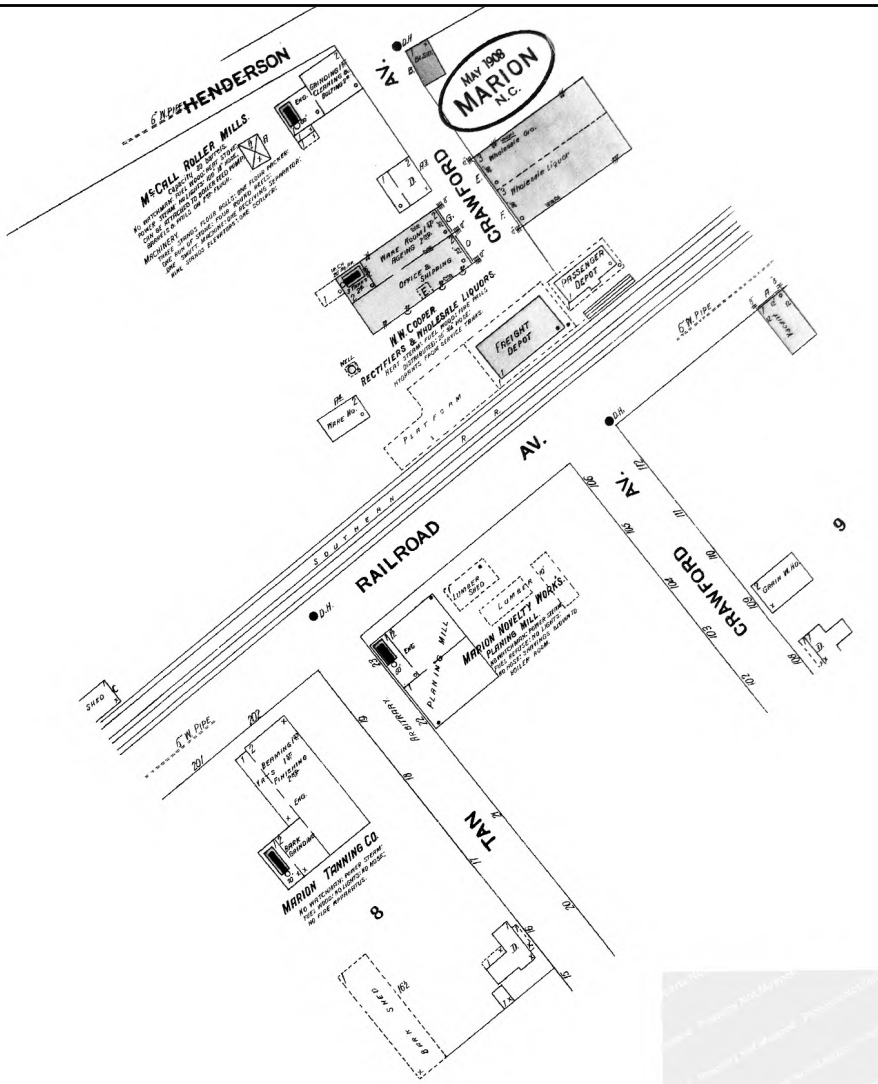




Volume 1, Sheet 3

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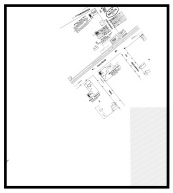


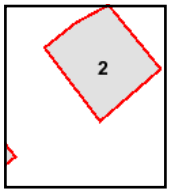
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Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
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Copyright	1908

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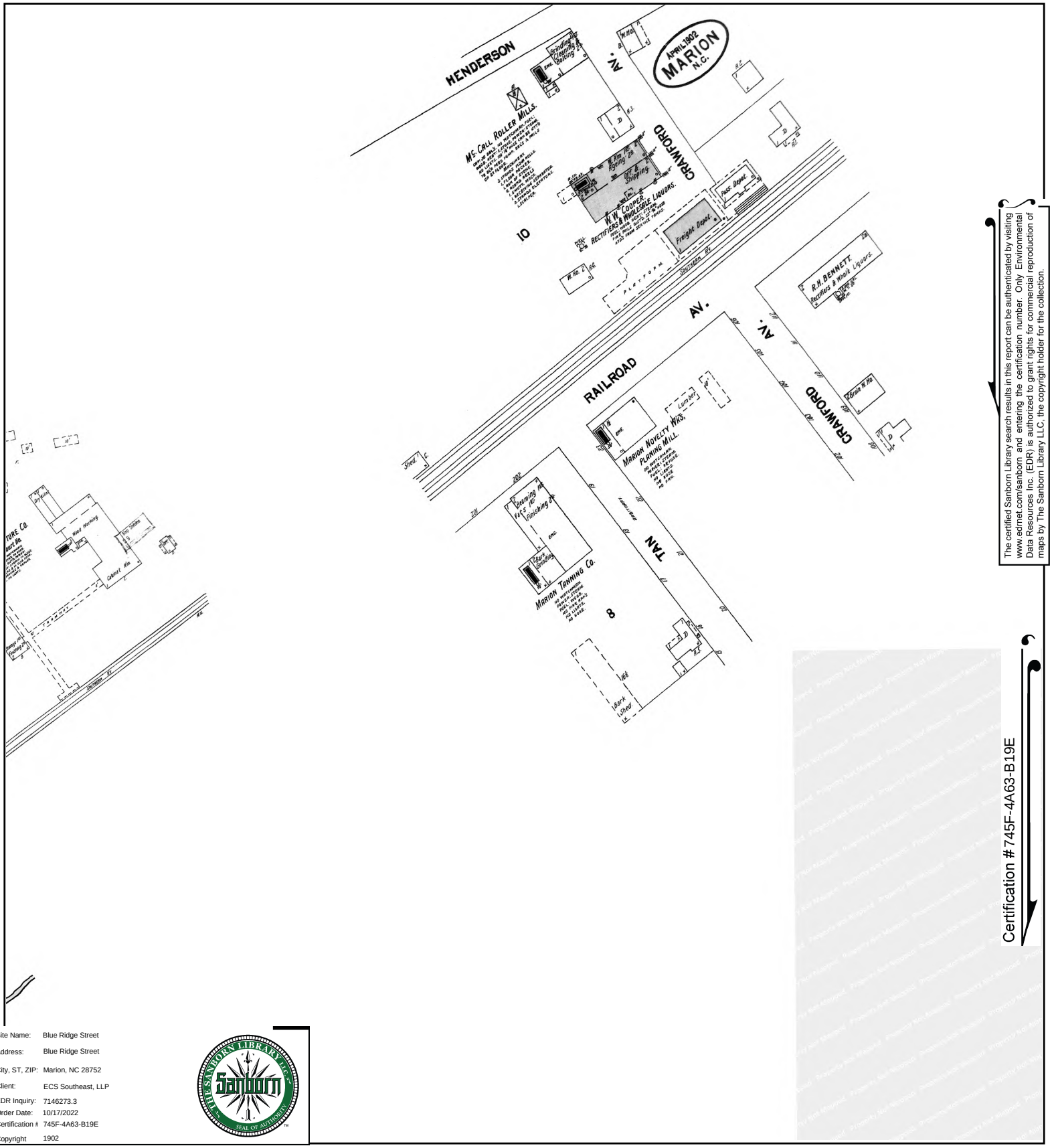




Volume 1, Sheet 2

0 Feet 150 300 600

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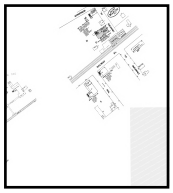


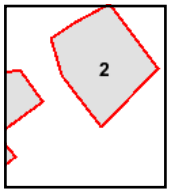
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Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
Order Date:	10/17/2022
Certification #	745F-4A63-B19E
Copyright	1902

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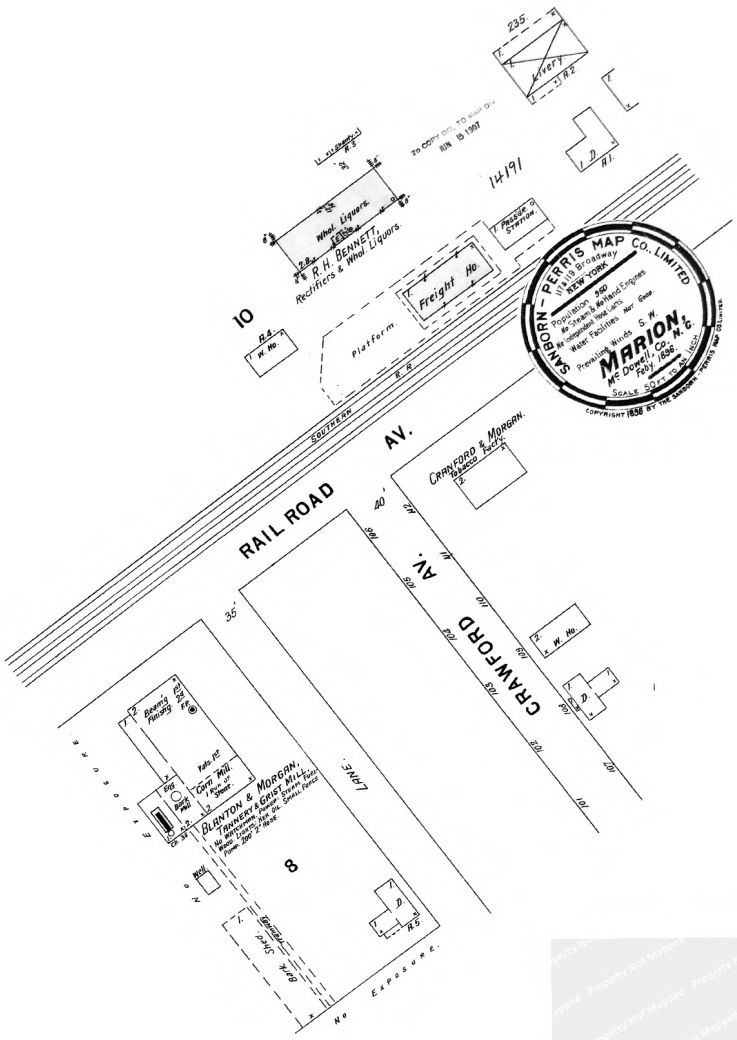




Volume 1, Sheet 2

0 Feet 150 300 600

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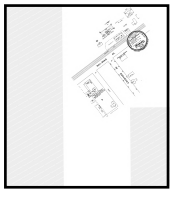
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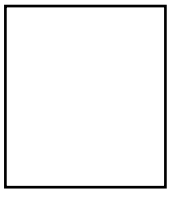
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Site Name:	Blue Ridge Street
Address:	Blue Ridge Street
City, ST, ZIP:	Marion, NC 28752
Client:	ECS Southeast, LLP
EDR Inquiry:	7146273.3
Order Date:	10/17/2022
Certification #	745F-4A63-B19E
Copyright	1896

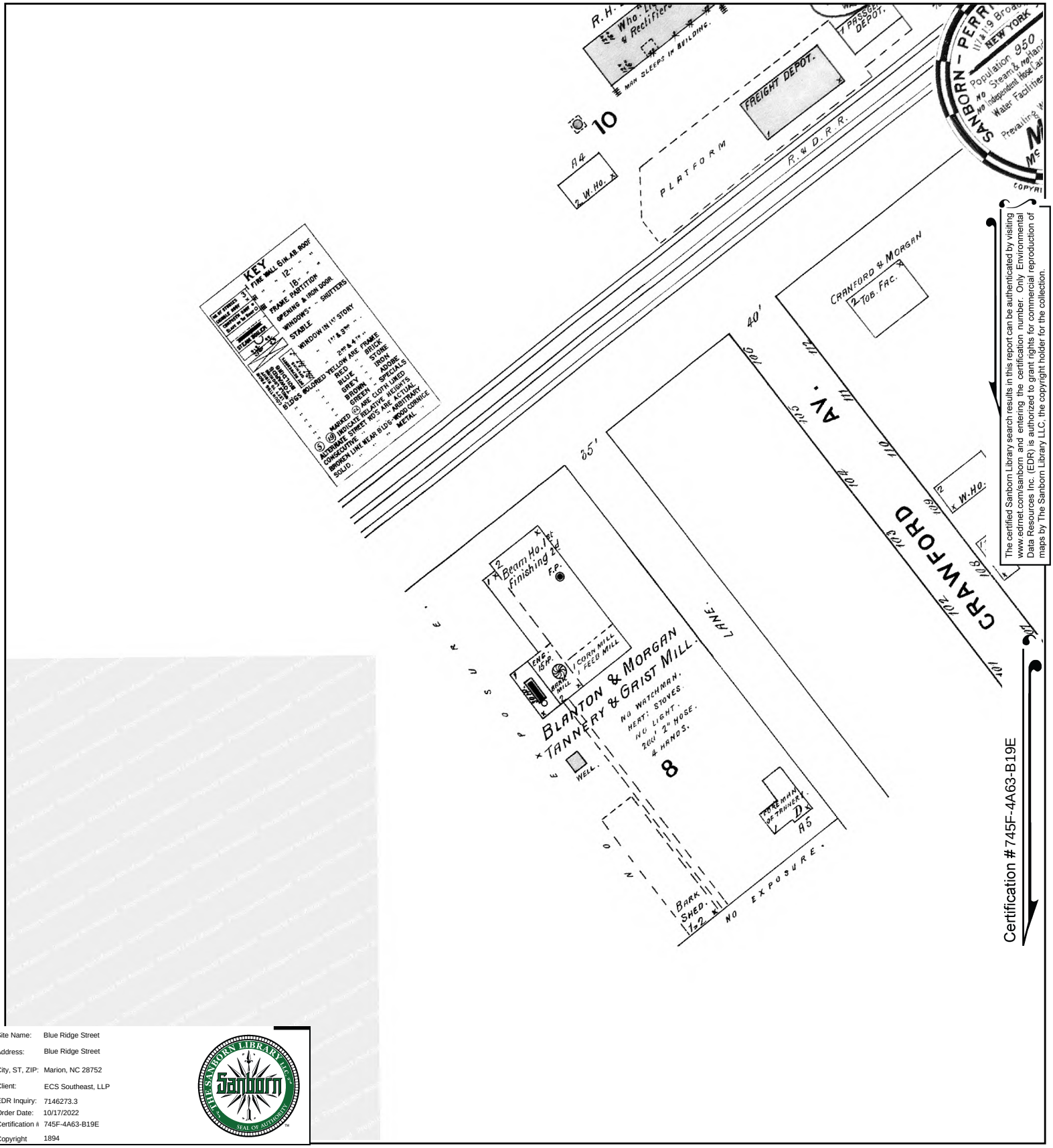
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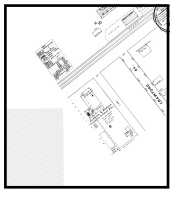
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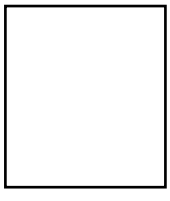
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Site Name: Blue Ridge Street
Address: Blue Ridge Street
City, ST, ZIP: Marion, NC 28752
Client: ECS Southeast, LLP
EDR Inquiry: 7146273.3
Order Date: 10/17/2022
Certification #: 745F-4A63-B19E
Copyright: 1894

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Blue Ridge Street
Blue Ridge Street
Marion, NC 28752

Inquiry Number: 7146273.5
October 17, 2022

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

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Year	Target Street	Cross Street	Source
2017	☑	☑	EDR Digital Archive
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1966	☑	☑	Mullin-Kille Con Survey Co.
1962	☑	☑	Miller's City Director

FINDINGS

TARGET PROPERTY STREET

Blue Ridge Street
Marion, NC 28752

Year	*CD Image*	*Source*
BLUE RIDGE ST		
2017	pg A1	EDR Digital Archive
2014	pg A3	EDR Digital Archive
2010	pg A5	EDR Digital Archive
2005	pg A7	EDR Digital Archive
2000	pg A9	EDR Digital Archive
1995	pg A11	EDR Digital Archive
1992	pg A13	EDR Digital Archive
1966	pg A15	Mullin-Kille Con Survey Co.
1962	pg A17	Miller's City Director

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
CARSON ST		
2017	pg. A2	EDR Digital Archive
2014	pg. A4	EDR Digital Archive
2010	pg. A6	EDR Digital Archive
2005	pg. A8	EDR Digital Archive
2000	pg. A10	EDR Digital Archive
1995	pg. A12	EDR Digital Archive
1992	pg. A14	EDR Digital Archive
1966	pg. A16	Mullin-Kille Con Survey Co.
1962	pg. A18	Miller's City Director
1962	pg. A19	Miller's City Director

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 2017

161	HUTCHERSON, KENDRA M
175	RICE, LANCE E
185	BROWN, TED E
233	SMITH, WILLIAM R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 2017

50	FREDDIES AUTO
116	ANDERSON, ELIZABETH K
	BIGGERSTAFF, STEPHEN R
	BLUE RIDGE TERRACE APARTMENTS
	BORNE, DONN C
	BRADLEY, MADGE
	BURNETTE, ANNE L
	CALLAHAN, CHUCKIE
	CODY, LINDA F
	DAVIS, VESTIE
	ELLIOTT, WAYNE
	FINLEY, ALMA
	FOLEY, LIONEL R
	FORTNER, CLAUDE
	GIBSON, THOMAS K
	GRAY, SHERRY A
	GRINDSTAFF, HARVEY R
	GUMBERT, GERALD
	HOLLIFIELD, NORMA L
	HYDE, DIAN C
	JENKINS, BARBARA E
	LACKEY, CATHALEEN W
	LOVETT, PEGGY
	MARLOW, STEVEN
	MARLOWE, VERNA
	MCPETERS, JACQUELINE
	PARKER, MILDRED M
	SMITH, SALLY K
	SPENCE, ROBERT R
	SUPERNOR, CORRINE T
	SVRCEK, JOHN A
	VANCE, JAMES G
	WALKER, JETTA W
170	BALLEW, SARAH
	ROBERTSON, KEVIN
199	RILEY, DYLAN
211	AUTREY, MICHELLE
221	JOHNSON, JAMES R
270	HELMS, THOMAS

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 2014

49	BRADLEY, MADGE
161	HUTCHINSON, KENDRA M
175	SPARKS, LISA J
185	BROWN, TED E
201	LONG, LESLIE E
220	MCINTOSH, TONYA M
221	CRANDALL, CARMEN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 2014

50	FREDDIES AUTO
100	GADDY, KENNETH
	MCKINNEY, MATILDA
116	ALLISON, RUBY S
	ANDERSON, ELIZABETH K
	ANTHONY, ELOISE
	BASS, GLADYS M
	BLUE RIDGE TERRACE APARTMENTS
	BORNE, DONN C
	COBLE, BIVIAN C
	CODY, LINDA F
	CONDREY, MARGIE M
	DAVIS, BETTY S
	DAVIS, EDNA B
	ELLIOTT, VAUTA B
	FORTNER, CLAUDE
	GUMBERT, GERALD
	HALL, KENNETH R
	HAUPT, RICHARD A
	JAMES, CHARLES L
	LANEY, PAULINE W
	MANIS, NOLA
	MARLOWE, VERNA
	MCPETERS, JACQUELINE
	OLLIS, NORA M
	PARKER, MILDRED M
	REVIS, JOSEPHINE W
	SANDERS, NELLIE P
	SPENCE, ROBERT R
	SUPERNOR, CORRINE S
	TAYLOR, PAT
170	ROBERTSON, KEVIN
	SPARKS, JUDY A
	YOUNG, ROBERT L
199	RILEY, DYLAN
200	MCCLELLAN, JEREMY L
221	RICH, ZACHARY T
249	OCCUPANT UNKNOWN,
270	OCCUPANT UNKNOWN,
295	HI TEC MACHINE 3
	HITEC MACHINE CORP
512	SILVERS FINISHING

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 2010

49	BRADLEY, MADGE
60	MACE, FRANCES G
161	HUTCHERSON, KENDRA M
175	SPARKS, CHELSEY
185	BROWN, TED E
201	LONG, LESLIE E
220	MCINTOSH, ERIC L
221	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 2010

45	RADER, RICHARD C
50	FREDDIES AUTO
100	GADDY, KENNETH
	LEDFORD, MARGARET
	MCKINNEY, MATILDA
116	BLUE RIDGE TERRACE APARTMENTS
	BORNE, RUTH E
	BURNETTE, EVELYN L
	DAVIS, EDNA B
	DAVIS, VESTIE
	HARLEE, NANCY G
	HOLLIFIELD, NORMA L
	LEDFORD, MARGARET
	MORRIS, DOROTHY D
	REESE, JENNIE Y
	REVIS, JOSEPHINE W
	RIDDLE, BOBBY G
	ROBINSON, LILLIAN I
	SANDERS, NELLIE P
	STEWART, ELLA M
	WILKERSON, AILENE
170	HARTJE, WENDY
	PRESNELL, DIANNA
	STANLEY, J
	STRICKLAND, JIMMY
	YOUNG, ROBERT
199	OCCUPANT UNKNOWN,
200	MCCLELLAN, JEREMY L
	SPARKS, JUDY A
221	JOHNSON, BETTYANN
232	TONEY, LILA P
235	OCCUPANT UNKNOWN,
249	MACE, JAMES
259	SATTERFIELD, MARTHA A
295	HI TEC MACHINE
	HITECH MACHINE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 2005

1	HEATON, RICHARD
2	MOFFITT, JOHN
49	BRADLEY, MADGE
60	MACE, FRANCES G
161	RIVERA, MARIA
185	OCCUPANT UNKNOWN,
220	MCINTOSH, TONYA
221	OCCUPANT UNKNOWN,
312	LONG, LESLIE E
314	BROWN, TED E
320	CONELY, T
328	ALTAPASS ORCHARDS
361	CANTEEN VENDING

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 2005

45	RADER, RICHARD C
50	MCCORMICK BRAKES & MUFFLER
100	BLUE RIDGE TERRACE APTS
	LEDFORD, MARGARET
116	ALLEN, PATRICIA A
	AUBREY, ARLENE M
	BOLDEN, LENNIE C
	CARTER, MARILYN
	CHEEK, PAULINE
	DAVIS, VESTIE
	HACKWORTH, HAZEL M
	HAUPT, RICHARD A
	HOLLIFIELD, NORMA L
	JOHNSON, VIRGINIA M
	KERLEY, OMA E
	KOENIG, HAZEL M
	MANIS, NOLA H
	MCALHANEY, ELIZABETH D
	MCCLAFFERTY, PEGGY O
	MCKINNEY, GENEVA
	MILLS, GEORGIA M
	MINISH, VERNON
	MORRIS, DOROTHY D
	PITTMAN, HATTIE L
	REESE, JENNIE Y
	REVIS, JOSEPHINE W
	ROLAND, ANNA W
	STEWART, ELLA M
	WAKEFIELD, MILDRED E
	WEBB, VIRGINIA M
	YOUNG, ROBERT V
170	GRAVES, DELEITH
	YOUNG, ROBERT
199	OCCUPANT UNKNOWN,
200	MCCLELLAN, JEREMY L
232	TONEY, LILA L
295	AVON PRODUCTS
	CALICO PRINTERS INC
	DAVIS, JUDY
	HALL, ZACHERY
	HI TEC MACHINE CORP
	ISEC
	WESTERN CAROLINA DIRECTORIES
501	CHAPMAN, PAMELA
511	SATTERFIELD, MARTHA A

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 2000

361 CANTEEN VENDING
DREXEL HERITAGE
DREXEL HERITAGE FURNITURE CO MAIN OFFICE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 2000

17	RADER, ALNA C
200	LONG, E
	MCCLELLAN, JEREMY
513	DATA NATIONAL
	HI TEC MACHINE
	INTERGRASERV
	SMOTHERS SERVICES
	SURE FAB
	VICKERS RECLAIMED LUMBER INCORPORATED
	VICKERS SERVICES

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 1995

314	BROWN, MARIE
320	SWOFFORD, LUISA
328	LECK, PAM
361	DREXEL HERITAGE FURNISHINGS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 1995

17	RADER, ALNA C
100	BILBREY, J W
	BLUE RIDGE TERRACE APARTMENTS
	BROOKS, EULA
	CONDREY, RUTH
	COUCH, GEORGIA
	CRESON, IRENE
	DAVIS, VESTIE
	GEIGER, E
	GREENE, EDNA K
	HALL, ZELLA M
	JENKINS, FLOYD
	JIMISON, LOUISE
	JOHNSON, V M
	LAIL, MARY
	MARQUARDT, ELSIE
	PRESNELL, MYRTLE
	RAFFIELD, STELLA R
	WOODY, MARILYN
501	OCCUPANT UNKNOWNN
503	ALLEN, ETHEL
505	HATHEWAY, VESTA
507	OCCUPANT UNKNOWNN
509	BUCHANAN, CAROL
511	OCCUPANT UNKNOWNN
512	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BLUE RIDGE ST 1992

228 KATES, EDITH
314 BROWN, MARIE

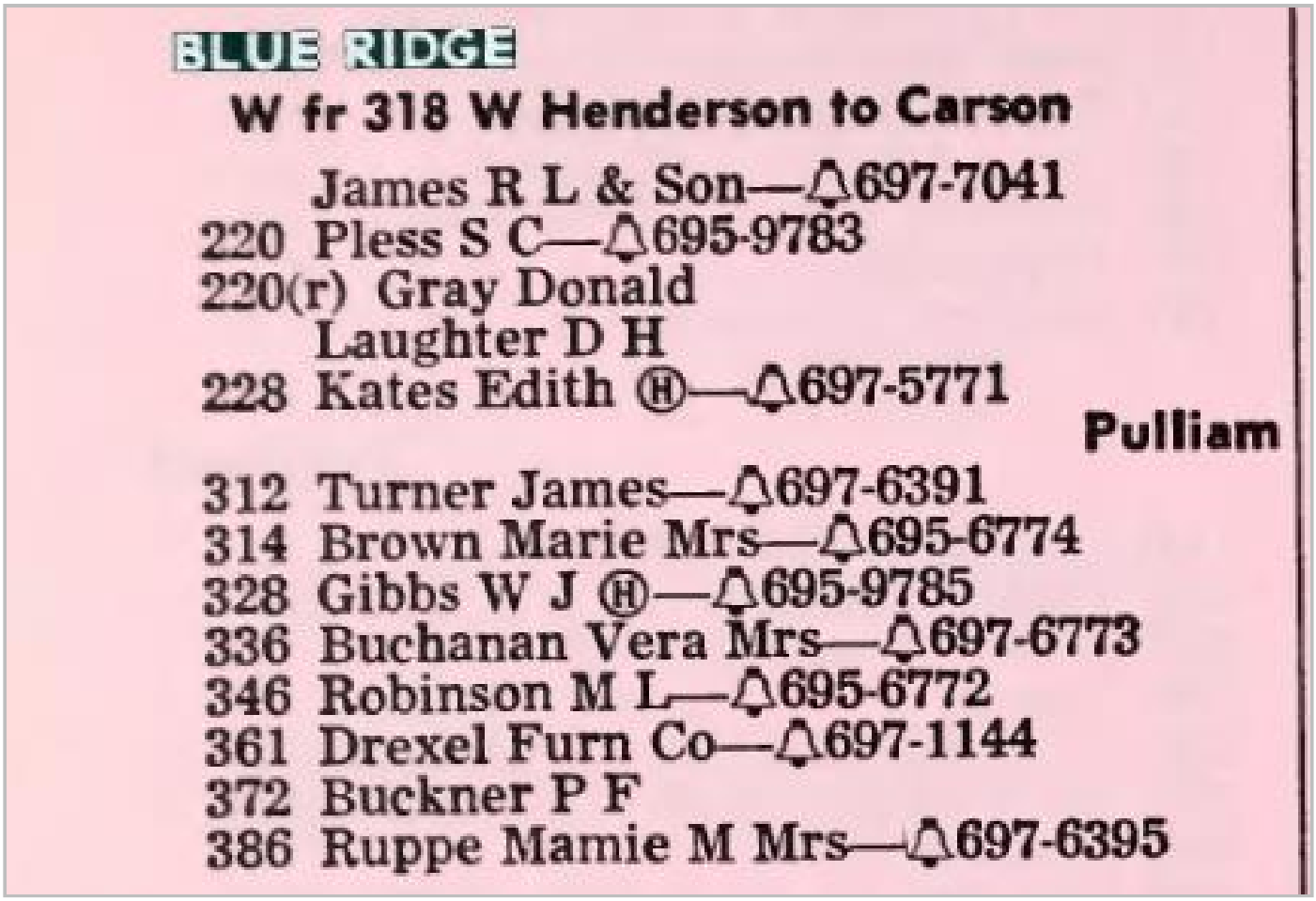
Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CARSON ST 1992

17	RADER, ALNA C
100	ANDERSON, CARRIE
	ATWATER, S E
	BILBREY, ALMA E
	BROOKS, EULA
	BRYANT, MAUDIE
	CARSON, SARAH J
	CRESON, IRENE
	ELLIOTT, AUDIE
	HALL, ZELLA M
	HAWKINS, ALMA L
	HOLLAR, GENETA
	JENKINS, FLOYD
	MARQUARDT, ELSIE
	MCCORMICK, EVELYN
	MCNEELY, EVELYN
	MOODY, FANNIE L
	NIX, FRANK
	QUINN, MYRTLE
	RHINEHARDT, RUTH
	VESS, CHINA
	WARD, WILMA
	WEBB, BIDDIE
	WEBB, K S
	WOODY, MARILYN
	YOUNG, CLAUDE T
505	MCPETERS, BOBBY

Target Street	Cross Street	Source
✓	-	Mullin-Kille Con Survey Co.

BLUE RIDGE ST 1966



BLUE RIDGE

W fr 318 W Henderson to Carson

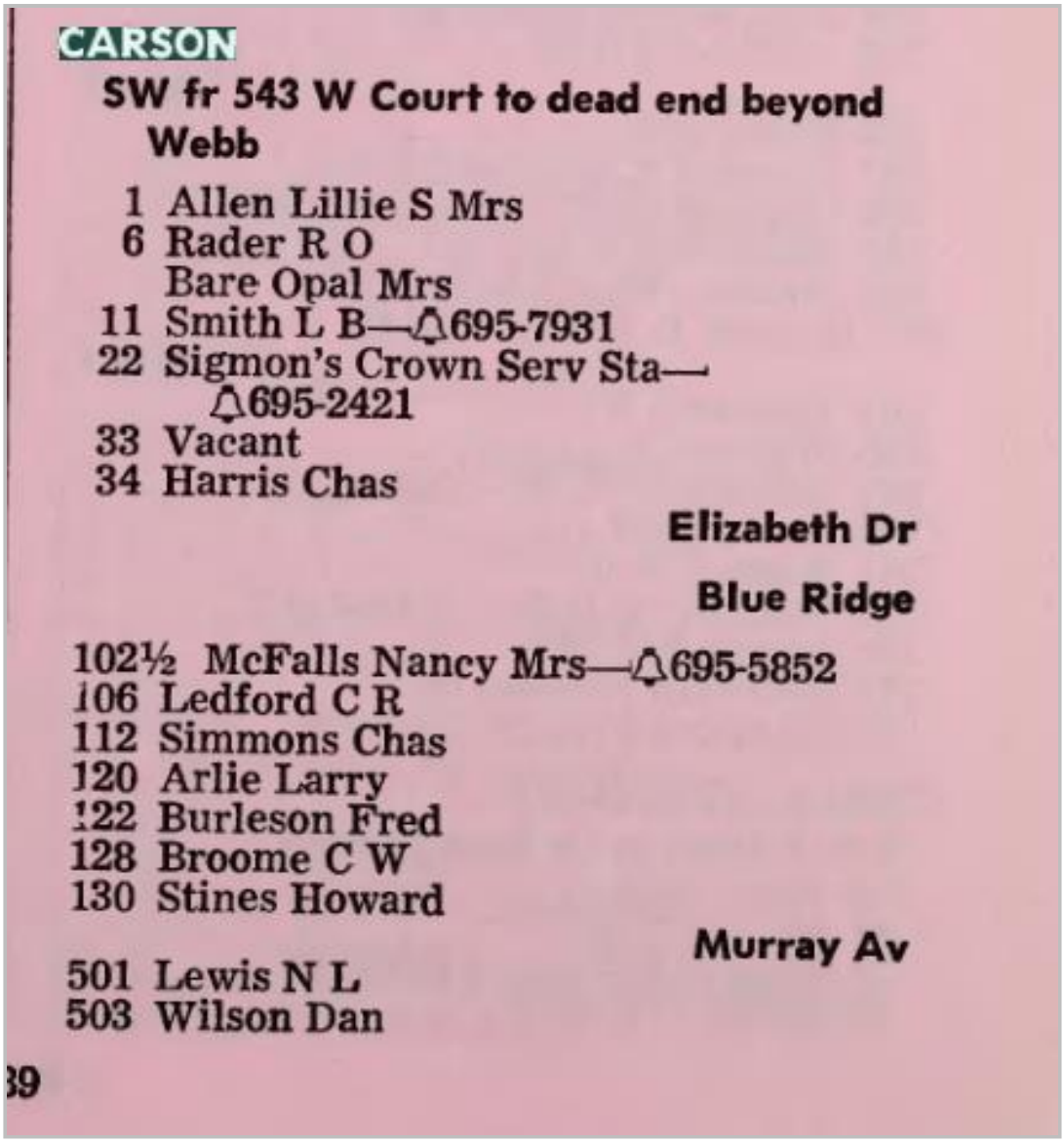
James R L & Son—△697-7041
220 Pless S C—△695-9783
220(r) Gray Donald
Laughter D H
228 Kates Edith Ⓗ—△697-5771

Pulliam

312 Turner James—△697-6391
314 Brown Marie Mrs—△695-6774
328 Gibbs W J Ⓗ—△695-9785
336 Buchanan Vera Mrs—△697-6773
346 Robinson M L—△695-6772
361 Drexel Furn Co—△697-1144
372 Buckner P F
386 Ruppe Mamie M Mrs—△697-6395

Target Street	Cross Street	Source
-	✓	Mullin-Kille Con Survey Co.

CARSON ST 1966



CARSON

SW fr 543 W Court to dead end beyond Webb

1 Allen Lillie S Mrs
6 Rader R O
Bare Opal Mrs
11 Smith L B—🔔695-7931
22 Sigmon's Crown Serv Sta—
🔔695-2421
33 Vacant
34 Harris Chas

Elizabeth Dr

Blue Ridge

102½ McFalls Nancy Mrs—🔔695-5852
106 Ledford C R
112 Simmons Chas
120 Arlie Larry
122 Burleson Fred
128 Broome C W
130 Stines Howard

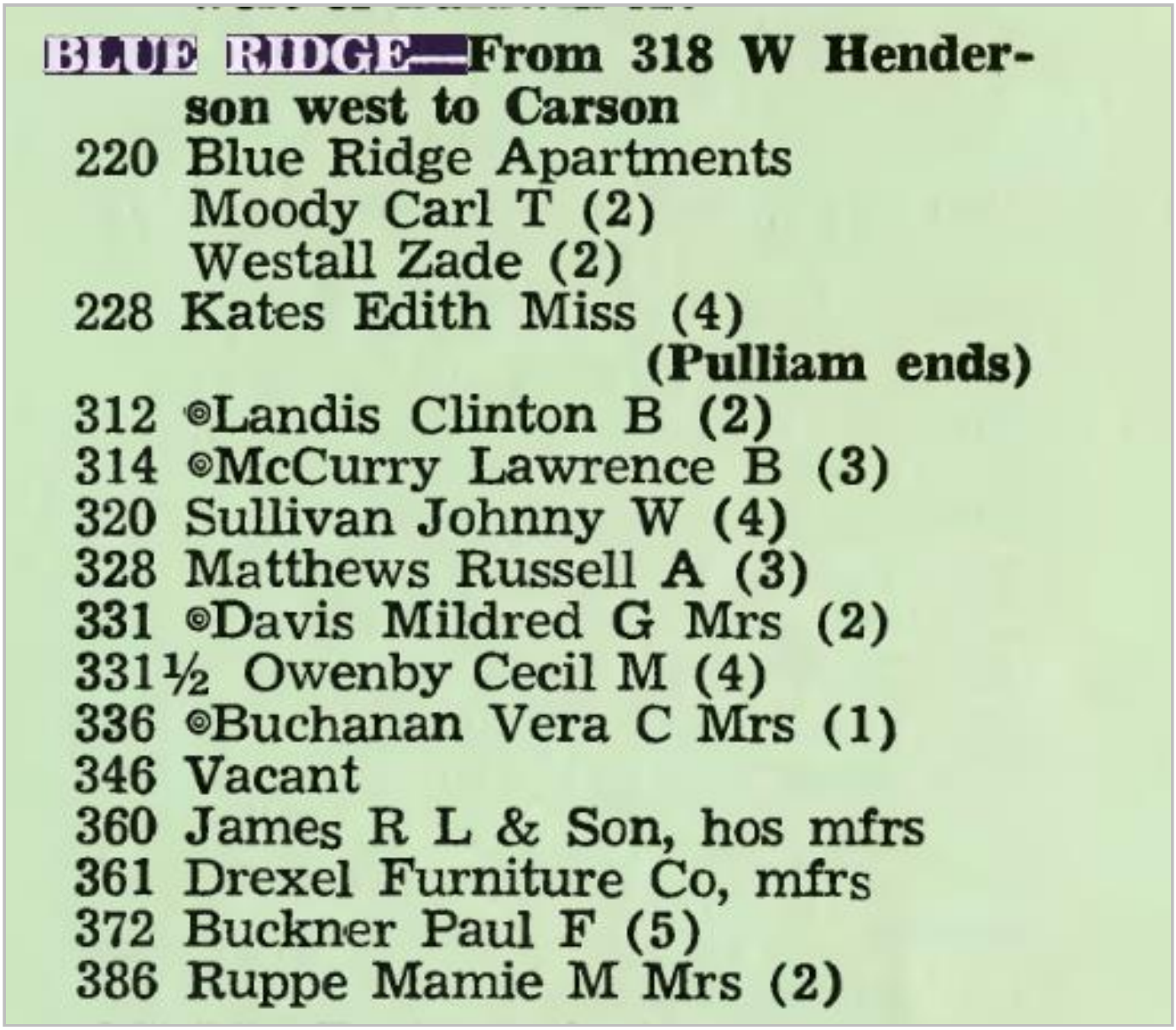
Murray Av

501 Lewis N L
503 Wilson Dan

39

Target Street	Cross Street	Source
✓	-	Miller's City Director

BLUE RIDGE ST 1962



BLUE RIDGE—From 318 W Henderson west to Carson

220 Blue Ridge Apartments
Moody Carl T (2)
Westall Zade (2)
228 Kates Edith Miss (4)
(Pulliam ends)
312 ◎Landis Clinton B (2)
314 ◎McCurry Lawrence B (3)
320 Sullivan Johnny W (4)
328 Matthews Russell A (3)
331 ◎Davis Mildred G Mrs (2)
331½ Owenby Cecil M (4)
336 ◎Buchanan Vera C Mrs (1)
346 Vacant
360 James R L & Son, hos mfrs
361 Drexel Furniture Co, mfrs
372 Buckner Paul F (5)
386 Ruppe Mamie M Mrs (2)

Target Street	Cross Street	Source
-	✓	Miller's City Director

CARSON ST 1962

CARSON — From 543 W Court south-west to city limit

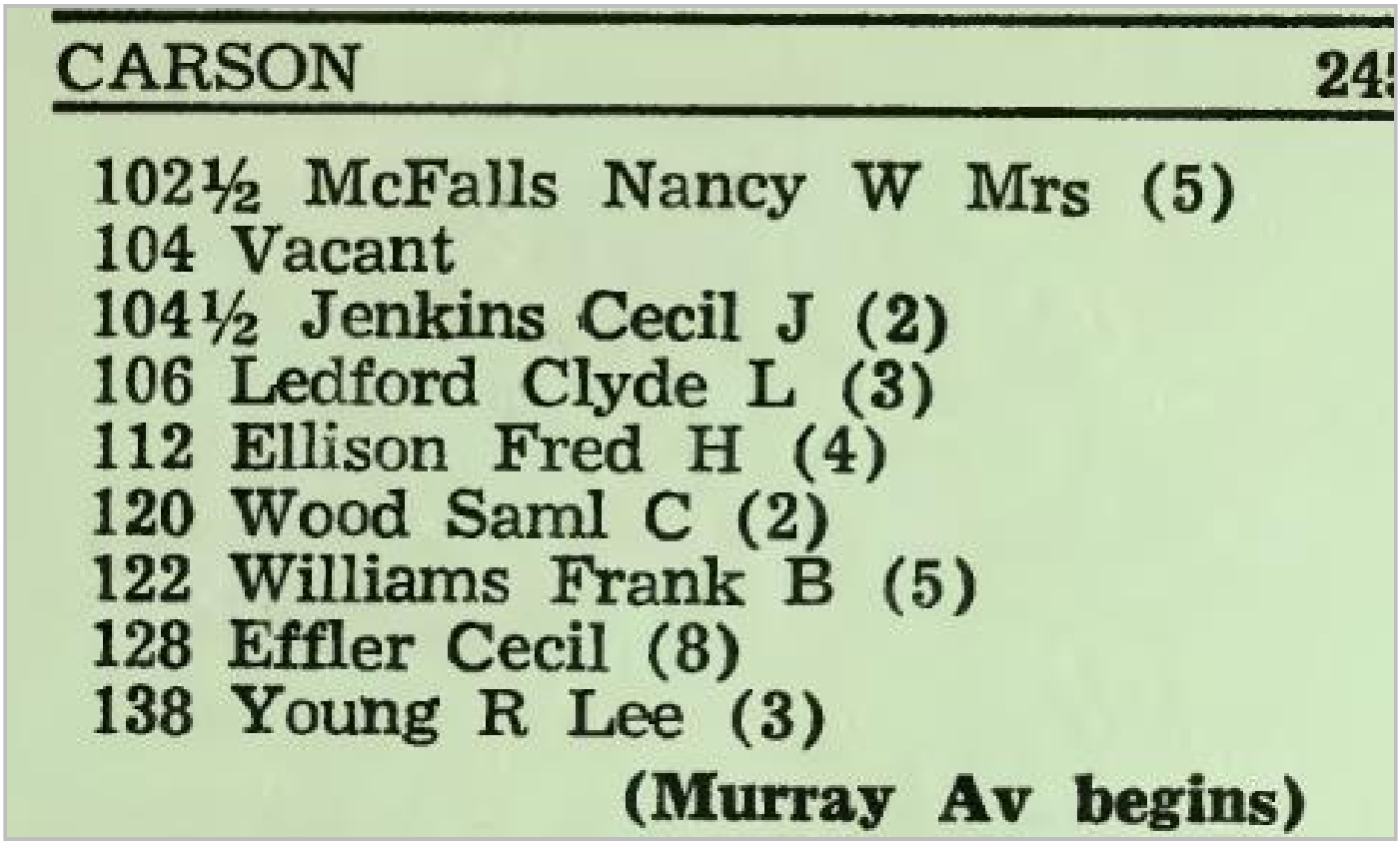
1 Vacant
6 ◎Rader Aggie M Mrs (3)
Biddix Wallace (2)
11 Smith Luther B (5)
17 ◎Rader Alna C (4)
22 Smith's Crown Service
33 Greenlee Refrigeratios Co
Greenlee Geo W (1)
34 Williams Mary P Mrs (3)
36 Storage

(Elizabeth Dr begins, Blue Ridge ends)

102 Red Pig Cafe

Target Street	Cross Street	Source
-	✓	Miller's City Director

CARSON ST 1962



CARSON 24

102½ McFalls Nancy W Mrs (5)
104 Vacant
104½ Jenkins Cecil J (2)
106 Ledford Clyde L (3)
112 Ellison Fred H (4)
120 Wood Saml C (2)
122 Williams Frank B (5)
128 Effler Cecil (8)
138 Young R Lee (3)

(Murray Av begins)

Blue Ridge Street

Blue Ridge Street

Marion, NC 28752

Inquiry Number: 7146273.4

October 12, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/12/22

Site Name:	Client Name:
Blue Ridge Street	ECS Southeast, LLP
Blue Ridge Street	1900 Hendersonville Road
Marion, NC 28752	Ashville, NC 28803
EDR Inquiry # 7146273.4	Contact: Jennifer Brumbaugh

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECS Southeast, LLP were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	18711	**Latitude:**	35.680095 35° 40' 48" North
Project:	Former Drexel Mill Property	**Longitude:**	-82.014688 -82° 0' 53" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	408179.12
		UTM Y Meters:	3948941.51
		Elevation:	1396.64' above sea level

Maps Provided:

2019
2016
2013
1994
1985
1962
1902
1900

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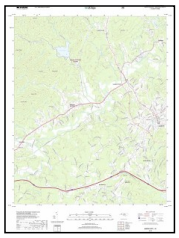
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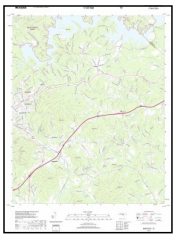
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

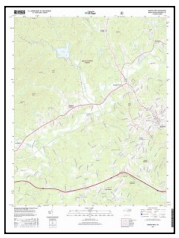


Marion West
2019
7.5-minute, 24000

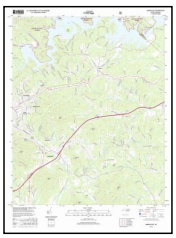


Marion East
2019
7.5-minute, 24000

2016 Source Sheets

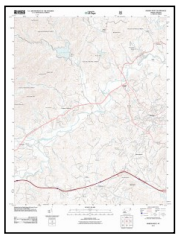


Marion West
2016
7.5-minute, 24000

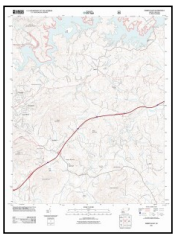


Marion East
2016
7.5-minute, 24000

2013 Source Sheets



Marion West
2013
7.5-minute, 24000



Marion East
2013
7.5-minute, 24000

1994 Source Sheets



Marion East
1994
7.5-minute, 24000
Aerial Photo Revised 1993



Marion West
1994
7.5-minute, 24000
Aerial Photo Revised 1994

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1985 Source Sheets



Marion West
1985
7.5-minute, 24000
Aerial Photo Revised 1978

1962 Source Sheets



Marion
1962
15-minute, 62500
Aerial Photo Revised 1955

1902 Source Sheets

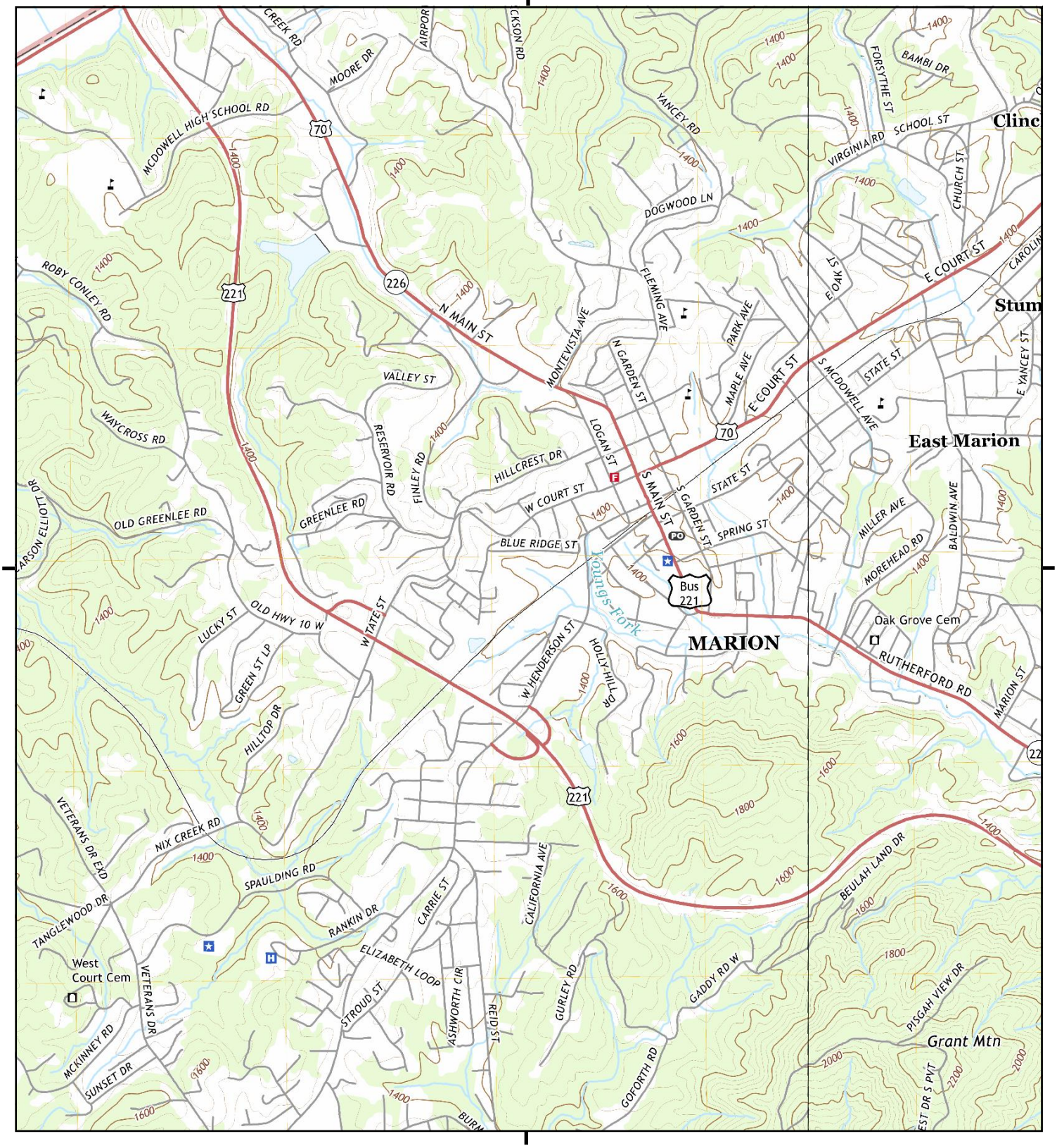


Mount Mitchell
1902
30-minute, 125000

1900 Source Sheets



Mount Mitchell
1900
30-minute, 125000



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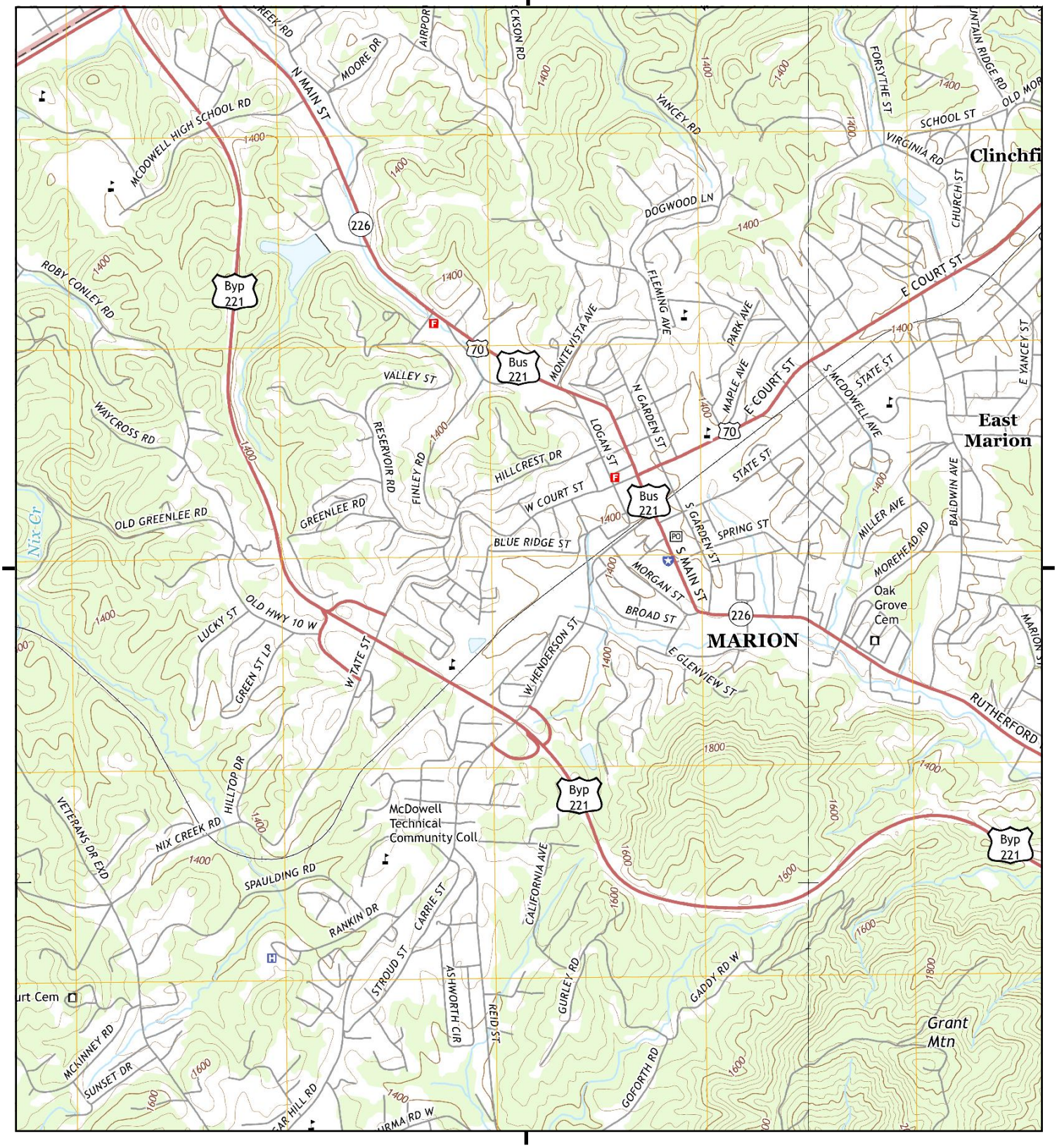
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Marion West, 2019, 7.5-minute
E, Marion East, 2019, 7.5-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



This report includes information from the following map sheet(s).

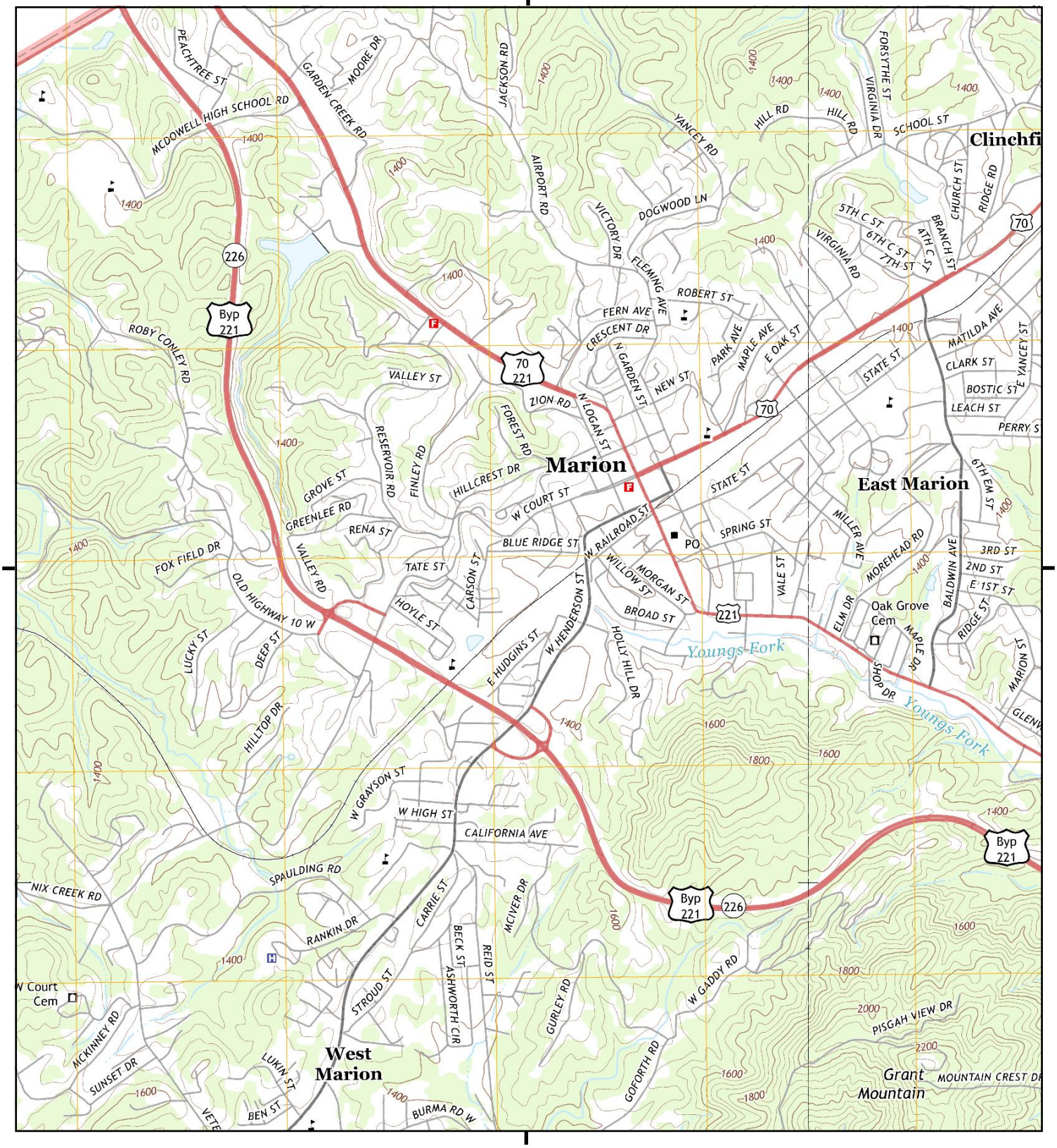
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Marion West, 2016, 7.5-minute
E, Marion East, 2016, 7.5-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



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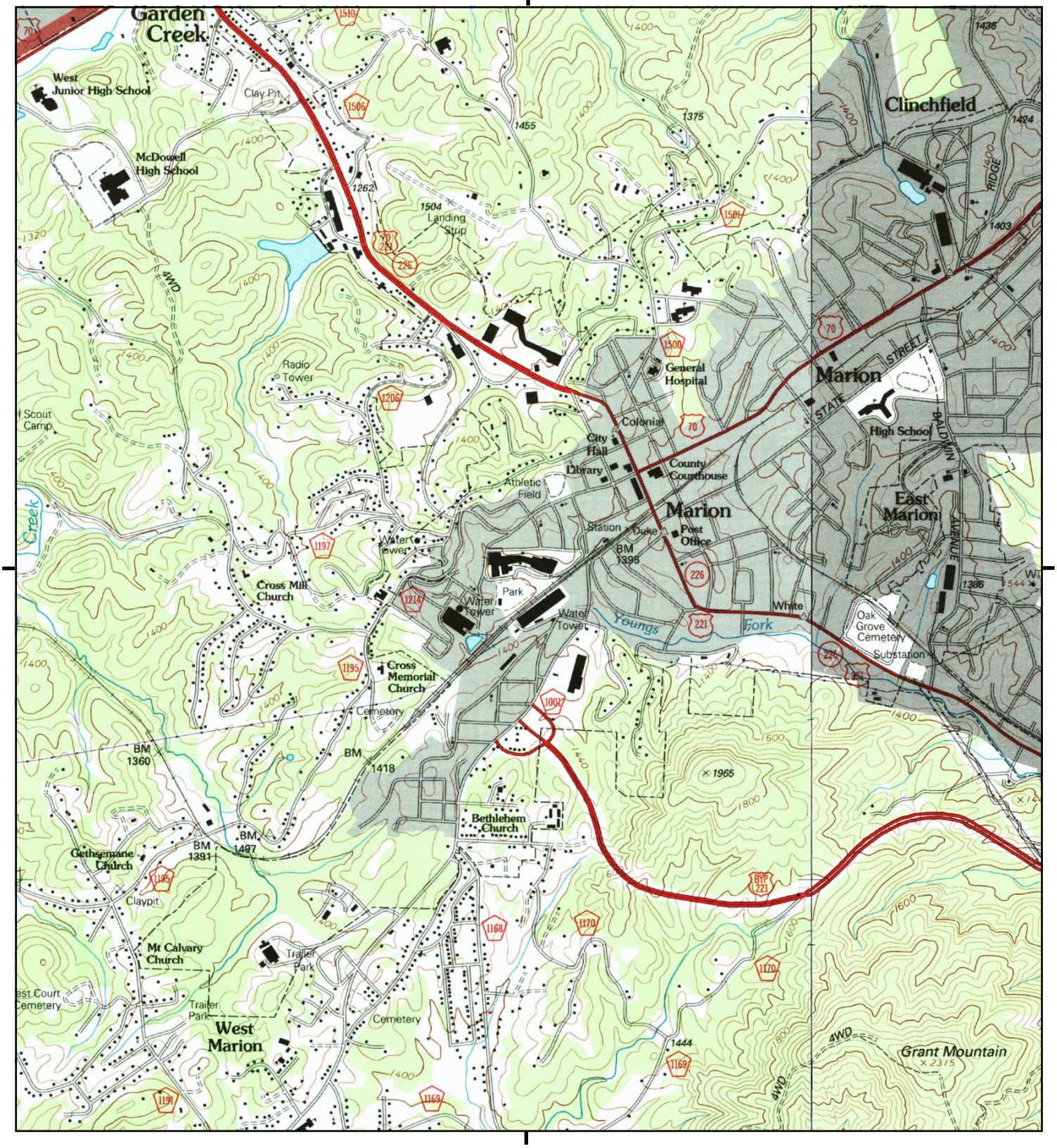
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Marion West, 2013, 7.5-minute
E, Marion East, 2013, 7.5-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



This report includes information from the following map sheet(s).

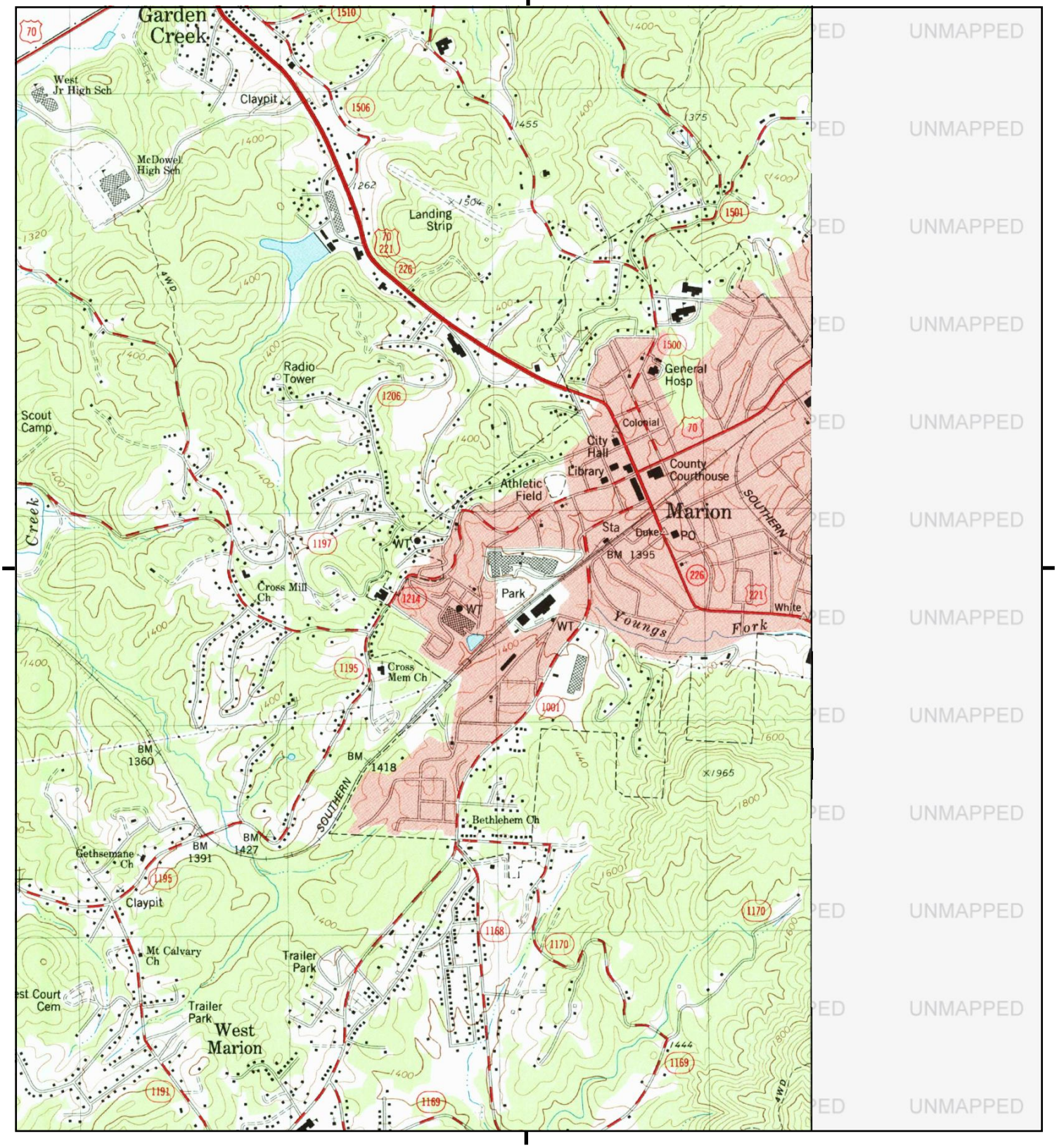
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Marion West, 1994, 7.5-minute
E, Marion East, 1994, 7.5-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



This report includes information from the following map sheet(s).

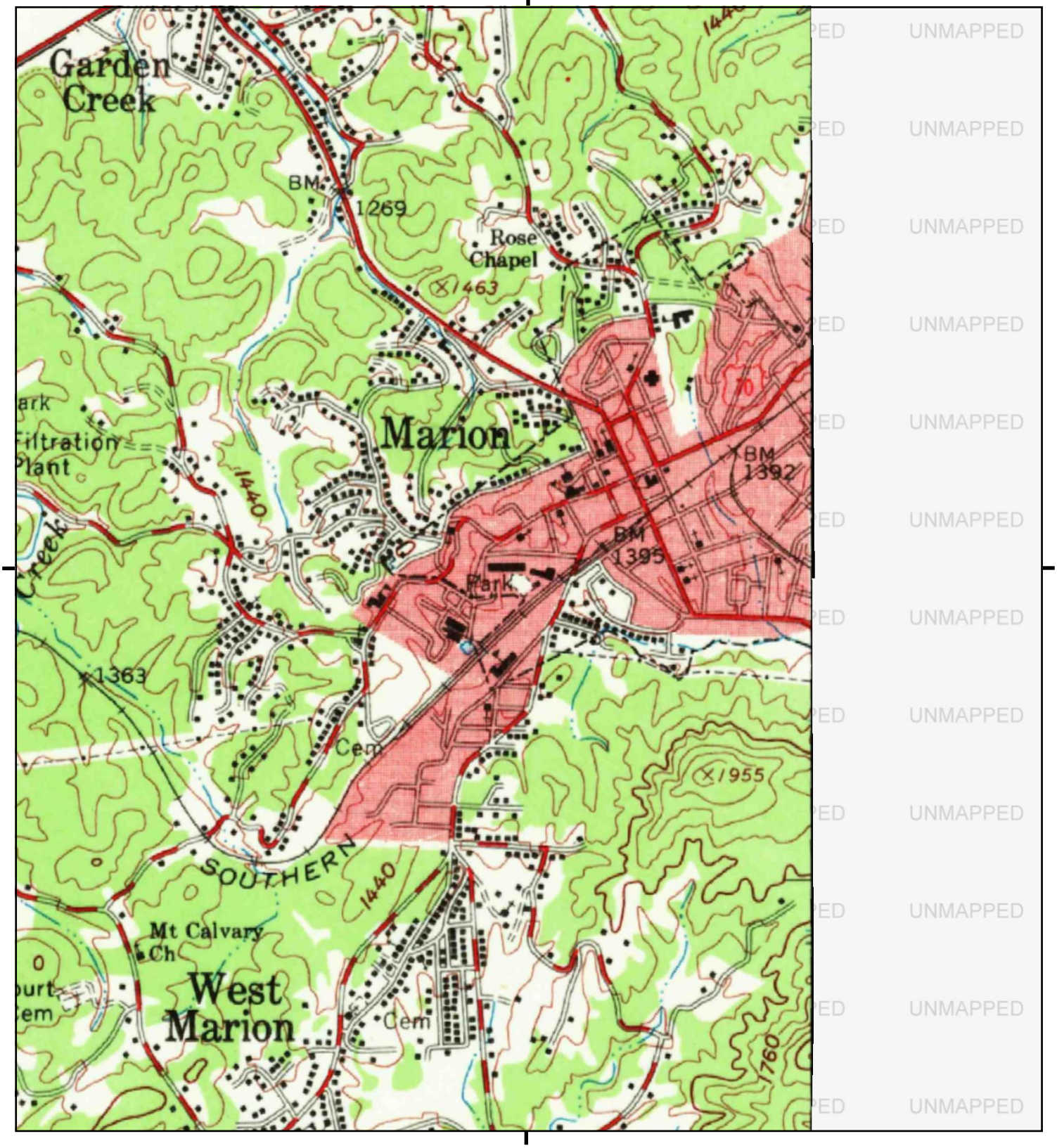
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Marion West, 1985, 7.5-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



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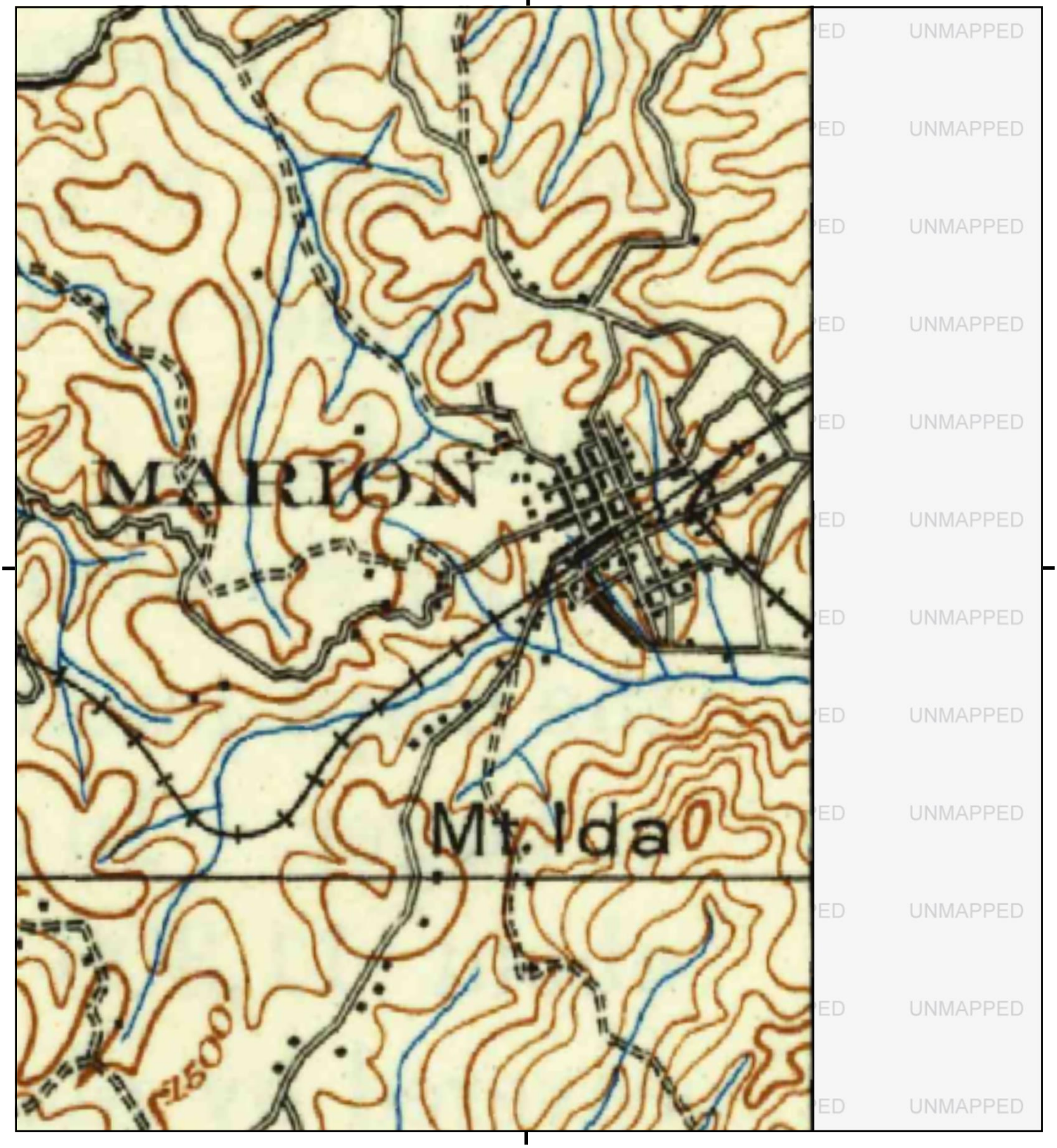
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NW N NE
W E
SW S SE

TP, Marion, 1962, 15-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



This report includes information from the following map sheet(s).

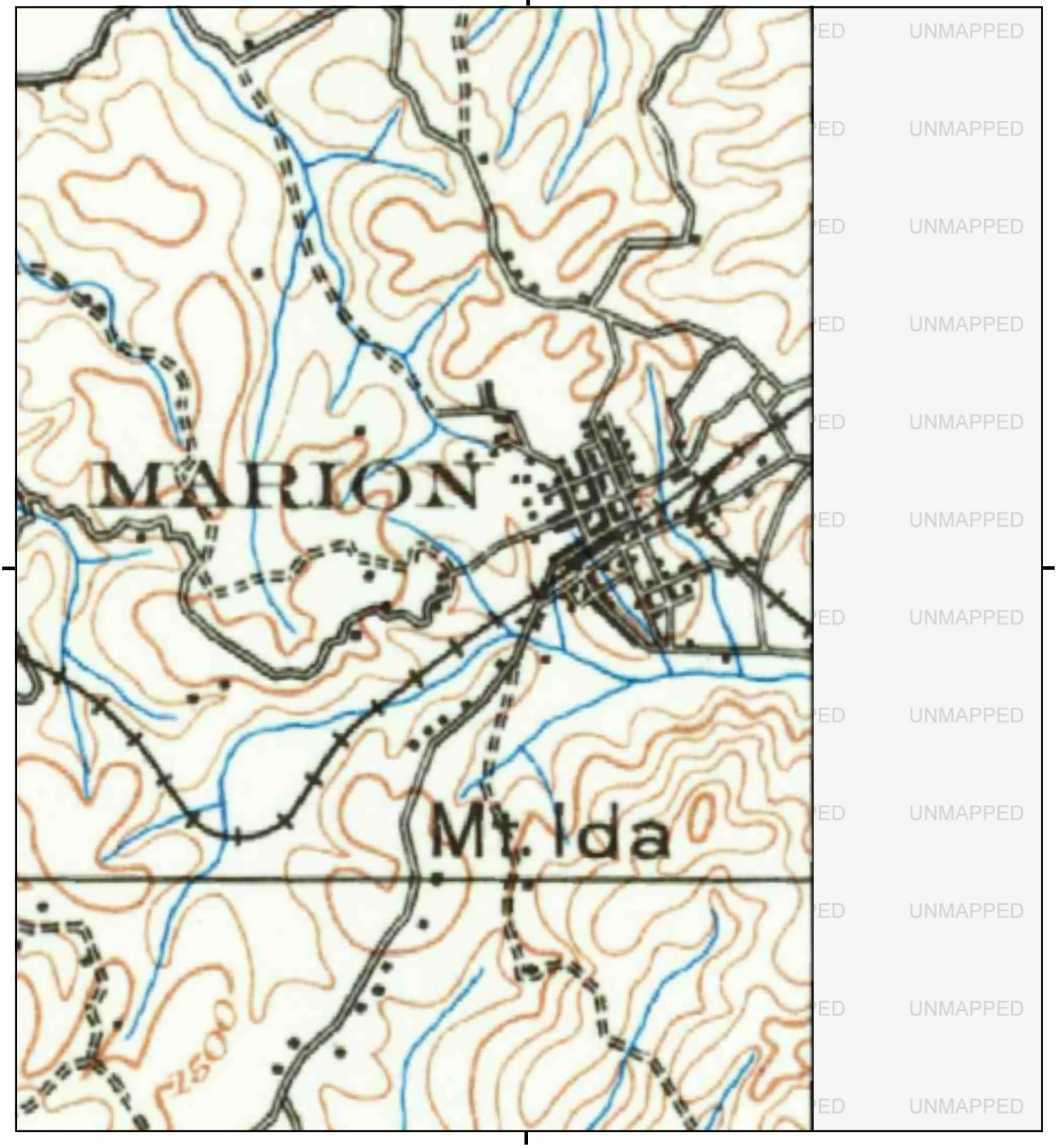
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mount Mitchell, 1902, 30-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mount Mitchell, 1900, 30-minute

SITE NAME: Blue Ridge Street
ADDRESS: Blue Ridge Street
Marion, NC 28752
CLIENT: ECS Southeast, LLP

N

Appendix V: Site Photographs



1 - View of the subject property, facing northwest.



2 - View of a concrete slab from the prior industrial facility.



3 - View of a concrete slab from the prior industrial facility.



4 - View of the parking lot overgrown with vegetation.



5 - View of the retaining wall.



6 - View of the water tank.



7 - View of the vegetated area on the southern portion of the site.



8 - View of the UST basin which includes four USTs and an OWS.



9 - View of a residence to the north.



10 - View of the O'Reilly Auto Parts to the north.



11 - View of the grocery store to the north.



12 - View of the commercial/industrial building to the north.



13 - View of the church to the north.



14 - View of a residential neighborhood to the north.



15 - View of adjoining property to the southeast



16 - View of southern adjoining property



17 - View of western adjoining property



18 - View of northwestern adjoining property

Appendix VI: Additional Documents

September 21, 2017

Ms. Haley M. Irick
Project Manager
Division of Waste Management – Brownfields Program
North Carolina Department of Environmental Quality
217 W. Jones Street
1646 Mail Service Center
Raleigh, NC 27699

Reference: File Review Summary & Initial Assessment Activities
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell, North Carolina
ECS Project No. 49-3978-A

Dear Ms. Irick:

ECS Southeast, LLP (ECS) is pleased to provide you with our file review summary for the former Drexel Facility. The file review is based on the results of a Phase I Environmental Site Assessment (ESA) report completed for the subject property completed by Tetra Tech (Technical Direction Document No. TT-06-013) and dated March 29, 2016 as well as several other documents referenced herein and attached for reference. Also included in this document is ECS proposed initial assessment activities for your review, discussion, and comment.

SITE INFORMATION

The Drexel Facility located at 70 Blue Ridge Street in Marion, McDowell County, North Carolina (Figures 1 and 2). The property is comprised of approximately 15.29-acres of land primarily covered with building debris from previous demolition activities and building foundations. According to the Phase I ESA conducted by Tetra Tech, the facility previously operated as Westwood NC II LLC, Western Furniture Co., Marion Veneer and Panel Co., and Teague Furniture Co. and has operated as a furniture manufacturing facility since at least 1902.

ECS conducted a visit to the subject property to observe site conditions on March 28, 2017 (with representatives from the City of Marion as well as the DEQ Brownfields Group). The condition of the property at the time of our site visit was consistent with the conditions described in Tetra Tech 2016 Phase I ESA. In addition to the debris piles and former building foundations, ECS observed the presence of an oil water separator, underground storage tanks (USTs), and multiple 55-gallon drums that appeared to be full of fluid. The 55-gallond drums were observed in a drum storage area and a warehouse located on the southwestern portion of the property.

FILE REVIEW FINDINGS

ECS conducted a file review that included the Tetra Tech Phase I ESA completed in 2016 as well as other documents obtained through a file request with the NCDEQ. A summary of the file review findings are provided in the text below.

The Phase I ESA identified several recognized environmental conditions (RECs) both on-site and off-site. ECS was requested to review information associated with the RECs to assist with developing a scope of work for additional assessment activities.

The above-referenced Phase I ESA identified the following RECs:

On-Site RECs

- The presence of fuel oil underground storage tanks (USTs);
- The presence of an oil-water separator (OWS);
- The presence of additional USTs and/or former aboveground storage tanks (ASTs);
- The aluminum-clad steel frame building with numerous 55-gallon drums and smaller containers; and
- Another on-site building that contained multiple 55-gallon drums located along Blue Ridge Street, east of the office building.

Off-Site RECs

- Willwear Hosiery Manufacturing Company, Inc., 360 Blue Ridge Street;
- McDowell County Millwork, 426 West Henderson Street;
- Unlimited Finishings, 512 Carson Street;
- Rock Tenn Marion Folding, 33 Burgin Street;
- Ideal Cleaners, 133 West Henderson Street;
- Library-Main Branch, 100 West Court Street;
- City Food, North Main Street & Fort Street; and
- McDowell Cement, 101 South Garden Street

ECS concluded the following regarding the above referenced RECs identified in the Phase I ESA report based on our review of additional regulatory information:

On-Site RECs

USTs

During the visit to the subject property, ECS observed two USTs located on the central portion of the subject property. The USTs were located beneath a concrete pad surrounded by chain link fencing. ECS observed product piping from the USTs running in a northwestern direction to an unknown location. ECS has not obtained additional information regarding size or installation date(s) of the USTs or plans showing the location of the product piping. The approximate locations of the USTs are depicted on Figure 3.

File reviews conducted for the subject property identified several USTs which have been removed. A summary of the findings is as follows:

According to an Underground Storage Tank Closure Report completed by Shield Environmental Associates, Inc. (Shield) and dated April 23, 1993, there were four USTs removed from the subject property. The USTs consisted of one 1,000-gallon diesel fuel UST, one 6,000-gallon lacquer thinner UST, one 8,000-gallon naptha UST, and one 550-gallon gasoline UST. The diesel fuel, lacquer thinner, and naptha USTs were located between a building and a lumber pile south of the main facility and the gasoline UST was located north of the main facility, near the front gate. The diesel fuel, lacquer thinner, and naptha USTs were removed in mid-October 1992 and the gasoline UST was removed in February 1993. The approximate locations of the USTs are depicted on Figure 3.

Upon removal of the diesel fuel UST, no release was identified. Two soil samples were collected from the base of the excavation and were analyzed for total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO). Laboratory analysis detected concentrations of petroleum below the North Carolina Action Levels.

Upon removal of the lacquer thinner, naptha, and gasoline USTs, odors were identified in the soil indicative of a release and impacted soil was subsequently removed. Ten cubic yards of soil were removed from the bases of each of the lacquer thinner and naptha USTs excavations and 85 cubic yards of soil was removed from the base of the gasoline UST excavation.

Following soil removal associated with the lacquer thinner UST, one soil sample was collected from the base of the excavation and analyzed for RCRA metals, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). In addition, VOCs and SVOCs were also analyzed according to the Toxicity Characteristic Leachate Procedure (TCLP). RCRA metals, VOCs, and SVOCs were not detected at concentrations above the laboratory reporting limits. However, the TCLP VOC and SVOC analysis detected several compounds at concentrations below the Federal TCLP regulatory limits.

Following soil removal associated with the naptha UST, three soil samples were collected from the base of the excavation and analyzed for TPH DRO and GRO. Laboratory analysis detected TPH DRO and GRO at concentrations below the North Carolina Action Levels.

Following soil removal associated with the gasoline UST, two soil samples were collected from the base of the excavation and analyzed for TPH GRO. Laboratory analysis detected concentrations of TPH GRO above the North Carolina Action Level.

The excavations associated with the diesel fuel, lacquer thinner, and naptha USTs were backfilled with clean fill material. The Shield report does not indicate that the gasoline UST excavation was filled with clean fill material. The Shield report does not indicate if the contaminated soils removed from the lacquer thinner, naptha, and gasoline UST excavations were disposed off-site or treated and used on-site.

The report indicates that Shield was conducting additional soil and groundwater assessment activities in the vicinity of the gasoline UST excavation. However, the report associated with the soil and groundwater assessment was not available for review. The Shield Underground Storage Tank Closure

Report is attached. ECS considers the sampling in the vicinity of the diesel, lacquer thinner, and naptha USTs to be sufficient and no additional assessment is recommended.

Additional assessment was conducted in association with the gasoline UST. Six quarterly monitoring reports were completed by ERM-Southeast, Inc. (ERM) and dated from January 16, 1995 through July 1, 1996. The reports indicated at least eleven monitoring wells were installed and the groundwater flow direction was consistently determined to flow toward the south or southeast. Summaries of the quarterly reports are as follows:

January 16, 1995 – The report notes that there are no odors or free product observed in the storm drain located near monitoring well MW-8. Free product of 0.06 feet (0.72 inches) was identified in monitoring well MW-8, located south of the chemical storage building. Monitoring wells MW-1, MW-2, MW-3, MW-7, and MW-9 were sampled during this sampling event. Total benzene, toluene, ethylbenzene, and xylenes (BTEX) was detected in monitoring wells MW-1, MW-2, MW-3, and MW-7. Total BTEX was historically detected in monitoring wells MW-1, MW-2, MW-3, MW-8, MW-11, MW-12, and MW-13. Methyl tery butyl ether (MTBE) was detected in MW-1.

July 13, 1995 – The report notes that a soil vapor extraction/air sparging (SVE/AS) groundwater remediation system was installed at the subject property in May and June 1995. However, the system was not in operation at the time of the report. The report also notes free product seepage was observed at the base of the retaining wall located adjacent to the south wall of the chemical storage building. The seepage, as well as free product previously noted in monitoring well MW-8, appears to be related to a January 1994 release of approximately 2,000 gallons of #2 fuel oil from the Willwear property located to the north of the subject property. Willwear accepted responsibility for the observed seepage and free product. Monitoring wells MW-1, MW-2, MW-3, and MW-9 were sampled during this sampling event. Total BTEX was detected at concentrations lower than historical data in monitoring wells MW-1 and MW-2 and at a concentration higher than historical data in MW-3. MTBE was detected at a higher concentration in monitoring well MW-1 than previously detected and detected in monitoring wells MW-2 and MW-3 where it had not been previously detected.

October 23, 1995 – The report notes the SVE/AS groundwater remediation system began operation on July 25, 1995 and operated continuously since startup. Air emission analytical data collected on September 6, 1995 indicated GRO was being removed from the surficial aquifer at a rate of approximately 3 pounds per day. Monitoring wells MW-1, MW-2, MW-3, and MW-9 were sampled during this sampling event. Total BTEX was detected at concentrations lower than historical data in monitoring wells MW-1, MW-2, and MW-3, with monitoring wells MW-2 and MW-3 exhibiting a dramatic decrease due to the SVE/AS groundwater remediation system. MTBE was identified at lower concentrations in monitoring wells MW-1, MW-2 and MW-3 than previously detected.

January 19, 1996 – The report notes that the SVE/AS groundwater remediation system ceased operation on November 25, 1995 due to a water main rupture. Air emission analytical data collected on November 21, 1995 indicated GRO was being removed from the surficial aquifer at a rate of approximately 0.75 pounds per day. Monitoring wells MW-1, MW-2, MW-3, and MW-9 were sampled during this sampling event. Total BTEX was detected at concentrations higher than historical data in

monitoring wells MW-1, MW-2, and MW-3. MTBE was detected at higher concentrations in monitoring wells MW-1 and MW-2 than previously detected. MTBE was not detected in monitoring well MW-3.

April 10, 1996 – The report notes that the SVE/AS groundwater remediation system began operating again on February 12, 1996. Air emission analytical data collected on February 19, 1996 indicated that GRO was being removed from the surficial aquifer at a rate of approximately 0.37 pounds per day. Monitoring wells MW-1, MW-2, MW-3, and MW-9 were sampled during this sampling event. Total BTEX was detected at concentrations higher than historical data in monitoring well MW-1 and decreased concentrations in monitoring wells MW-2 and MW-3. Benzene was detected in monitoring well MW-9. MTBE was identified at a lower concentration in monitoring well MW-1.

July 1, 1996 – April 10, 1996 – The report notes that the SVE/AS groundwater remediation system operated continuously since starting again on February 12, 1996. Air emission analytical data collected on May 30, 1996 indicated that GRO was being removed from the surficial aquifer at a rate of approximately 1.5 pounds per day. Monitoring wells MW-1, MW-2, MW-3, and MW-9 were sampled during this sampling event. Total BTEX was detected at concentrations higher than historical data in monitoring wells MW-1 and MW-3 and at a decreased concentration in monitoring well MW-2. Benzene and toluene were detected in monitoring well MW-9. MTBE was identified in monitoring wells MW-1, MW-2, MW-3, and MW-9.

The ERM Quarterly Monitoring Reports that ECS reviewed are attached.

On April 21, 1998, the North Carolina Division of Environmental Quality (NCDEQ) provided a Notice of No Further Action (NFA) letter. The NFA was provided based on a report which shows soil contamination is below the industrial/commercial maximum soil contamination concentrations (MSCCs) and groundwater contamination is below the gross contamination levels (GCLs). However, the NFA notes that groundwater is not suitable for use as a water supply. The NCDEQ Notice of NFA letter is attached.

Following the closure of the incident, fourteen monitoring wells (MW1 through MW13, VMW-1), six soil vapor extraction wells (SVE 1-1 through SVE 3-2), and three air sparge wells (AS-1 through AS-3) were abandoned on August 28, 1998. The ERM Monitoring Well Abandonment Records are attached.

Oil-Water Separator
During the visit to the subject property, ECS observed an OWS in the vicinity of the USTs. ECS has not obtained additional information regarding the OWS. The approximate location of the OWS is identified on Figure 3.

ASTs
The Phase I ESA completed by Tetra Tech notes ASTs formerly present at the subject property. On a site plan provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. ECS has not obtained additional information regarding the presence or closure of ASTs.

55-Gallon Drums

During the visit to the subject property, ECS observed 55-gallon drums within an aluminum-clad, steel frame building located on the southwestern corner of the subject property and in the vicinity of the chemical storage building located along Blue Ridge Street, east of the office building. ECS also observed heavy staining at several locations within the aluminum-clad steel frame building. The approximate locations of the observed drums are identified on Figure 3.

The ERM Quarterly Monitoring Reports notes a drum rack located between the former UST and the chemical storage building. The approximate location of the former drum rack is identified on Figure 3.

The facility previously located at the subject property has received several notices of violations (NOVs) during its operation. The records of NOVs begin as early as 1982. The NOVs include lack of training documentation, open drums, storage of hazardous waste longer than 90 days, and burning/incinerating hazardous materials without re-notification of burning/incinerating activities. The facility included the generation of xylene, acetone, methanol, toluene, methyl ethyl ketone, waste oil, and naptha. The inspection reports note drum storage in diked areas located outside the pump house and outside the boiler room. Other drum storage areas include in a small finish room, in a repair/rework room, in a main finish room, and a warehouse.

One specific NOV, dated August 24, 1994 provided by the NCDEQ, identified three areas of concern. One area included drums of unknown waste chemicals, some of which were open and in poor condition. A second area included drums of used oil with releases on a storage pad, the surrounding ground, and into a storm drain. The third area included drums of waste glue which were disposed by being burned. Based on hand written notes and sketches, it appears that the first area is located south of the office building along Blue Ridge Street. However, the locations of the additional two areas noted in the NOV could not be identified. A follow-up inspection conducted on September 28, 1994 indicated the facility is cleaning up the areas, but the NOVs have not been specifically addressed. A re-inspection conducted on December 12, 1994 indicated the containers located at the loading dock, area 1, had been removed, the oil storage pad, area 2, was covered, diked, and included a storage rack for drums, and soil was sampled in the burning/incinerating area, area 3, which indicated that there were no hazardous constituents.

Other

According to a Soil Assessment Report completed by Shield on February 1, 1994, reprocessed #5 fuel oil was stored in a UST; however, the former location of this UST is unknown. At some point in the past, the #5 fuel oil gelatinized in the UST. The fuel oil was removed from the UST and transported to two trenches located on the southeastern portion of the subject property. Each trench measured approximately 20 feet long, 10 feet wide, and 3 feet deep. Prior to placing the fuel oil into the trenches, the trenches were lined with polyethylene sheeting. The fuel oil was then mixed with sawdust and sand and placed in the lined trenches. The mixture was then covered with a thin layer of soil. The location of the burial area is identified on Figure 3. The report indicates that soil samples were collected in the vicinity of the burial area and laboratory analysis detected elevated concentrations of oil and grease compounds. The Shield Soil Assessment Report is attached.

Upon notification of the results to the NCDEQ, they recommended additional soil sampling beneath each of the trenches and the installation and sampling of a monitoring well. Additional reports regarding this sampling were unavailable for review. However, a letter regarding the review of the Soil Excavation Report from the NCDEQ dated May 22, 1995 was available for review. The letter indicates that soil contaminated by the fuel oil release has been removed and thermally treated and the remaining soil is below the allowable limit of 250 parts per million for oil and grease. The letter also indicates that the groundwater obtained from the monitoring well downgradient of the excavation did display concentrations of tentatively identified compounds. The monitoring well was to be scheduled for regular sampling. However, a follow-up letter from the NCDEQ dated May 24, 1995 indicates that additional sampling of the monitoring well will not be required due to the lack of violations of groundwater standards. The NCDEQ provided NFA for the incident. The NCDEQ letters are attached.

Off-Site RECs

Willwear Hosiery Manufacturing Company, Inc.
The Willwear Hosiery Manufacturing Company, Inc. (Willwear) is addressed as 360 Blue Ridge Street and located on the adjoining property to the north, across Blue Ridge Street, and topographically upgradient.

According to an Abbreviated History for Willwear, a release of approximately 2,000 gallons of heating oil occurred on January 21, 1994. The release occurred over a 24-hour period. The summary of the release is attached.

According to a Closure Report dated April 10, 1995 and completed by Alpha Environmental Sciences, Inc. (Alpha), an 8,000-gallon UST and a 550-gallon AST were removed. Laboratory analysis of the soil sampling beneath the UST did not detect TPH DRO or GRO contamination. The two tanks were replaced with an 8,000-gallon AST. An additional Soil Remediation Report dated May 8, 1995 and completed by Alpha indicated approximately 294 tons of contaminated soil removed in the vicinity of the former 550-gallon AST where the release occurred. The soil was treated on-site, analyzed, and used as fill material. The Alpha reports are attached.

As mentioned above in the July 13, 1995 Quarterly Monitoring Report by ERM, it was suspected that the free product identified on the subject property was due to the release from the Willwear property. To assist with delineating this, Alpha proposed to install five monitoring wells, four of which would be installed on the subject property. The request for access to the subject property for the installation of the monitoring wells was denied.

In lieu of installing the monitoring wells on the subject property, Alpha installed three monitoring wells on the Willwear property. According to a Request for Closure dated August 11, 1999 and completed by Alpha, sampling of the monitoring wells was conducted in August 1998, March 1999, and July 1999. Alpha requested a closure of the incident due to analytical results showing concentrations of constituents below the North Carolina Groundwater Quality Standards (NC2LGWQS). The incident has not been closed due to the lack of off-site data. The Alpha report is attached.

McDowell County Millwork
McDowell County Millwork is addressed as 426 West Henderson Street and located on the adjoining property to the southeast, across the railroad right-of-way, and topographically downgradient. Due to the topographic gradient relative to the subject property, ECS does not consider this facility to be a REC.

Rock Tenn Marion Folding
Rock Tenn Marion Folding is addressed as 33 Burgin Street and located approximately 400 feet northeast of the subject property. According to a Rock-Tenn Company: Marion Folding Groundwater Monitoring report dated August 31, 2006 and completed by Conestoga-Rovers & Associates (CRA), four monitoring wells were gauged and sampled. Groundwater flow direction was determined to be toward the southeast, away from the subject property. This groundwater flow direction is consistent with the groundwater flow direction identified at the subject property. Based on the groundwater flow direction, ECS does not consider this facility to be a REC. The CRA report is attached.

Unlimited Finishings
Unlimited Finishings is addressed as 512 Carson Street and located approximately 600 feet south-southwest of the subject property and topographically downgradient. Based on the distance and topographic gradient relative to the subject property, ECS does not consider this facility to be a REC.

Ideal Cleaners
Ideal Cleaners is addressed as 133 West Henderson Street and located approximately 600 feet northeast of the subject property. According to information previously provided regarding groundwater flow direction at the subject property and at the Rock Tenn Marion Folding facility located northwest of the Ideal Cleaners, ECS does not consider this facility to be a REC.

Library-Main Branch
Library-Main Branch is addressed as 100 West Court Street and located approximately 1,100 feet northeast of the subject property. Based on the distance from the subject property, ECS does not consider this facility to be a REC.

City Food
City Food is located at the intersection of North Main Street and Fort Street approximately 1,600 feet northeast of the subject property. Based on the distance from the subject property, ECS does not consider this facility to be a REC.

McDowell Cement
McDowell Cement is addressed as 101 South Garden Street and located approximately 1,800 feet east-northeast. Based on the distance from the subject property, ECS does not consider this facility to be a REC.

INITIAL ASSESSMENT ACTIVITIES

Based on the Phase I ESA and subsequent file review, ECS recommends implementation of initial assessment activities in an effort to determine the presence of gross contamination associated with targeted site sources and gauge the potential existing environmental conditions. It is anticipated that

the scope of work presented below will provide the data needed for entry into the NC Brownfields Program, if applied for, with little necessity for obtaining additional data in the future.

Pre-Assessment Activities

- ECS will prepare a health and safety plan for the proposed activities that will include the anticipated exposure hazards that may be encountered and appropriate personal protective equipment needed during assessment activities. The health and safety plan will also include the location and directions to the closest hospital.
- ECS will contact North Carolina One Call (ULOCO) to identify public underground utilities at the site. **This notification requires 72 hour response time.**
- In accordance with NCDEQ rules, ECS will procure a monitoring well construction permit for the proposed groundwater borings to be advanced on the site. The permit application will be required to be signed by the property owner.
- ECS will contract with a North Carolina licensed driller to advance borings with an air-rotary capable Geoprobe® drill rig to collect soil and groundwater samples.

Soil and Groundwater Assessment

ECS will provide a HAZWOPER Trained Project Professional to observe and document drilling activities, screen the soil, and to collect samples for laboratory analysis. The locations of the proposed soil and groundwater sample locations are depicted on Figure 4.

Soil Assessment Activities

- Up to 16 soil borings will be advanced with the Geoprobe® drill rig. The soil boring will be focused in areas where on-site RECs were identified and where there is the potential for soil impacts to be located in association.
- Soil samples will be collected continuously from the ground surface to the termination depth of each boring for visual observation of impacts, soil characterization, and field screening for relative levels of volatile organic vapors using a photoionization detector (PID). It is anticipated the soil borings will be advanced to approximately 15 feet below the ground surface at each of the boring locations, or the top of the water table, witch ever is encountered first. The soil interval exhibiting the most obvious indications of impact (elevated readings on the PID, staining, petroleum/chemical odors, etc.) will be collected for laboratory analysis. If no obvious indications of impacts are observed, soil samples will be selected from various depths depending on the site location and submitted for laboratory analysis. For example, in the areas of drum storage, soil will be collected from the 0 to 5 foot interval and submitted for laboratory analysis; and in the areas where the USTs and oil water separator are located, soil will be collected from the 10 to 15 foot interval and submitted for laboratory analysis.
- The soil samples will be appropriately packaged and submitted to a North Carolina certified laboratory. The soil samples will be analyzed for VOCs and SVOCs using EPA Methods 8260 and 8270 and total RCRA metals using EPA Method 6010. Two of the 16 soil samples will be collected from areas of the site where historic operations were not conducted to determine background concentrations of metals. These samples will be submitted for laboratory analysis of total RCRA metals only (including hexavalent chromium).

Groundwater Assessment Activities

- Up to ten of the soil borings will be converted to monitoring wells by advancing the boring with the Geoprobe® drill rig to a depth of five to seven feet into the water table. If refusal in rock is encountered prior to reaching groundwater, air drilling may be required. It is not guaranteed groundwater will be obtained if air rotary drilling is required. The monitoring wells will be installed in locations where on-site RECs were identified. Based on the monitoring wells installed in association with the UST assessment, the depth to groundwater was encountered between 10 and 15 feet below the ground surface; however, it should be noted these wells were installed in one area of the site and the depth to groundwater may be deeper on other portions.
- A two-inch diameter Schedule 40 PVC monitoring well will be installed in each of the borings. The wells will be installed with ten feet of slotted PVC screen (0.01-inch slot widths) positioned to intersect the water table estimated at the time of drilling. Clean silica sand will be placed around the bottom of the well and extended to two feet above the top of the well screen. A two foot bentonite seal will be placed above the sand and the remaining borehole annulus will be filled with a cement/bentonite mixture. The wells will be completed with a stand-up protective, lockable well casing with a two-by-two foot concrete pad.
- Each monitoring well will be developed to remove sand, silt, and other sediment from the well and to promote communication between the well and the water table aquifer. Once the wells have been developed, a groundwater sample will be collected from each using a bailer or peristaltic pump.
- The relative top of well casing and ground surface elevations of the monitoring wells will be surveyed and the water levels will be measured to assess the direction of groundwater flow across the site.
- The groundwater samples will be appropriately packaged and submitted to a North Carolina certified laboratory to be analyzed for VOCs and SVOCs using EPA Methods 8260 and 8270, respectively and RCRA Metals using EPA Method 6010.
- Upon completion of field activities, soil borings will be properly abandoned. Depending on the desires of the NCDEQ, the monitoring wells will also be properly abandoned.

Reporting

- ECS will prepare a summary report documenting our sampling activities, the results obtained, and our conclusions and recommendations. The report will include, at a minimum, a detailed description of our field activities, soil boring logs and well construction diagrams, a tabular summary of the laboratory analysis for the soil and groudwater samples, a discussion of the laboratory results, findings, and conclusions. The report will also include a figure showing the sample locations. Other figures showing the distribution of targeted constituents may be included as applicable.

ECS appreciates the opportunity to provide our environmental services for this project. ECS also appreciates your timely review and comments on the intiial assessment activities. We will be happy to facilitate a conference call at your convenience to discuss your thoughts.

If you have questions or need additional information, please contact us.

Respectfully,

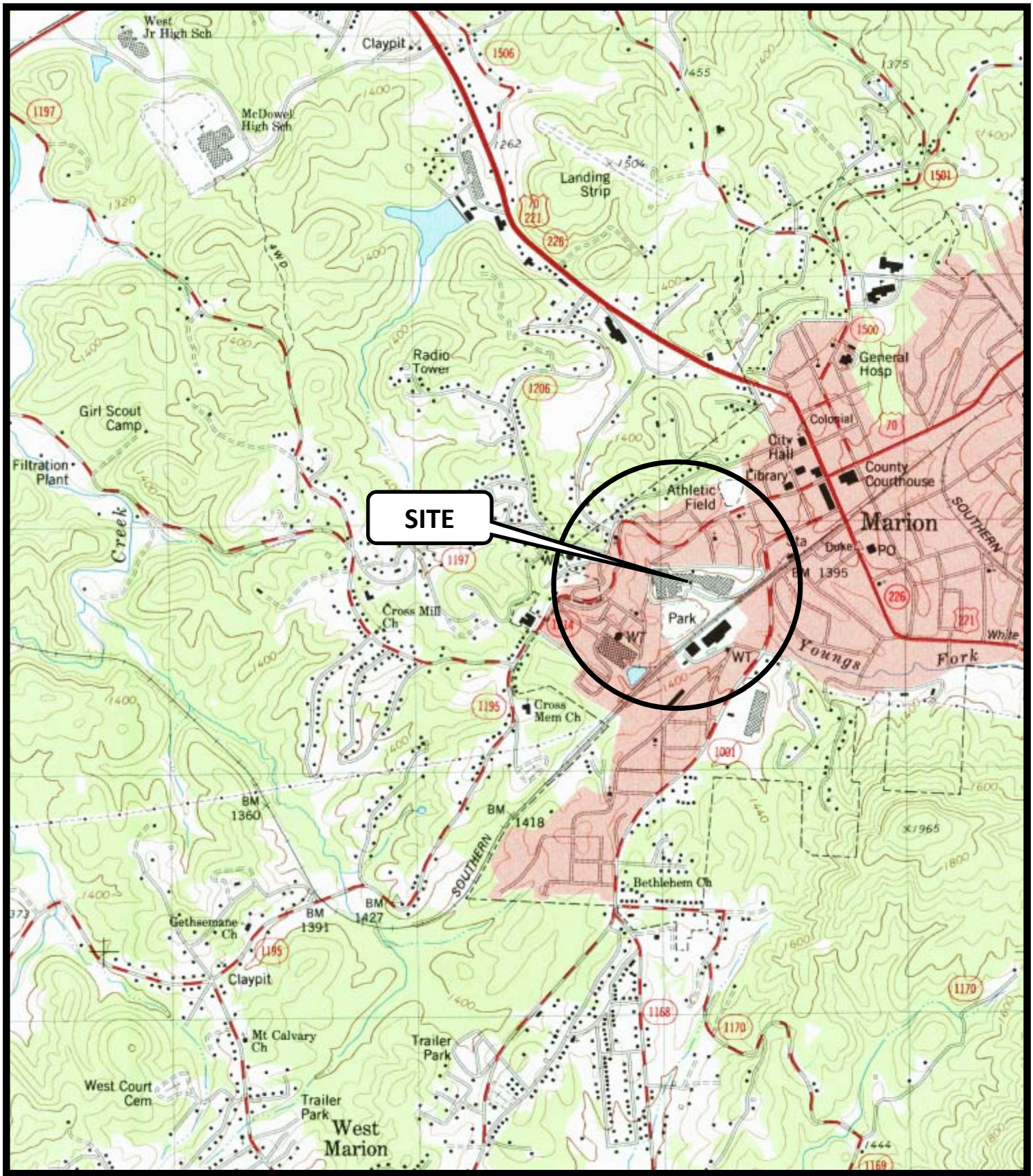
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Attachments: Figures
Ust Closure Reports, Shield
Quarterly Monitoring Reports, ERM
UST Closure Notice of NFA, NCDEQ
Monitoring Well Abandonment Records, ERM
Furnishings International Site Plan
NOV Documentations, NCDEQ
Soil Assessment Report, Shield
Review of Soil Excavation Report, NCDEQ
No. 5 Fuel Oil Area NFA, NCDEQ
Willwear Abbreviated History, NCDEQ
Closure Report, Alpha
Soil Remediation Report, Alpha
Request for Closure, Alpha
Rock-Tenn Company: Marion Folding Groundwater Monitoring, CRA



SOURCE:

USGS TOPOGRAPHIC MAP
MARION WEST, NORTH CAROLINA QUADRANGLE
DATED 1985

SCALE: 1" = 2,000'

FIGURE 1
SITE LOCATION MAP

FORMER DREXELFACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978

LEGEND

1 WILLWEAR HOSIERY MANUFACTURING COMPANY, INC.
2 MCDOWELL COUNTY MILLWORK
3 UNLIMITED FINISHINGS
4 ROCK TENN MARION FOLDING
5 IDEAL CLEANERS



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 500 FEET

FIGURE 2
AERIAL MAP AND OFF-SITE RECS

FORMER DREXELFACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 3
SITE DETAIL MAP AND ON-SITE RECS

FORMER DREXELFACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 4
PROPOSED SAMPLE LOCATION MAP

FORMER DREXELFACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978

MCCO
DREXEL HERITAGE FURNISHINGS
FCH 5/17/93

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

CAROLINA BUSINESS CENTER
2848 I-85 SOUTH, SUITE H
CHARLOTTE, NC 28208
(704) 394-6913
1-800-395-5220
FAX: (704) 394-6968

May 14, 1993

MASLO

Mr. Fred Hankinson
Department of Environment, Health and Natural Resources
Division of Environmental Management
Groundwater Section
Asheville Regional Office
59 Woodfin Place
Asheville, North Carolina 28801

GW

Reference: Two Underground Storage Tank Closure Reports
Drexel Heritage Furnishings
Plant 2, Marion, North Carolina
Plant 43, Hildebran, North Carolina

Dear Mr. Hankinson,

Enclosed you will find one bound copy of each of the above referenced report. Please call Steven M. Burrows with any comments or questions.

Sincerely,

Lynn M. Trenning
Project Coordinator

Good
Steve Burrows
wait on
new analysis
soil brings
PURE
Thanks

RECEIVED
MAY 17 1993
Groundwater Section
Asheville Regional Office

Underground Storage Tank Closure Report
Drexel Heritage Furnishings, Inc.
Plant #2
Marion, North Carolina

Shield Job Number 930020

April 23, 1993

Prepared For:

Drexel Heritage Furnishings, Inc.
Morganton, North Carolina

RECEIVED
MAY 17 1993
GROUNDWATER SECTION
ASHEVILLE REGIONAL OFFICE

Prepared By:

Shield Environmental Associates, Inc.
Charlotte, North Carolina

Underground Storage Tank Closure Report
Drexel Heritage Furnishings, Inc.
Plant #2
Marion, North Carolina

Shield Job Number 930020

April 23, 1993

1 Introduction

1.1 Background

Drexel Heritage Furnishings, Inc. (Drexel) owns and operates a furniture manufacturing facility located in Marion, North Carolina (see Figure 1 for site location). During late 1992 and early 1993, Drexel retained STAT, Inc. (STAT) of Lenoir, North Carolina to excavate and remove four underground storage tanks (USTs) at the facility. Subsequently, Drexel contracted Shield Environmental Associates, Inc. (Shield) to prepare a UST closure report for the site. The following report addresses the STAT UST closure activities, STAT's UST closure soil sampling results and Shield's conclusions and recommendations regarding the site.

1.2 UST Capacities, Contents, and Locations

The USTs that were closed consisted of one 1,000 gallon capacity diesel fuel tank, one 6,000 gallon capacity lacquer thinner tank, one 8,000 gallon capacity naptha tank, and one 550 gallon unleaded gasoline tank.

The diesel fuel, lacquer thinner and naptha USTs were located at the south side of the plant between Building Number 9 and the lumber storage area (see Figure 2 for tank locations). The diesel UST was used to store fuel which was transferred to equipment at the site via a dispenser pump formerly located above the tank. The diesel fuel UST, and associated piping and dispenser pump were approximately 12 years old when they were excavated and removed. The lacquer thinner and naptha USTs were used to supply product to the plant for furniture finishing and were connected to the plant via underground piping. The lacquer thinner and naptha tanks were approximately 30 years old when they were excavated and removed. The gasoline UST was located at the north side of the facility near the front gate (see Figure 2 for tank location). The gasoline UST was used to store fuel that was dispensed to Drexel service vehicles and equipment at the site via a dispenser pump that was located at the tank location. The gasoline UST, and the associated piping and dispenser pump were approximately 12 years old when they were excavated and removed.

1.3 Notification of Intent to Close the USTs

Drexel completed and filed a Notice of Intent for permanent UST closure with the Department of Environment, Health, and Natural Resources (DEHNR), Division of Environmental Management (DEM), Asheville Regional Office (ARO) approximately 30 days prior to the initiation of field activities at the site (see Appendix A, form GW/UST-3).

2 Field Activities

2.1 Tank Pumping and Disposal, Product Disposal, and Tank Inerting

The UST pumping, residual product disposal, and tank disposal activities were carried out by STAT personnel. According to Mr. Garry Sparks of STAT, prior to excavation and removal STAT personnel inerted all the USTs using dry ice. The tanks were then checked for the presence of explosive vapors using a lower explosion limit instrument. When the tanks were judged sufficiently inerted, they were excavated and removed.

2.2 Diesel Fuel UST - Tank removal and Soil Sample Results

Based on our conversations with Mr. Sparks of STAT, during mid-October 1992, STAT personnel excavated and removed the diesel fuel UST system. No product odors were detected during removal activities. To check the condition of the soil beneath the UST, STAT personnel used a backhoe to collect two soil samples from the excavation pit at a depth of approximately 9 feet below grade. Soil samples DH-2001 and DH-2002 were placed in laboratory supplied glassware, marked with sample number, time, date, and constituent for which to be analyzed (see Figure 3 for diesel fuel UST pit soil sample locations). The samples were then placed in an ice-filled cooler, chilled to approximately 4° C and delivered to the analytical laboratory using EPA approved chain of custody procedures. At the laboratory, the diesel fuel UST pit soil samples were analyzed for total petroleum hydrocarbon (TPH) compounds by gas chromatograph according to SW-846 Extraction Methods 3550 and 5030. Sample results indicate sample DH-2001 exhibited 1.0 milligram per kilogram (mg/kg) of gasoline range TPH compounds. No other TPH compounds were detected in the soil samples. Sample results are summarized in Table 1 and laboratory documentation is presented in Appendix B. Subsequent to tank removal the diesel UST pit was backfilled using "clean" fill material.

2.3 Lacquer Thinner UST - Tank Removal and Soil Sample Results

During mid-October 1992, STAT personnel excavated and removed the lacquer thinner UST. According to Mr. Sparks of STAT, the soil overlying the lacquer thinner tank possessed a distinct solvent odor. This soil was placed on and covered with polyethylene sheeting at the site. Based on our communications with a representative of Drexel, approximately 10 cubic yards of soil were stockpiled at the site.

To check the condition of the soil beneath the tank, STAT personnel collected one soil sample at approximately 13 feet below grade from the center of the excavation pit. Soil sample DH-2004 [210-1857] was collected and handled according to the procedures outlined in Section 2.2 (see Figure 3 for lacquer thinner UST soil sample location). ***(STAT personnel labeled two soil samples with the sample number DH-2004. One sample was collected from the naptha pit and one sample was collected from the lacquer thinner pit. These samples have been identified with STAT sample number followed by the laboratory analysis number in square brackets to avoid confusion. For the remainder of this text, sample DH-2004 [210-1857] refers to the sample collected from the lacquer thinner pit and DH-2004 [210-1821d] refers to the sample collected from the naptha pit).*** At the laboratory the soil sample was analyzed for RCRA metals, volatiles and semivolatiles according to the Toxicity Characteristic Leachate Procedure (TCLP). In addition, the sample was also analyzed for volatiles and semivolatiles according to the standard methods, SW-846 Methods 8240 and 8720 base/neutral/acid extractable compounds. Results for the TCLP analyses indicate the sample exhibited 0.002 mg/L of arsenic, 0.010 mg/L of cadmium, 0.14 mg/L of lead, 0.003 mg/L of benzene and 0.001 mg/L of chloroform. No TCLP compound detected exceeded the Federal TCLP regulatory limit. Sample results for SW-846 volatiles and semivolatiles analysis indicate no compounds were detected above the laboratory quantitation limits. The STAT UST pit soil sample results are summarized in Table 2 and laboratory documentation is provided in Appendix B. Subsequent to tank removal and sampling the UST pit was backfilled using "clean" fill material.

2.4 Lacquer Thinner UST - Soil Stockpile Sample Results

During late January 1993, STAT personnel sampled the soil stockpile generated during the lacquer thinner UST removal. Soil sample DH-2009 was collected and handled according to the procedures outlined in Section 2.2. At the laboratory the soil sample was analyzed for TCLP volatiles. Results for the TCLP volatiles analysis indicate the sample exhibited 0.024 mg/L of chloroform and no other compounds. The chloroform TCLP value does not exceed the Federal TCLP regulatory limit. The STAT soil stockpile sample results are summarized in Table 2, and laboratory documentation is provided in Appendix B.

2.5 Naptha UST - Tank Removal and Soil Sample Results

During mid-October 1992 STAT personnel excavated the soil above the naptha UST. According to Mr. Sparks of STAT, the soil overlying the naptha tank possessed a distinct petroleum odor. This soil was placed on and covered with polyethylene sheeting at the site. Based on our communications with a representative of Drexel, approximately 10 cubic yards of soil were stockpiled at the site.

To check the condition of the soil beneath the tank, STAT personnel collected three soil samples from the excavation pit at approximately 13 feet below grade. Soil samples DH-2003 through DH-2005 were collected and handled according to the procedures outlined in Section 2.2 (see Figure 3 for naptha UST soil sample locations). At the laboratory the soil samples were analyzed for TPH by gas chromatograph according to SW-846 Extraction Methods 3550 and 5030. Results for the TPH analyses indicate that samples DH-2004 [210-1821D] and DH-2005 exhibited 1.5 mg/kg and 1.2 mg/kg of gasoline range TPH compounds, respectively. No other TPH compounds were detected in the samples. The STAT UST pit soil sample results are

summarized in Table 3, and laboratory documentation is provided in Appendix B. Subsequent to tank removal and sampling the UST pit was backfilled using "clean" fill material.

2.6 Gasoline UST - Tank Removal and Soil Sample Results

During early February 1993 STAT personnel excavated and removed the gasoline UST, and the associated piping and pump (see Figure 2 for gasoline UST location). During excavation of the gasoline UST, STAT personnel noted gasoline odors emanating from the removed soil. The final pit dimensions were 13 feet by 16 feet by 11 feet deep. A total of approximately 85 cubic yards of suspected petroleum contaminated soil were generated, stockpiled on and covered with polyethylene sheeting at the site. After tank removal, STAT personnel collected two soil samples, DH-2009 and DH-2010, from the UST excavation pit at a depth of approximately 9 feet below grade (see Figure 4 for soil sample locations). These samples were prepared and delivered to the laboratory as described in Section 2.2. At the laboratory both soil samples were analyzed for TPH compounds by gas chromatograph according to SW-846 Extraction Method 5030. Results for samples DH-2009 and DH-2010 exhibited 1,313 mg/kg and 1,499 mg/kg of gasoline range TPH, respectively. The gasoline UST pit bottom soil sample results are summarized in Table 4, and laboratory documentation is provided in Appendix B.

3 Conclusions

STAT personnel conducted UST closure and soil sampling activities at UST locations at the Drexel plant located in Marion, North Carolina. Subsequently, Drexel contracted Shield to prepare the UST closure report. Based on the field activities conducted by STAT, the soil laboratory analytical results, and Shield's experiences at similar sites, we conclude the following:

- Laboratory analytical results for the former diesel fuel and naptha UST pits indicate that low levels of TPH contamination are present in the soil beneath the former tank locations. However, soil results also indicate that the TPH contamination remaining in-place is below the North Carolina Soil Action Level of 10 parts per million (ppm) of gasoline range TPH. Based on the soil sample results, it appears that "clean" closure has been achieved.

- TCLP laboratory analytical results for the former lacquer thinner UST pit bottom sample indicate low levels of metals and volatile compounds are present in the soil beneath the former tank location. However, the TCLP metals and volatiles at the former lacquer thinner UST pit do not exceed the Federal TCLP regulatory limits. Based on the TCLP sample results it appears that soil beneath the former lacquer thinner UST location does not constitute a TCLP characteristic hazardous waste.

- SW-846 laboratory analytical results for the lacquer thinner UST pit bottom sample indicate no volatile or semivolatile compounds above the laboratory quantitation limits. Based on the lacquer thinner UST pit bottom soil sample results, it appears that "clean" closure has been achieved.

- TCLP laboratory analytical results for the lacquer thinner soil stockpile indicate chloroform was the only compound detected. The level of chloroform in the sample does not exceed the Federal TCLP regulatory limit. Based on the TCLP sample results it appears that the lacquer thinner soil stockpile does not constitute a TCLP characteristic hazardous waste.

- Laboratory analytical results for former gasoline UST pit bottom soil samples indicate gasoline range TPH contamination is present at 1,313 mg/kg and 1,499 mg/kg. The gasoline UST sample results exceed the North Carolina Soil Action Level of 10 ppm of gasoline range TPH contamination.

- Drexel has contracted Shield to advance soil borings and install three shallow groundwater monitoring wells in the immediate area of the former gasoline UST location. At the time of this report, a total of two soil borings and three monitoring wells have been installed and sampled. Shield is currently evaluating the soil and groundwater sample results and will prepare an assessment report for Drexel. Based on our contact with a representative of Drexel, a copy of the soil and groundwater assessment report will be forwarded to the DEM, ARO subsequent to review by Drexel.

Based on the above stated conclusions, Shield recommends the following actions:

- Based on the soil sample results from the diesel fuel, lacquer thinner and naptha UST pits, Shield recommends no further assessment activities. In addition, we recommend that the DEM, ARO consider these former UST locations for permanent site closure.

- Based on the soil sample results from the gasoline UST location, Shield is currently conducting soil and groundwater assessment activities at the site. Based on the scope of the work, we believe that a soil and groundwater assessment report will be delivered to Drexel within the next 30 days.

- Shield recommends that the gasoline/naptha soil stockpile be sampled for gasoline range TPH compounds. If the results of the sample indicate TPH contamination at less than 10 mg/kg, Shield recommends that Drexel apply to the DEM, ARO for a soil disposal certificate so that the stockpile can be spread on-site. However, if the results indicate TPH is greater than 10 mg/kg, Shield recommends that the soil be disposed of in an environmentally sound manner, or that the soil stockpile be remediated to less than 10 mg/kg of TPH.

- Shield recommends that Drexel contact the DEM, ARO and/or the North Carolina, DEHNR, Division of Solid Waste Management regarding the ultimate fate of the lacquer thinner soil stockpile.

- A copy of this UST closure report should be submitted to the DEM, ARO, Groundwater Section at the following address:

  Mr. Fred Hankinson
  Department of Environment, Health and Natural Resources
  Division of Environmental Management
  Groundwater Section
  Asheville Regional Office
  59 Woodfin Place
  Asheville, North Carolina 28801

5 Limitations

This report has been prepared for the exclusive use of Drexel Heritage Furnishings, Inc. and Drexel's parent company Masco Home Furnishings, Inc. This report was prepared for specific application to the referenced site located in Marion, North Carolina. The STAT work summaries were based on our conversations with Mr. Garry Sparks of STAT, the materials that STAT and Drexel supplied Shield, and our conversations with Drexel employees. In addition, Shield's reporting was based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted industry practices, the available information, and our professional judgment. The data presented in this report is indicative of conditions that existed at the precise locations sampled and at the time the sample was collected. The data obtained from the sampling is meaningful with respect to parameters indicated in the laboratory report. No other additional information can logically be inferred from this data. No effort has been made to misrepresent the conditions at the site. No other warranty is expressed or implied.

Tables

Table 1. **STAT, Inc. Laboratory Analytical Results for Soil Samples, Former Diesel UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina, October 14, 1992.**

Soil Sample Number	Depth (feet)	Total Petroleum Hydrocarbons SW-846 Extraction Methods 3550 (mg/kg)	5030 (mg/kg)
DH-2001	9	BDL	1.0
DH-2002	9	BDL	BDL

mg/kg *milligrams per kilogram*
BDL *Below Laboratory Quantitation Limit of 1.0 mg/kg of TPH*

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Table 2. **Laboratory Analytical Results for Soil Samples, Former Lacquer Thinner UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina.**

Soil Sample Number	Depth (feet)	TCLP Compounds (mg/L)	Semivolatiles SW-846 Method 8270 BNA (µg/kg)	Volatiles SW-846 Method 8240 (µg/L)*
STAT UST PIT Soil Sample Results (10-20-92)				
DH-2004 [210-1857]	13	0.002 (Arsenic) 0.010 (Cadmium) 0.14 (Lead) 0.003 (Benzene) 0.001 (Chloroform) BDL (All Other Analytes)	BDL	BDL
STAT UST Soil Stockpile Sample Results (1-25-93)				
DH-2009	composite	0.024 (Chloroform) BDL (All Other Analytes)	NA	NA

TCLP *Toxicity Characteristic Leachate Procedure*
mg/L *milligrams per liter*
*(µg/L)** *micrograms per liter(?). Apparently, the laboraotory erroneously reported the soil Method 8240 results in µg/L instead of µg/kg.*
NA *Not Analyzed*
BDL *Below Laboratory Detection Limits*

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Table 3. **STAT, Inc. Laboratory Analytical Results for Soil Samples, Former Naptha UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina, October 15, 1992.**

Soil Sample Number	Depth (feet)	Total Petroleum Hydrocarbons SW-846 Extraction Methods 3550 (mg/kg)	5030 (mg/kg)
DH-2003	13	BDL	BDL
DH-2004	13 [210-1821D]	BDL	1.5
DH-2005	13	BDL	1.2

mg/kg *milligrams per kilogram*
BDL *Below Laboratory Quantitation Limit of 1.0 mg/kg of TPH*

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Table 4. **STAT, Inc. Laboratory Analytical Results for Soil Samples, Former Gasoline UST Location, Drexel Heritage Furnishings, Inc., Plant #2, Marion, North Carolina, February 2, 1993.**

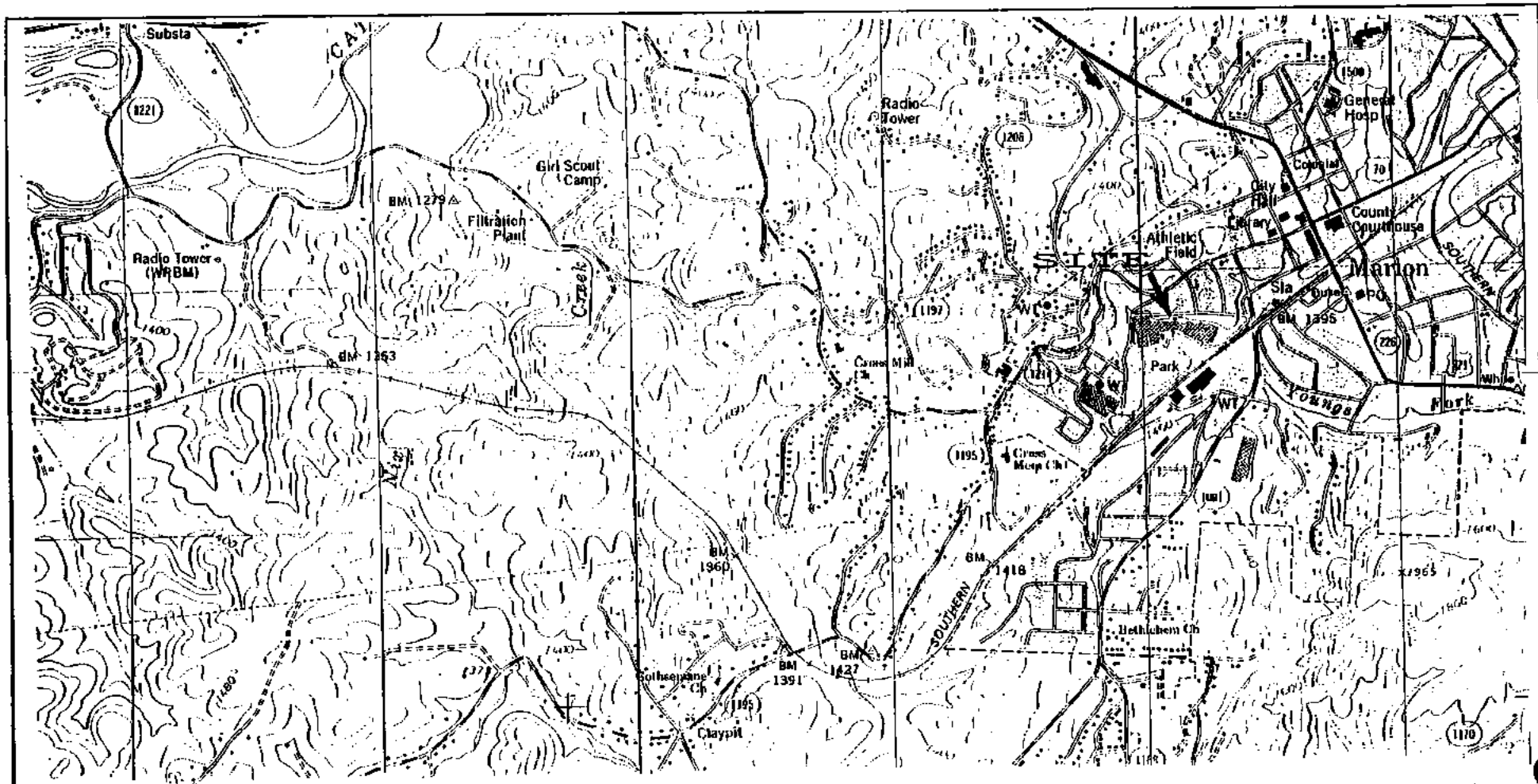
Soil Sample Number	Depth (feet)	Total Petroleum Hydrocarbons SW-846 Extraction Method 5030 (mg/kg)
DH-2009	9	1,313
DH-2010	9	1,499

mg/kg milligrams per kilogram

Analytical Laboratory: *Blue Ridge Labs, Inc.*
Lenoir, North Carolina

Shield Job Number 930020

Figures



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

MN GN

4° 71 MILS 0°37' 11 MILS

UTM GRID AND 1985 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

N.C.

QUADRANGLE LOCATION

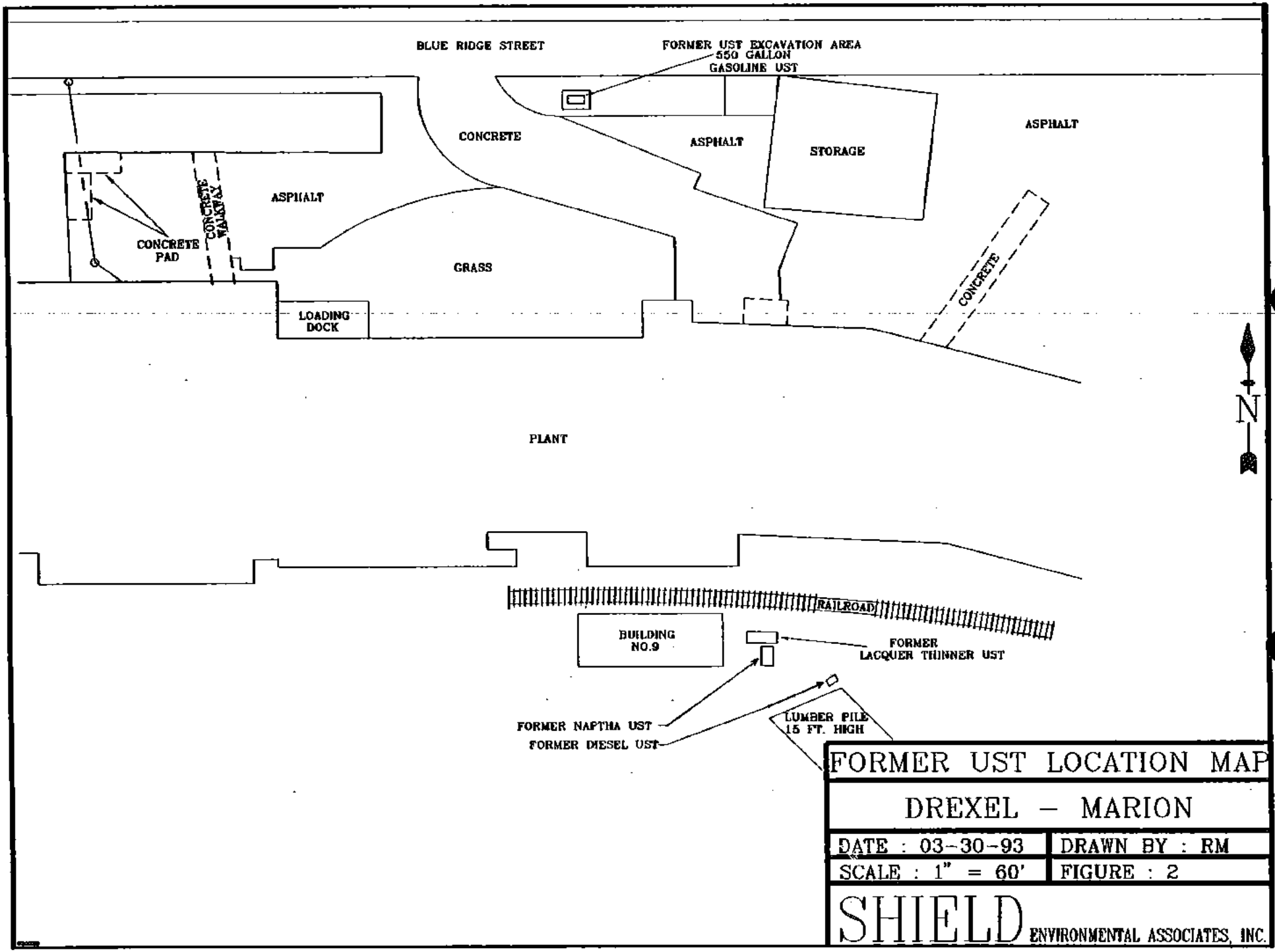
MARION WEST, N. C.

SITE LOCATION MAP

DREXEL - MARION

DATE : 04-16-93	DRAWN BY : RM
SCALE : AS SHOWN	FIGURE : 1

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

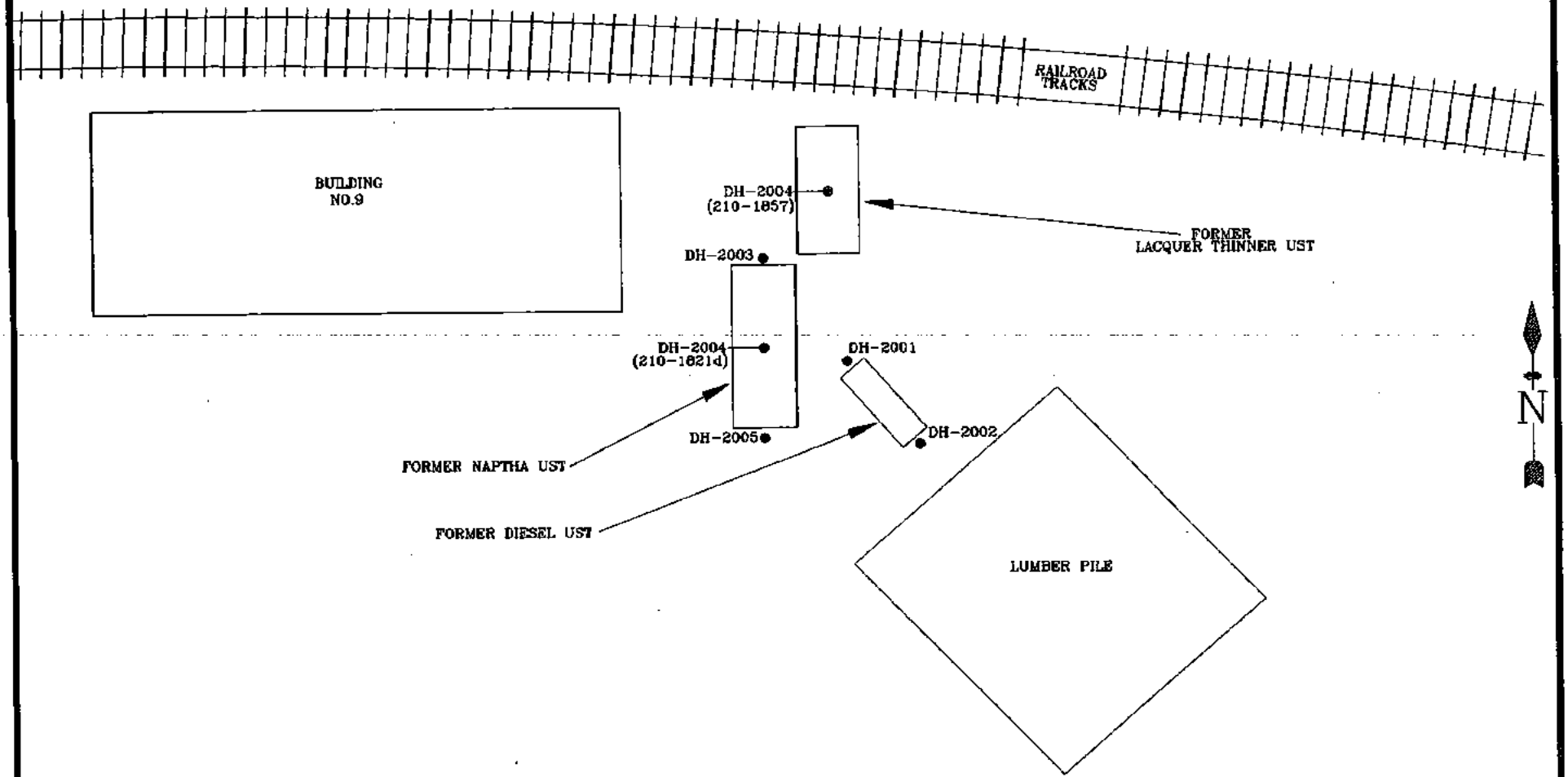


FORMER UST LOCATION MAP

DREXEL – MARION

DATE : 03-30-93	DRAWN BY : RM
SCALE : 1" = 60'	FIGURE : 2

SHIELD ENVIRONMENTAL ASSOCIATES, INC.



LEGEND :

● SOIL SAMPLE LOCATION

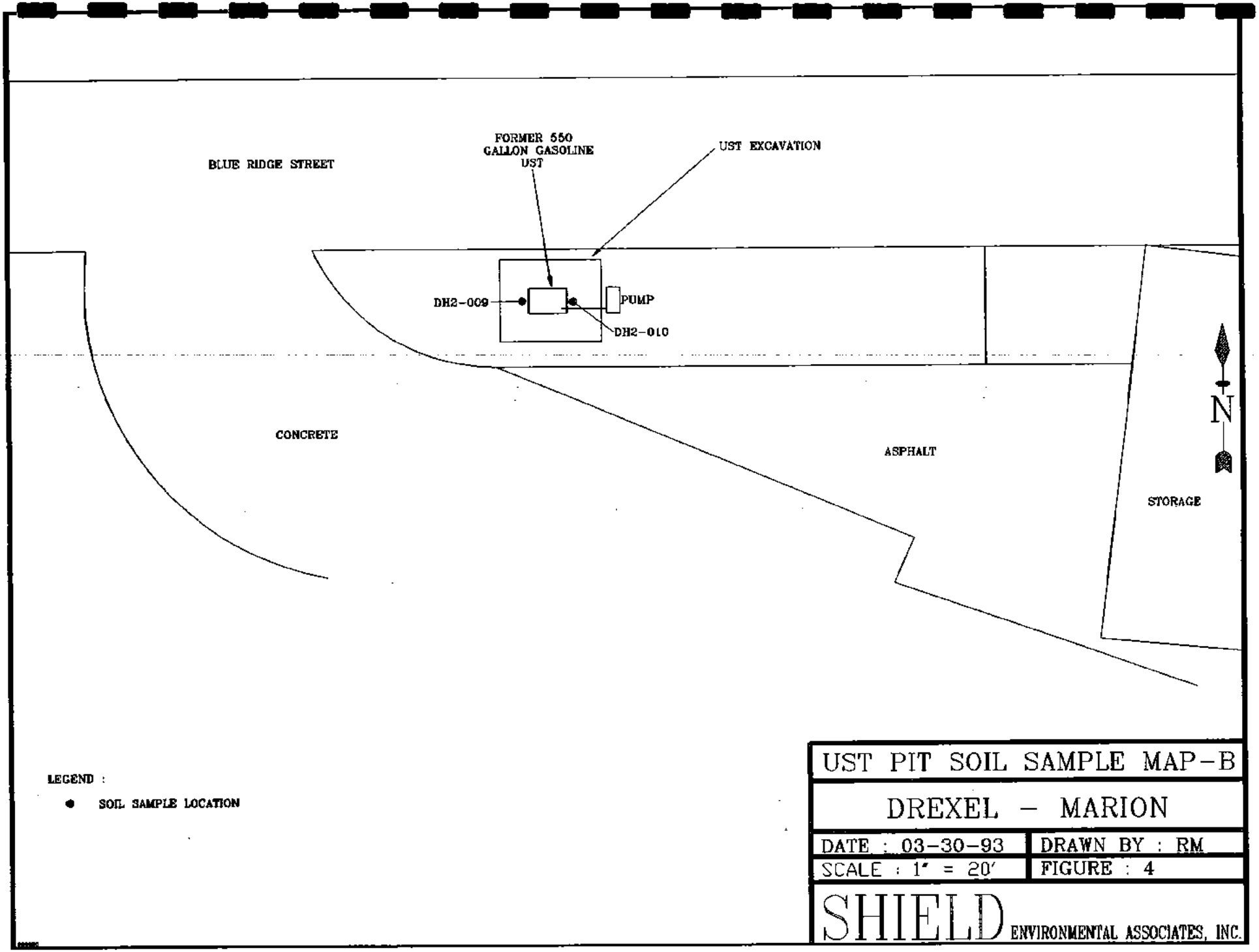
(210-1857) BLUE RIDGE LABS ANALYSIS NUMBER

UST PIT SOIL SAMPLE MAP-A

DREXEL - MARION

DATE : 03-30-93	DRAWN BY : RM
SCALE : 1" = 20'	FIGURE : 3

SHIELD ENVIRONMENTAL ASSOCIATES, INC.



LEGEND :

● SOIL SAMPLE LOCATION

UST PIT SOIL SAMPLE MAP-B

DREXEL - MARION

DATE : 03-30-93	DRAWN BY : RM
SCALE : 1" = 20'	FIGURE : 4

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Notice of Intent: UST Permanent Closure or Change-In-Service

FOR TANKS IN **NC**

Return Completed Form To: The appropriate DEM Regional Office according to the county of the facility's location. (SEE REVERSE SIDE OF OWNER'S COPY (BLUE) FOR REGIONAL OFFICE ADDRESS).

State Use Only
I. D. Number _____
Date Received _____

INSTRUCTIONS
Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)

Tank Owner Name: DREXEL HERITAGE FURNISHINGS, INC.
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 201 N. MAIN ST.
County: BURKE
City: DREXEL State: N.C. Zip Code: 28619
Tele. No. (Area Code): 704/433-3000

II. LOCATION OF TANK(S)

Facility Name or Company DREXEL HERITAGE #T-2
Facility ID # (if available) _____
Street Address or State Road: 361 BLUE RIDGE ST.
County: McDOWELL City: MARION Zip Code: 28752
Tele. No. (Area Code): 704/652-2535

III. CONTACT PERSON

Name: STANLEY B. CARTER Job Title: FACILITIES ENGINEER Telephone Number: (704) 438-5604

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. If Removing Tanks or Closing in Place refer to API Publications. 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
7. Keep records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: STAT, INC.
Address: P.O. Box 1443 LENOIR State: N.C. Zip Code: 28645
Contact: GARY SPARKS Phone: (704)-396-2304

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY: CLOSURE – Removal	CLOSURE – Abandonment In Place	CHANGE-IN-SERVICE – New Contents Stored
2-05	550 GAL.	GASOLINE	☑	☐	
2-06	1,000 GAL.	DIESEL	☑	☐	
2-08	6,048 GAL.	THINNER	☑	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title
STANLEY B. CARTER FACILITIES ENGINEER
*Scheduled Removal Date: 6/1/92
Signature: Stanley B Carter
Date Submitted: 5/5/92

*If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

GW/UST-3 Rev.3/91 White Copy - Regional Office Yellow Copy - Central Office Blue Copy - Owner

(GW/UST-3) **Notice of Intent: UST Permanent Closure or Change-In-Service**

FOR TANKS IN **NC**

Return Completed Form To: The appropriate DEM Regional Office according to the county of the facility's location. [SEE REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I. D. Number
Date Received

INSTRUCTIONS

Complete and return thirty (30) days prior to closure or change-in-service.

I. OWNERSHIP OF TANK(S)

Tank Owner Name: DREXEL HERITAGE FURNISHINGS, INC
(Corporation, Individual, Public Agency, or Other Entity)
Street Address: 201 N. MAIN ST
County: BURKE
City: DREXEL State: N.C. Zip Code: 28619
Tele. No. (Area Code): 704/433-3000

II. LOCATION OF TANK(S)

Facility Name or Company: DREXEL HERITAGE PLT. 2
Facility ID # (if available): 0-013291
Street Address or State Road: 361 BLUE RIDGE ST.
County: McDOWELL City: MARION Zip Code: 28752
Tele. No. (Area Code): 704/652-2535

III. CONTACT PERSON

Name: STANLEY B. CARTER Job Title: FACILITIES ENGINEER Telephone Number: (704) 438-5604

IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

1. Contact Local Fire Marshall.
2. Plan the entire closure event.
3. Conduct Site Soil Assessments.
4. If Removing Tanks or Closing in Place refer to API Publications. 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
5. Provide a sketch locating piping, tanks and soil sampling locations.
6. Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
7. Keep records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: STAT, INC.
Address: PO Box 1443 LENOIR State: N.C. Zip Code: 28645
Contact: GARY SPARKS Phone: 704/396-2304

VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY: CLOSURE – Removal	CLOSURE – Abandonment In Place	CHANGE-IN-SERVICE – New Contents Stored
2-23	8,000 GAL	NAPTHA	✓		

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title: STANLEY B. CARTER FACILITIES ENGINEER
*Scheduled Removal Date: 6/1/92
Signature: Stanley B. Carter
Date Submitted: 5/28/92

*If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date.

GW/UST-3 Rev.7/29/91 White Copy - Regional Office Yellow Copy - Central Office Pink Copy - Owner

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings, Inc.
Accounts Payable Dept.
Drexel, NC 28619

Copy to: STAT, Inc.

DATE RECEIVED: October 15, 1992

DATE REPORTED: October 20, 1992

SAMPLE NUMBER	SAMPLE DESCRIPTION
210-1821A	Soil; DH #2-001 for 5030, 3550
210-1821B	Soil; DH #2-002 for 5030, 3550
210-1821C	Soil; DH #2-003 for 5030, 3550
210-1821D	Soil; DH #2-004 for 5030, 3550
210-1821E	Soil; DH #2-005 for 5030, 3550

PARAMETER	RESULTS	MDL	DATE ANALYZED
210-1821A - 5030	1.0	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92
210-1821B - 5030	*	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92

INVOICE 92-1610
$1,100
APPROVED 10/29/92

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER	RESULTS	MQL	DATE ANALYZED
210-1821C - 5030	*	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92
210-1821D - 5030	1.5	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92
210-1821E - 5030	1.2	1.0 mg/kg	10/18/92
- 3550	*	1.0 mg/kg	10/16/92

REPORTED BY:

D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

910-1821A-F



CHAIN OF CUSTODY RECORD

SAMPLE ID: DH#2-001
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-14-92 TIME SAMPLED: 11:30
TESTS REQUESTED: Dis Fuel

PRESERVATIVE: Ice
SIGNATURE: Leary Lpah

SAMPLE ID: DH#2-002
TYPE OF SAMPLE: Drexel Heritage #2
LOCATION: Drexel Heritage
DATE SAMPLED: 10-14-92 TIME SAMPLED: 11:50
TESTS REQUESTED: Dis Fuel

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

SAMPLE ID: DH#2 003
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-15-92 TIME SAMPLED: 2:02pm
TESTS REQUESTED: #2 Fuel Oil

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

RELINQUISHED BY: Leary Lpah DATE 10-15-92

SAMPLE ID: DH#2-004
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-15-92 TIME SAMPLED: 2:05
TESTS REQUESTED: #2 Fuel Oil

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

SAMPLE ID: DH#2 005
TYPE OF SAMPLE: Oil
LOCATION: Drexel Heritage #2
DATE SAMPLED: 10-15-92 TIME SAMPLED: 2:05 pm
TESTS REQUESTED: #2 Fuel Oil

PRESERVATIVE: ICE
SIGNATURE: Leary Lpah

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

RELINQUISHED TO:

NOTE: Use back for additional information and maps.

3/25/93

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings
211 East Fleming Dr.
Morganton, NC 28655

Attention: Mr. S. Carter
Copy To: Mr. G Sparks; STAT, Inc.

DATE RECEIVED: October 21, 1992

DATE REPORTED: November 12, 1992

Hole where thinner tank was removed

SAMPLE NUMBER	SAMPLE DESCRIPTION
210-1857	Soil; DH #2-004 for TCLP Metals, TCLP VOC, TCLP SV, 8240, 8270

PARAMETER		RESULTS	MQL		DATE ANALYZED
210-1857	TCLP Metals				
	As	0.002	0.001	mg/l	10/26/92
	Ba	*	0.10	mg/l	10/26/92
	Cd	0.010	0.001	mg/l	10/26/92
	Cr	*	0.01	mg/l	10/26/92
	Pb	0.14	0.01	mg/l	11/2/92
	Hg	*	0.001	mg/l	10/21/92
	Se	*	0.001	mg/l	10/26/92
	Ag	*	0.01	mg/l	10/26/92

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS	MQL		DATE ANALYZED
210-1857	TCLP Volatiles				
	Benzene	**0.003**	0.001	mg/l	11/6/92
	Carbon Tetrachloride	*	0.001	mg/l	11/6/92
	Chlorobenzene	*	0.001	mg/l	11/6/92
	Chloroform	**0.001**	0.001	mg/l	11/6/92
	1,4-Dichlorobenzene	*	0.001	mg/l	11/6/92
	1,2-Dichloroethane	*	0.001	mg/l	11/6/92
	1,1-Dichloroethene	*	0.001	mg/l	11/6/92
	Tetrachloroethene	*	0.001	mg/l	11/6/92
	Trichloroethene	*	0.001	mg/l	11/6/92
	Vinyl Chloride	*	0.001	mg/l	11/6/92
	MEK	*	0.001	mg/l	11/6/92
210-1857	TCLP SV				
	o-Cresol	*	0.005	mg/l	11/4/92
	m-Cresol	*	0.005	mg/l	11/4/92
	p-Cresol	*	0.005	mg/l	11/4/92
	2,4-Dinitrotoluene	*	0.005	mg/l	11/4/92
	Hexachlorobenzene	*	0.005	mg/l	11/4/92
	Hexachlorobutadiene	*	0.005	mg/l	11/4/92
	Hexachloroethane	*	0.005	mg/l	11/4/92
	Nitrobenzene	*	0.005	mg/l	11/4/92
	Pentachlorophenol	*	0.025	mg/l	11/4/92
	Pyridine	*	0.005	mg/l	11/4/92
	2,4,5-Trichlorophenol	*	0.025	mg/l	11/4/92
	2,4,6-Trichlorophenol	*	0.005	mg/l	11/4/92

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

PARAMETER		RESULTS	MQL	
210-1657	8240 Volatiles			
	Acetone	*	100	ug/l
	Acrolein	*	50	ug/l
	Acrylonitrile	*	50	ug/l
	Benzene	*	5	ug/l
	Bromodichloromethane	*	5	ug/l
	Bromoform	*	5	ug/l
	Bromomethane	*	10	ug/l
	Butanone, 2- (MEK)	*	10	ug/l
	Carbon Disulfide	*	5	ug/l
	Carbon Tetrachloride	*	5	ug/l
	Chlorobenzene	*	5	ug/l
	Chloroethane	*	10	ug/l
	2-Chloroethylvinyl Ether	*	10	ug/l
	Chloroform	*	5	ug/l
	Chloromethane	*	10	ug/l
	Dibromochloromethane	*	5	ug/l
	Dibromomethane	*	5	ug/l
	1,2-Dichlorobenzene	*	5	ug/l
	1,3-Dichlorobenzene	*	5	ug/l
	1,4-Dichlorobenzene	*	5	ug/l
	1,4-Dichloro-2-Butane	*	5	ug/l
	Dichlorodifluoromethane	*	10	ug/l
	1,1-Dichloroethane	*	5	ug/l
	1,2-Dichloroethane	*	5	ug/l

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS		MQL	
210-1857	8240 Volatiles				
	1,1-Dichloroethene	*		5	ug/l
	trans-1,2-Dichloroethene	*		5	ug/l
	1,2-Dichloropropane	*		5	ug/l
	cis-1,3-Dichloropropene	*		5	ug/l
	trans-1,3-dichloropropene	*		5	ug/l
	Ethanol	*		100	ug/l
	Ethylbenzene	*		5	ug/l
	Ethyl Methacrylate	*		10	ug/l
	2-Hexanone (MBK)	*		50	ug/l
	Iodomethane	*		10	ug/l
	Methylene Chloride	*		5	ug/l
	4-Methyl-2-Pentanone (MIBK)	*		50	ug/l
	Styrene	*		10	ug/l
	1,1,2,2-Tetrachloroethane	*		10	ug/l
	Tetrachloroethene	*		10	ug/l
	Toluene	*		5	ug/l
	1,1,1-Trichloroethane	*		5	ug/l
	1,1,2-Trichloroethane	*		5	ug/l
	Trichloroethene	*		5	ug/l
	Trichlorofluoromethane	*		5	ug/l
	Vinyl Chloride	*		10	ug/l
	Xylenes (Total)	*		5	ug/l

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

PARAMETER		RESULTS	MQL	
210-1857	8270 A/BN			
	2-Chlorophenol	*	160	ug/kg
	4-Chlorophenyl Phenyl Ether	*	160	ug/kg
	Chrysene	*	160	ug/kg
	Dibenz(a,j)Acridne	*	160	ug/kg
	Dibenz(a,h)Anthracene	*	160	ug/kg
	Dibenzofuran	*	160	ug/kg
	Di-n-Butyl Phthalate	*	160	ug/kg
	1,2-Dichlorobenzene	*	160	ug/kg
	1,3-Dichlorobenzene	*	160	ug/kg
	1,4-Dichlorobenzene	*	160	ug/kg
	3,3'-Dichlorobenzidine	*	330	ug/kg
	2,4-Dichlorophenol	*	160	ug/kg
	2,6-Dichlorophenol	*	160	ug/kg
	Diethylphthalate	*	160	ug/kg
	p-Dimethylaminoazobenzene	*	160	ug/kg
	7,12-Dimethylbenz(A)Anthracene	*	160	ug/kg
	a,a-Dimethylphenethylamine	*	160	ug/kg
	2,4-Dimethylphenol	*	160	ug/kg
	Dimethylphthalate	*	160	ug/kg
	4,6-Dinitro-2-Methylphenol	*	820	ug/kg
	2,4-Dinitrophenol	*	160	ug/kg
	2,4-Dinitrotoluene	*	160	ug/kg
	2,6-Dinitrotoluene	*	160	ug/kg
	Diphenylamine	*	160	ug/kg

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS	MQL	
210-1857	8270 A/BN			
	Acenaphthene	*	160	ug/kg
	Acenaphthylene	*	160	ug/kg
	Acetophenone	*	160	ug/kg
	Aniline	*	160	ug/kg
	Anthracene	*	160	ug/kg
	4-Aminobiphenyl	*	160	ug/kg
	Benzidine	*	160	ug/kg
	Benzoic Acid	*	820	ug/kg
	Benzo(a)Anthracene	*	160	ug/kg
	Benzo(b)Fluoranthene	*	160	ug/kg
	Benzo(k)Fluoranthene	*	160	ug/kg
	Benzo(gih)Perylene	*	160	ug/kg
	Benzo(a)Pyrene	*	160	ug/kg
	Benzyl Alcohol	*	160	ug/kg
	Bis(2-chloroethoxy) Methane	*	160	ug/kg
	Bis(2-chloroethyl) Ether	*	160	ug/kg
	Bis(2-chloroisopropyl) Ether	*	160	ug/kg
	Bis(2-Ethylhexyl) Phthalate	*	160	ug/kg
	4-Bromophenyl Phenyl Ether	*	160	ug/kg
	Butylbenzyl Phthalate	*	160	ug/kg
	4-Chloroaniline	*	160	ug/kg
	1-Chloronaphthalene	*	160	ug/kg
	2-Chloronaphthalene	*	160	ug/kg
	4-Chloro-3-Methylphenol	*	160	ug/kg

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275

PARAMETER		RESULTS		MQL	
210-1857	8270 A/BN				
	1,2-Diphenylhydrazine	*		160	ug/kg
	Di-n-Octyl Phthalate	*		160	ug/kg
	Ethyl Methane Sulfonate	*		160	ug/kg
	Fluoranthene	*		160	ug/kg
	Fluorene	*		160	ug/kg
	Hexachlorobenzene	*		160	ug/kg
	Hexachlorobutadiene	*		160	ug/kg
	Hexachlorocyclopentadiene	*		160	ug/kg
	Hexachloroethane	*		160	ug/kg
	Indeno(1,2,3-cd)Pyrene	*		160	ug/kg
	Isophorone	*		160	ug/kg
	3-Methylchloranthrene	*		160	ug/kg
	Methyl Methane Sulfonate	*		160	ug/kg
	2-Methylnaphthalene	*		160	ug/kg
	2-Methylphenol	*		160	ug/kg
	4-Methylphenol	*		160	ug/kg
	Naphthalene	*		160	ug/kg
	1-Naphthylamine	*		160	ug/kg
	2-Naphthylamine	*		160	ug/kg
	2-Nitroaniline	*		820	ug/kg
	3-Nitroaniline	*		820	ug/kg
	4-Nitroaniline	*		820	ug/kg
	Nitrobenzene	*		160	ug/kg
	2-Nitrophenol	*		160	ug/kg

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER		RESULTS	MQL	
210-1857	8270 A/BN			
	4-Nitrophenol	*	820	ug/kg
	N-Nitrosodi-N-Butylamine	*	160	ug/kg
	N-Nitrosodimethylamine	*	160	ug/kg
	N-Nitrosodiphenylamine	*	160	ug/kg
	N-Nitrosodipropylamine	*	160	ug/kg
	N-Nitrosopiperidine	*	160	ug/kg
	Pentachlorobenzene	*	160	ug/kg
	Pentachloronitrobenzene	*	160	ug/kg
	Pentachlorophenol	*	820	ug/kg
	Phenacetin	*	160	ug/kg
	Phenanthrene	*	160	ug/kg
	Phenol	*	160	ug/kg
	2-Picoline	*	160	ug/kg
	Pronamide	*	160	ug/kg
	Pyrene	*	160	ug/kg
	1,2,4,5-Tetrachlorobenzene	*	160	ug/kg
	2,3,4,6-Tetrachlorophenol	*	160	ug/kg
	2,4,6-Tribromophenol	*	160	ug/kg
	1,2,4-Trichlorobenzene	*	160	ug/kg
	2,4,5-Trichlorophenol	*	820	ug/kg
	2,4,6-Trichlorophenol	*	160	ug/kg

REPORTED BY: _____

D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

Blue Ridge Labs

P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 726-0149

CHAIN OF CUSTODY RECORD

210-1857

SAMPLE ID: DH#2-004
TYPE OF SAMPLE: Drit
LOCATION:
DATE SAMPLED: 10-20-92 TIME SAMPLED: 2:30
TESTS REQUESTED: TCLP - Sax Dig. Soluble
8240 & 8270
PRESERVATIVE: Ice
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

SAMPLE ID:
TYPE OF SAMPLE:
LOCATION:
DATE SAMPLED: TIME SAMPLED:
TESTS REQUESTED:

PRESERVATIVE:
SIGNATURE:

RELINQUISHED BY:

DATE: 10/21/92

RELINQUISHED TO:

NOTE: Use back for additional information and maps.

5/25/91

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings
211 E. Fleming Dr.
Morganton, N.C. 28655
Attention: Mr. S. Carter

DATE RECEIVED: January 25, 1993

DATE REPORTED: February 3, 1993

SAMPLE NUMBER	SAMPLE DESCRIPTION
301-0158A	Soil; DH #2 007 for 9071
301-0158B	Soil; DH #2 008 for 9071
301-0158C	Soil; DH #2 009 for TCLP Volatiles

PARAMETER	RESULTS	MQL		DATE STARTED
301-0158A - 9071	168	3.0	mg/kg	01/26/93
301-0158B - 9071	113	3.0	mg/kg	01/26/93
301-0158C - TCLP Volatiles (Analyzed 2/1/93)				
- Benzene	*	0.001	mg/l	
- Carbon Tetrachloride	*	0.001	mg/l	
- Chlorobenzene	*	0.001	mg/l	
- **Chloroform**	**0.024**	0.001	mg/l	
- 1,2-Dichlorobenzene	*	0.001	mg/l	
- 1,4-Dichlorobenzene	*	0.001	mg/l	
- 1,1-Dichloroethene	*	0.001	mg/l	
- Methy Ethyl Ketone (MEK)	*	0.001	mg/l	

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

PARAMETER	RESULTS	MQL
301-0158C - TCLP Volatiles (Analyzed 2/1//93)		
- Tetrachloroethene	*	0.001 mg/l
- Trichloroethene	*	0.001 mg/l
- Vinyl Chloride	*	0.001 mg/l

REPORTED BY: _____

D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

301-0158

CHAIN OF CUSTODY RECORD

SAMPLE ID : DH#2007
TYPE OF SAMPLE : Soil
LOCATION : Next to Chip loading MARION
DATE SAMPLED : 1-25 93 TIME SAMPLED : 11:50
TESTS REQUESTED : 9071
PRESERVATIVE: Ice
SIGNATURE: D. Walt Sparks

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

SAMPLE ID : DH #2 008
TYPE OF SAMPLE : Soil
LOCATION : Diesel Heritage
DATE SAMPLED : 1-25-93 TIME SAMPLED : 12:40
TESTS REQUESTED : 9071
PRESERVATIVE: Ice
SIGNATURE: D. Walt Sparks

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

SAMPLE ID : DH #2 009
TYPE OF SAMPLE : Soil
LOCATION : Stock Pile Diesel Heritage
DATE SAMPLED : TIME SAMPLED : 12:45
TESTS REQUESTED : TCLP
Scan for Volatiles
PRESERVATIVE: Ice
SIGNATURE: D. Walt Sparks

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

RELINQUISHED BY:	DATE	RELINQUISHED TO:
D. Walt P. Sparks	1-25-93	Wanda Johnson

NOTE. Use back for additional information and maps

3/25/91

SAMPLES "FROM" INITIAL EXCAVATION OF GAS TANK AT FRONT OF PLANT

Blue Ridge Labs
P.O. Box 2940 • Pine Mountain Road
Leaoir, North Carolina 28645
Telephone (704) 728-0149

CLIENT: Drexel Heritage Furnishings
211 E. Fleming Dr.
Morganton, N.C. 28655
Attention: Mr. S. Carter

DATE RECEIVED: February 3, 1993

DATE REPORTED: February 4, 1993

SAMPLE NUMBER	SAMPLE DESCRIPTION
302-0242A	Soil; DH2-009 for 5030
302-0242B	Soil; DH2-010 for 5030

PARAMETER	RESULTS	MDL		DATE STARTED
302-0242A - 5030	1313	1.0	mg/kg	02/03/93
302-0242B - 5030	1499	1.0	mg/kg	02/03/93

REPORTED BY: _____
D. R. Wessinger - General Manager

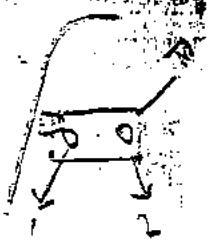
* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

302-0242

Bill Lawler DREXEL
CCR STAT

Tank Side
Tank 92" 43"



Blue Ridge Labs
P.O. Box 2968 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 728-0149

CHAIN OF CUSTODY RECORD

SAMPLE ID : DH2-009
TYPE OF SAMPLE : Dirt
LOCATION : Drum Platform #2
DATE SAMPLED : 2-2-93 TIME SAMPLED : 4:15
TESTS REQUESTED : GAS
PRESERVATIVE: ICE
SIGNATURE: [signature]

SAMPLE ID : DH2-010
TYPE OF SAMPLE : Dirt
LOCATION : Drum Platform #2
DATE SAMPLED : 2-2-93 TIME SAMPLED : 4:15
TESTS REQUESTED : GAS
PRESERVATIVE: ICE
SIGNATURE: [signature]

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

SAMPLE ID :
TYPE OF SAMPLE :
LOCATION :
DATE SAMPLED : TIME SAMPLED :
TESTS REQUESTED :
PRESERVATIVE:
SIGNATURE:

RELINQUISHED BY:	DATE	RELINQUISHED TO:
[signature]	2-3-93	[signature]

NOTE: Use back for additional information and maps.

3/25/91

MCCO
11091
DREXEL HERITAGE PLT. 2 MARION
DME 1/20/95

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

January 16, 1995

Ms. Diane Eskenasy
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Fourth Quarter 1994 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Ms. Eskanasy:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Fourth Quarter 1994 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on December 14, 1994. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1.

Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. As a result of gauging the site monitor wells, 0.06 feet of free product was detected in monitor well MW-8. Free product was not detected in any of the other site monitor wells. No odors or free product was observed in a storm drain located near MW-8. Free product gauging and inspection of the storm drain will be conducted during site visits by ERM-Southeast and quarterly sampling events.

The site corrective action plan was formally approved on January 4, 1995. Drexel Heritage is in the process of obtaining bids to design, construct, and install the proposed ground water remediation system.

Offices of
ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp10:drexel-1.qtr

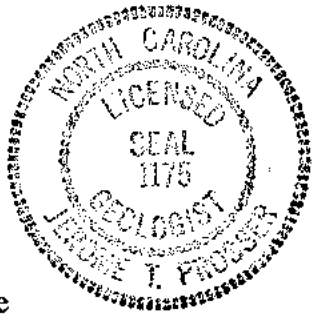
RECEIVED
JAN 20 1995
Groundwater Section
Asheville Regional Office

Please call myself or Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

ERM

Sincerely,

ERM-SOUTHEAST, INC.

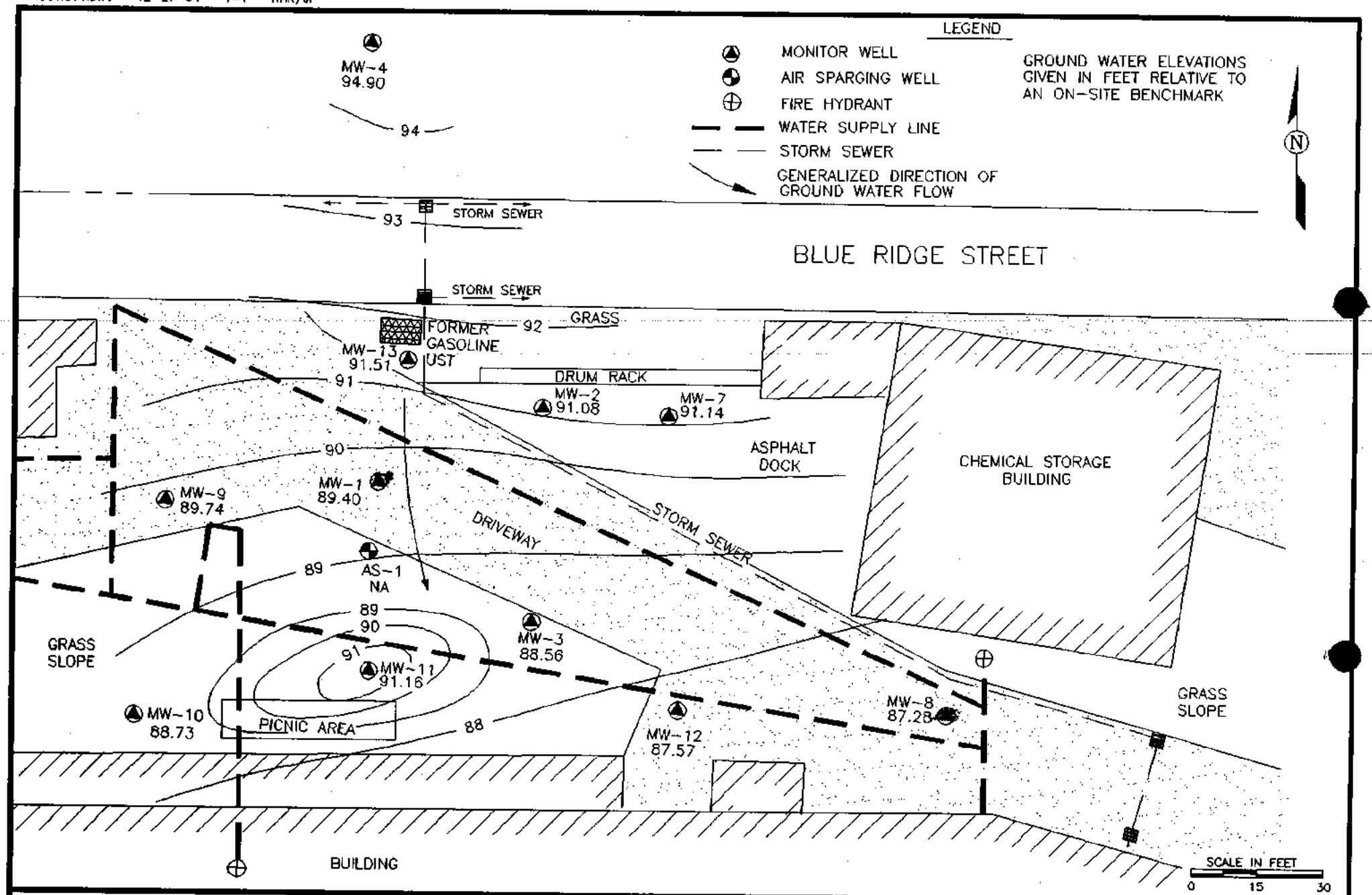


Jerry Prosser, P.G.
Project Manager

cc: S. Carter - Drexel Heritage
M. Lake - MASCO

jp10:drexel-1.qtr

4501IS01.DWG 12-27-94 1=1 RHR/JP



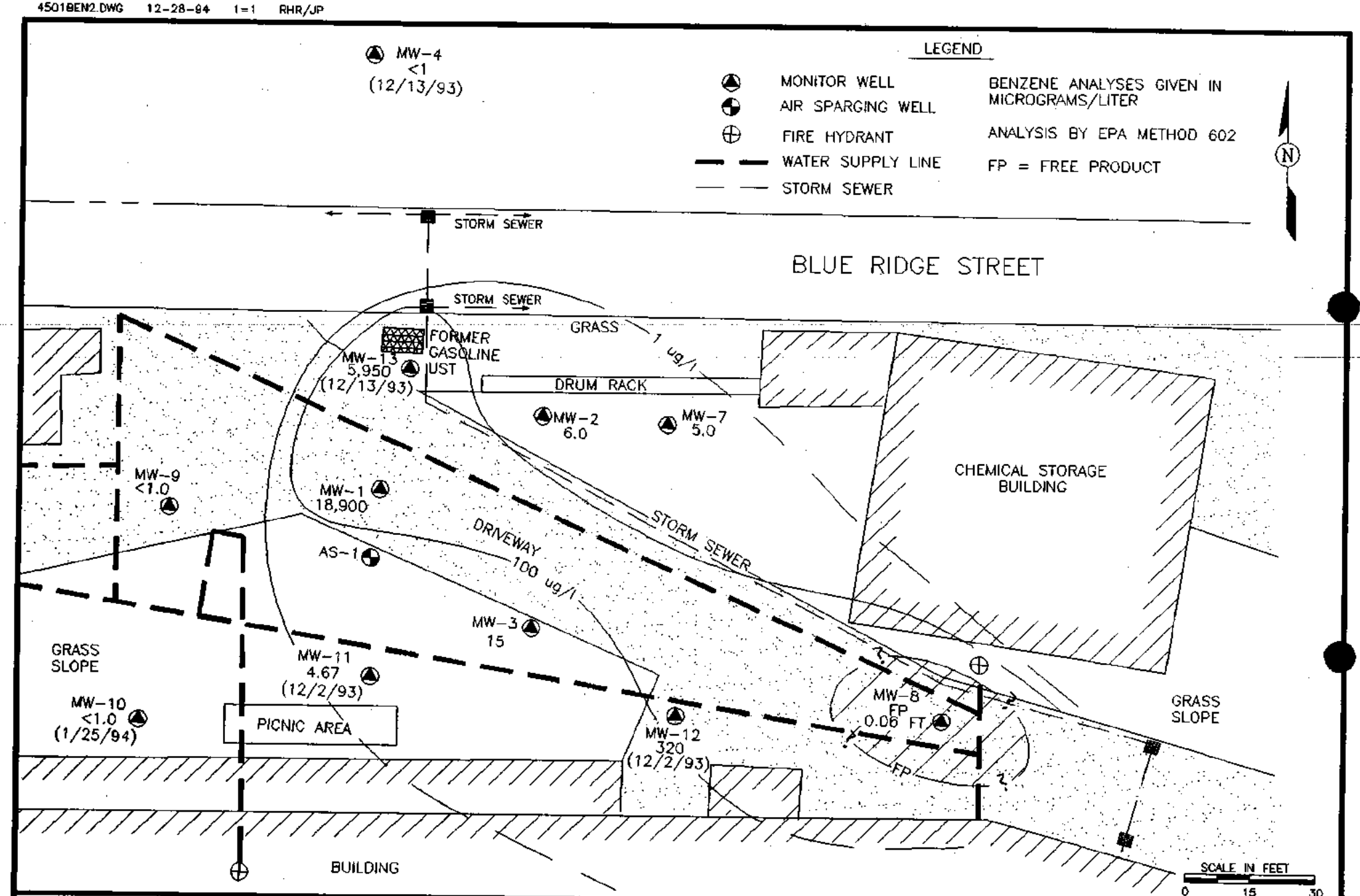
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-12/14/94

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

4501BEN2.DWG 12-28-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER BENZENE AND FREE PRODUCT ISOCONCENTRATION CONTOUR MAP – 12/14/94

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

TABLE 1
GASOLINE UST AREA
GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

Well ID Elevation (ft.)	Date	Depth to Water (ft.BTOC)	Ground Water Elevation (ft.)
MW-1	12/17/93	8.85	89.75
98.60	1/31/94	8.69	89.91
	12/14/94	9.20	89.40
MW-2	12/17/93	9.24	88.15
97.39	1/31/94	6.09	91.30
	12/14/94	6.31	91.08
MW-3	12/17/93	6.54	88.52
95.06	1/31/94	6.37	88.69
	12/14/94	6.50	88.56
MW-4	12/17/93	12.75	94.88
107.63	1/31/94	12.50	95.13
	12/14/94	12.73	94.90
MW-7	12/17/93	4.67	91.23
95.90	1/31/94	4.53	91.37
	12/14/94	4.76	91.14
MW-8	1/31/94	1.93	87.24
89.17	12/14/94	1.94 (1.88)	87.28*
MW-9	1/31/94	9.43	89.96
99.39	12/14/94	9.65	89.74
MW-10	1/31/94	2.37	89.55
91.92	12/14/94	3.19	88.73
MW-11	1/31/94	0.74	91.37
92.11	12/14/94	0.95	91.16
MW-12	1/31/94	2.39	88.01
90.40	12/14/94	2.83	87.57
MW-13	1/31/94	8.73	91.75
100.48	12/14/94	8.97	91.51

Notes:
BTOC = Below top of casing
(1.88) = Depth to product
* = Calculated ground water elevation factoring in free product thickness
Elevations are relative to an on-site benchmark with an assigned elevation of 100.00 feet.

TABLE 2
FORMER GASOLINE UST AREA
GROUND WATER BTEX + MTBE ANALYTICAL RESULTS
DREXEL HERITAGE FURNISHING PLANT #2
MARION, NORTH CAROLINA

WELL ID	DATE	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	TOTAL BTEX	MTBE
MW-1	3-29-93	25,800	31,400	2,900	15,200	75,300	28,400
	8-10-93	24,700	30,500	2,330	11,210	68,740	8,720
	12-14-94	18,900	22,300	2,180	11,500	54,880	1,130
MW-2	3-29-93	3	13	17	61	94	ND
	8-10-93	1,080	6,936	1,330	5,010	14,356	ND
	12-14-94	6	207	994	5,590	6,797	ND
MW-3	3-29-93	17	1,060	1,460	1,290	3,827	ND
	8-10-93	ND	2,590	3,180	8,320	14,090	ND
	12-14-94	15	42	13	45	115	ND
MW-4	12-13-93	ND	ND	ND	ND	ND	ND
MW-7	12-13-93	ND	ND	ND	ND	ND	ND
	12-14-94	5	2	6	70	83	ND
[illegible]	1-25-94	10	98	51	267	426	ND
MW-9	1-25-94	ND	ND	ND	ND	ND	ND
	12-14-94	ND	ND	ND	ND	ND	ND
MW-10	1-25-94	ND	ND	ND	ND	ND	ND
MW-11	12-2-93	4.67	6.39	50.9	190	252	ND
MW-12	12-2-93	320	980	1,090	2,340	4,730	ND
MW-13	12-2-93	5,950	10,100	2,580	4,365	22,995	ND

NOTES: BTEX = Benzene + Toluene = Ethylbenzene + Xylenes
Analytical results given in micrograms per liter
MTBE = methyl tert butyl ether
Analysis by EPA Method 602.

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A057812

Sample ID: MW-9

Date Collected: 12/14/94

Project: 4501

Time Collected: 12:20

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 307

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	< 1.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	< 10.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	100.	50 - 150

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300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 4207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A067813

Sample ID: MW-3

Date Collected: 12/14/94

Project: 4501

Time Collected: 12:40

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	15.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	42.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	13.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	45.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	< 10.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	96.	50 - 150

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300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A57814

Sample ID: MW-2

Date Collected: 12/14/94

Project: 4501

Time Collected: 13:20

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	6.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	207.	ug/l	22.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	994.	ug/l	22.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	5590	ug/l	22.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	25.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	99.	50 - 150

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300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6807
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A067815

Sample ID: MW-7

Date Collected: 12/14/94

Project: 4501

Time Collected: 13:40

Project Name: DEXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	5.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Toluene	2.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	6.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	70.0	ug/l	1.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	< 10.0	ug/l	10.0	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
PTEX/GRO Surrogate	101.	50 - 150

Laboratory Supervisor

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300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 94-A067816

Sample ID: MW-1

Date Collected: 12/14/94

Project: 4501

Time Collected: 14:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/94

Sampler: JERRY PROSSER

Time Received: 9:00

State Certification: 387

Sample Type: Water

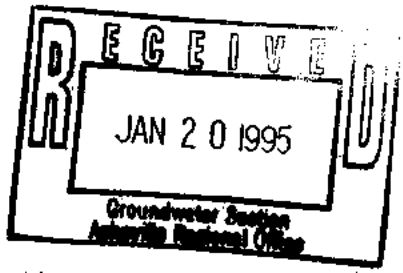
Site I.D.:

Analyte	Result	Units	PQL	Date	Time	Analyst	Method
Benzene	18900	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Toluene	22300	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Ethylbenzene	2180	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Xylenes, total	11500	ug/l	90.0	12/22/94	17:05	K.WALKUP	602
Methyl-t-butylether	1130	ug/l	900.	12/22/94	17:05	K.WALKUP	602

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRO Surrogate	106.	50 - 150

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300 12th Avenue South
Nashville, Tennessee 37203

PROJECT QUALITY CONTROL DATA

ERM - SOUTHEAST, INC. 6207

Report Number: 94-A067817

Sample I.D.:

Lab Project: 18894

Project: 4501

Date Received: 12/15/94

****

** UST Spike/Duplicate Results **

Compound	%Recovery	Target Range	Precision RPD	Target Range
Benzene	105.	70 - 130	2.9	0 - 20
Toluene	101.	70 - 130	3.0	0 - 20
Ethyl benzene	103.	70 - 130	6.0	0 - 20
Xylene	102.	70 - 130	1.0	0 - 20

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300 12th Ave., South
Nashville, TN 37203
615-726-0177
FAX 615-726-3404

REFERRING CLIENT

ERM-Southeast, Inc. 4013
Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
704 541-8345 FAX 541-8416

BILLING CONTROL NUMBER (FOR LAB USE ONLY) 18234

PROJECT # Drexel 4501

P.O. # 4501

SAMPLERS (Signature-Please Print) Jerry Prosser - Jerry Prosser

PROJECT NAME Drexel Heritage Plant #2

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	FORM	ANALYSIS REQUESTED
67812	MW-9	12/14	12:20			2	BTEX + MTBE by EPA 602
67813	MW-3	12/14	12:40			2	
67814	MW-2	12/14	13:20			2	
67815	MW-7	12/14	13:40			2	
67816	MW-1	12/14	14:00			2	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jerry Prosser	12/14 17:00	Fed. Express
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Received for Laboratory by: Keven Bradwell Date/Time 12/15/94 0900

Remarks

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For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

ARH 7917

MCCO
11090 Drexel Heritage #2
Willwear Hosiery Mfg. Co.
MES

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

July 13, 1995

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

Re: Second Quarter 1995 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Second Quarter 1995 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on July 11, 1995. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Free product was not detected on the water table at the site during the July 11, 1995 sampling event.

The site Corrective Action Plan, which proposed soil vapor extraction/air sparging (SVE/AS) ground water remediation, was formally approved on January 4, 1995. All of the mechanical and subsurface components of the SVE/AS system were installed in May and June, 1995. Start-up of the system is pending the hook-up of electrical power to the system by Duke Power Company. ERM-Southeast anticipates start-up of the system by late July 1995.

Recent observations of free product seepage from the base of the retaining wall located adjacent to the south wall of the Drexel Heritage chemical storage building, and the periodic presence of free product in monitor well MW-8, prompted Drexel Heritage to meet with DEM, ERM-Southeast, Willwear Hosiery Company, and Willwear's consultant Alpha Environmental Sciences, Inc. on-site on May 31, 1995. The observed free product seepage appears to be related to the release of approximately 2,000 gallons of #2 fuel oil from the Willwear property in January 1994, and possibly from earlier undocumented releases at the Willwear site.

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jp13:drex2-2.qtr

Offices of ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

As a result of the May 31 on-site meeting, Willwear accepted responsibility for the observed free product seepage and agreed to monitor potential vapor hazards that may be caused by free product seepage on the Drexel Heritage site. Drexel Heritage maintenance personnel will monitor and mitigate runoff of the free product seepage.

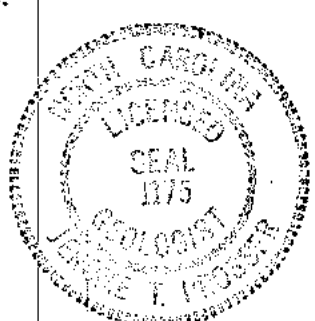
ERM

In accordance with the site CAP, Drexel Heritage plans to submit the Third Quarter 1995 quarterly report to DEM by October 31, 1995. The report will document ground water monitoring and and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

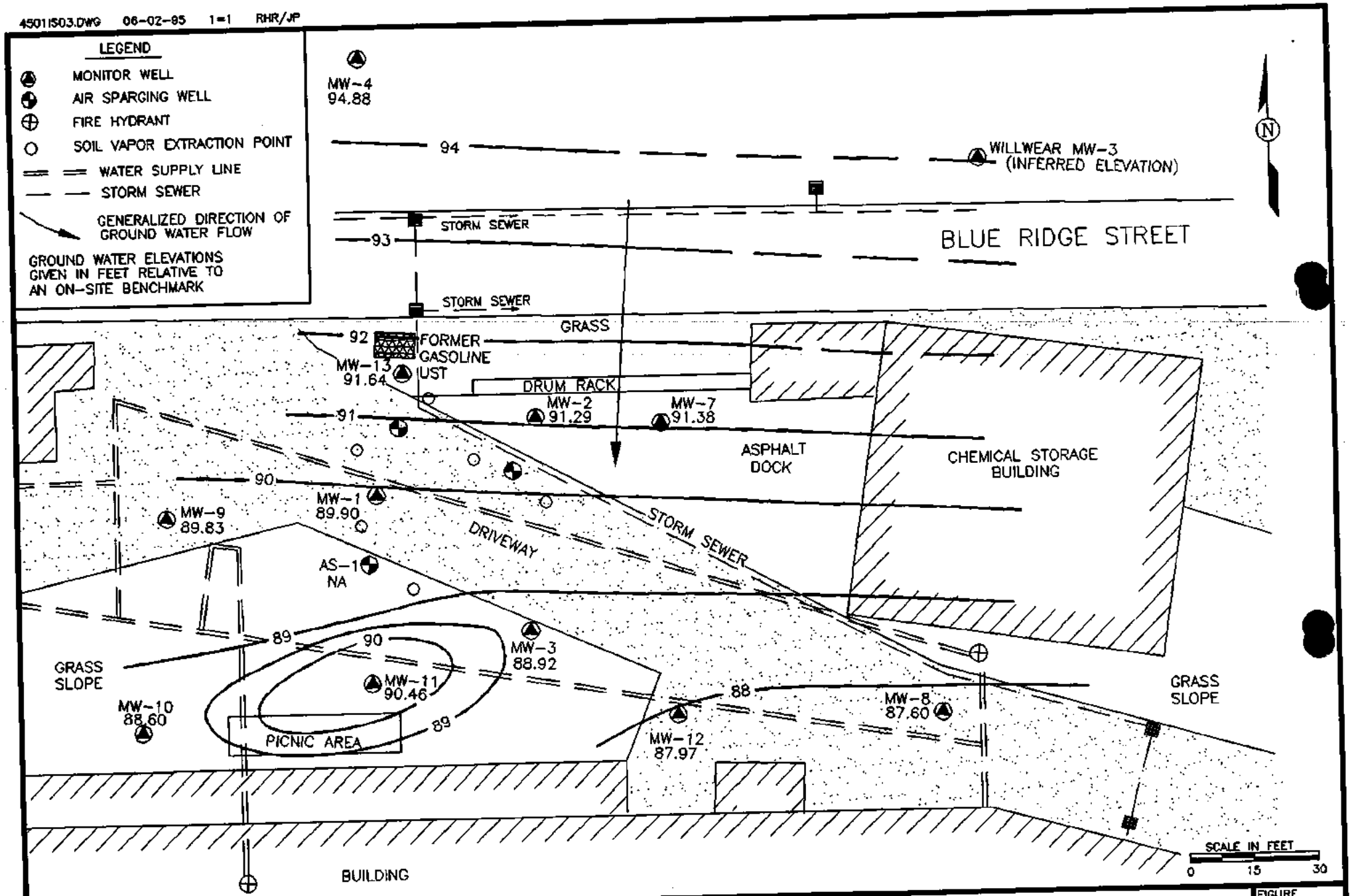
Sincerely,
ERM-SOUTHEAST, INC.

Jerry Prosser, P.G.
Project Manager



cc: S. Carter - Drexel Heritage
M. Lake - MASCO

jp13:drex2-2.qtr



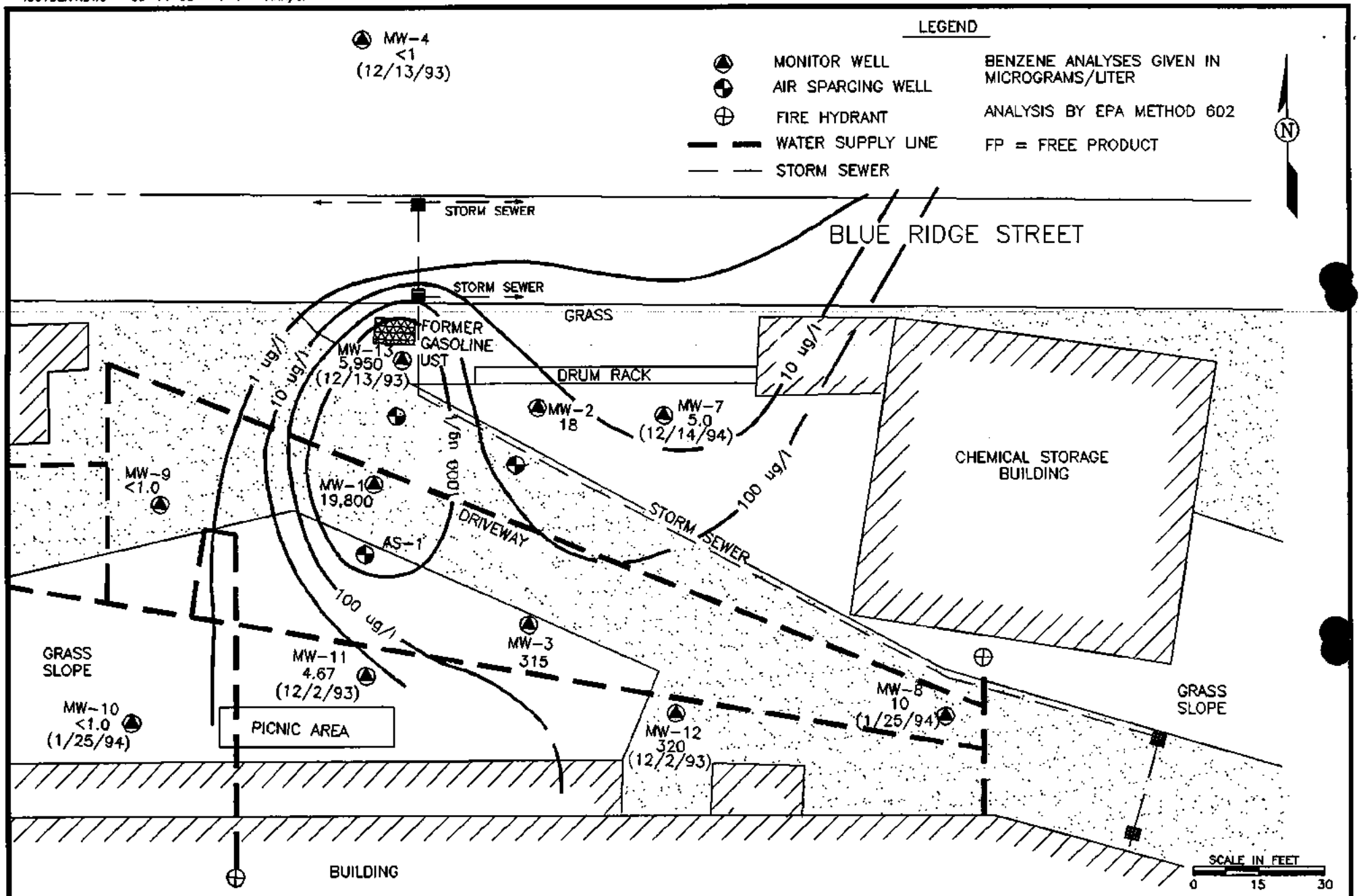
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-5/31/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

45019EN4.DWG 06-14-95 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER BENZENE ISOCONCENTRATION CONTOUR MAP - 5/31/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

DATE	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88

DATE	MW-7 95.90		MW-8 89.17				MW-9 99.39	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83

DATE	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	530	200	NS

Analytical results given in micrograms per liter.
"–" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

CSM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A030695

Sample ID: MW-1

Date Collected: 5/31/95

Project: 4501-3

Time Collected: 15:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PROSSER

Time Received: 9:20

State Certification: 397

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	19800	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Toluene	21600	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Ethylbenzene	900.	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Xylenes, total	6750	ug/l	1.0	450	6/13/95	11:29	P.Williams	602
Methyl-t-butylether	4500	ug/l	10.0	450	6/13/95	11:29	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	%	50 - 150

Laboratory Supervisor

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PRUSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A030596

Sample ID: MW-2

Date Collected: 5/31/95

Project: 4501-5

Time Collected: 15:10

Project Name: CARGILL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PRUSSER

Time Received: 9:20

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	18.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Toluene	44.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Ethylbenzene	220.	ug/l	1.0	10	6/ 7/95	13:02	P.Williams	602
Xylenes, total	590.	ug/l	1.0	10	6/ 7/95	13:02	P.Williams	602
Methyl-t-butylether	47.0	ug/l	10.0	1	6/ 7/95	13:02	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	105.	50 - 150

Laboratory Supervisor

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SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

SRM - SOUTHEAST, INC. 6307
ATT. JERRY PROSSER
7000 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-AC30577

Sample ID: MW-3

Date Collected: 5/31/95

Project: 4301-S

Time Collected: 15:20

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PROSSER

Time Received: 9:20

State Certification: 987

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	315.	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Toluene	3460	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Ethylbenzene	720.	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Xylenes, total	3640	ug/l	1.0	45	6/ 7/95	13:02	P.Williams	602
Methyl-t-butylether	81.0	ug/l	10.0	1	6/ 7/95	13:02	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	104.	50 - 150

Laboratory Supervisor

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SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A030593

Sample ID: MW-9

Date Collected: 5/31/95

Project: 4301-5

Time Collected: 15:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 6/ 2/95

Sampler: JERRY PROSSER

Time Received: 9:20

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Toluene	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Ethylbenzene	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Xylenes, total	< 1.0	ug/l	1.0	1	6/ 7/95	13:02	P.Williams	602
Methyl-t-butylether	< 10.0	ug/l	10.0	1	6/ 7/95	13:02	P.Williams	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	97.	50 - 150

Laboratory Supervisor

COPY 3

SPECIALIZED ANALYTICS
ENVIRONMENTAL



2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

ERM-Southeast, Inc
Jerry Prosser
Suite 200
7300 Carmel Exec. Park
Charlotte, NC ~~28205~~ 28226

BILLING CONTROL NUMBER (FOR LAB USE ONLY) 26382

PROJECT # 4501-5

P.O. # 4501-5

SAMPLERS (Signature-Please Print) Jerry Prosser

PROJECT NAME Drexel Heritage Plant #2

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
[illegible]	MW-1	5/31	15:00		X	2	BTEX + MTBE by EPA 602
[illegible]	MW-2	5/31	15:10		X	2	↓
[illegible]	MW-3	5/31	15:20		X	2	↓
[illegible]	MW-9	5/31	15:30		X	2	↓

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jerry Prosser	~~5/31~~ 6/1 18:00	Federal Express
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Received for Laboratory by: [illegible] Date / Time 6/2/95 0920

Remarks

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

MCCO
11091
DREXEL HERITAGE PLT 2 -
MES 10/24/95 MARION

RECEIVED
OCT 24 1995
Groundwater Section
Asheville Regional Office

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

October 23, 1995

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Third Quarter 1995 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Third Quarter 1995 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on September 6, 1995. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Free product was not detected on the water table at the site during the September 6, 1995 sampling event.

The site soil vapor extraction/air sparging (SVE/AS) ground water remediation system installation was completed in July 1995 and system start-up took place on July 25, 1995. The system has operated continuously since start-up. Air emission analytical data collected on September 6, 1995 indicate that gasoline range organics (GRO) are being removed from the surficial aquifer at a rate of approximately three pounds/day (1,125 pounds/year). The SVE/AS system performance is summarized in Table 3.

Ground water quality appears to have improved significantly at MW-2 and MW-3 relative to ground water analyses conducted prior to start-up of the SVE/AS system. Ground water analyses from monitor well MW-1 indicate marginal improvement in ground water quality.

Offices of
ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp14:drex2-3.qtr

In accordance with the site CAP, Drexel Heritage plans to submit the Fourth Quarter 1995 quarterly report to DEM by January 31, 1996. The report will document ground water monitoring and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

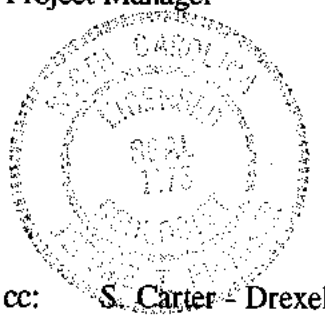
Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

ERM

Sincerely,

ERM-SOUTHEAST, INC.

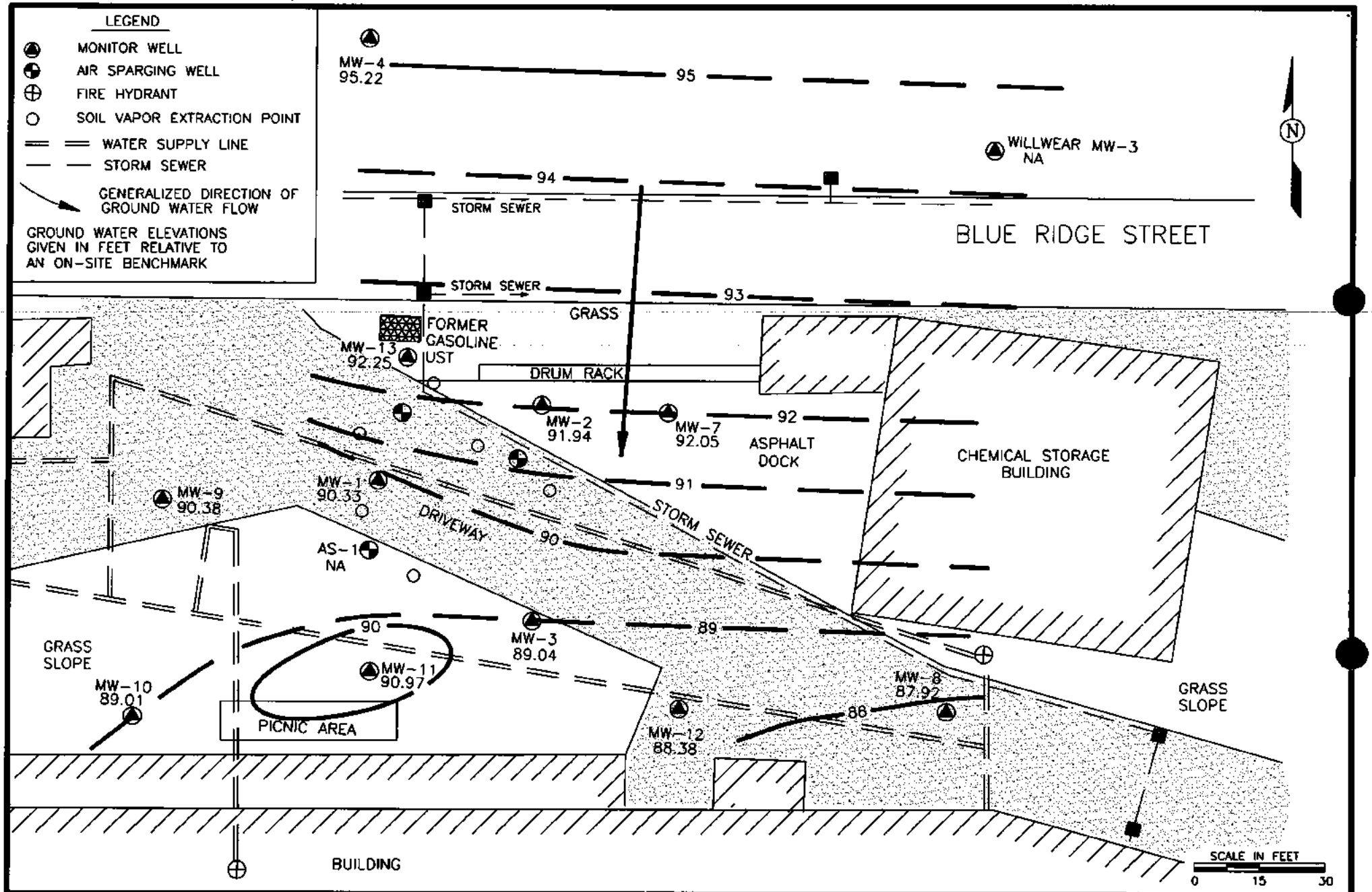
Jerry Prosser, P.G.
Project Manager



cc: S. Carter - Drexel Heritage
M. Glantz - MASCO

jp14:drex2-3.qtr

4501IS04.DWG 09-12-95 1=1 RHR/JP



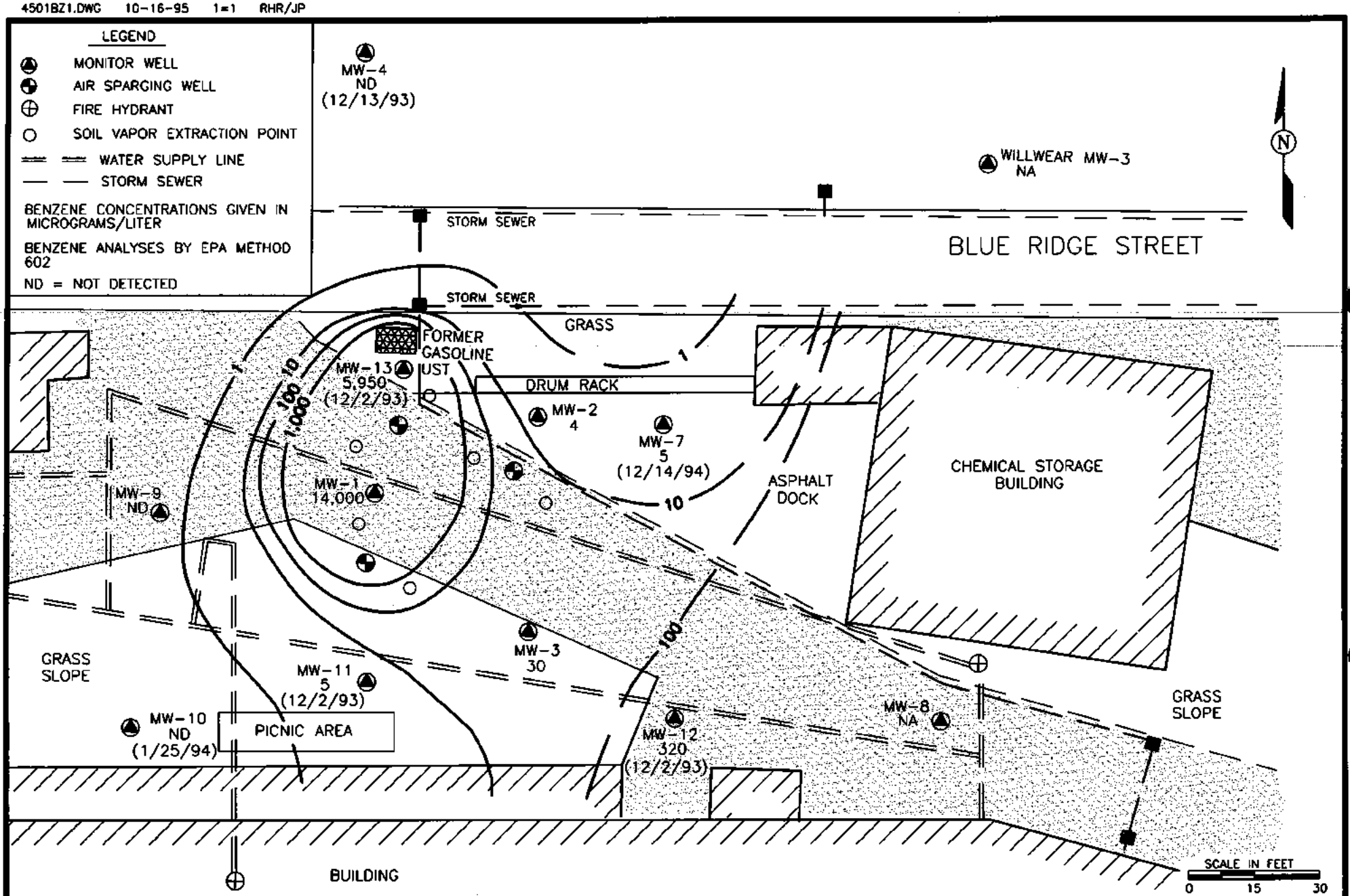
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-9/6/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

4501BZ1.DWG 10-16-95 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-9/6/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

DATE	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22

DATE	MW-7 95.90		MW-8 89.17				MW-9 99.39	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38

DATE	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	530	200	NS

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 200
CHARLOTTE, NC 28226

Lab Number: 95-A051280

Sample ID: MW-1

Date Collected: 9/ 6/95

Project: 4501

Time Collected: 13:30

Project Name: DREXEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY HAGAN

Time Received: 9:15

State Certification: 327

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Detection Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	14000	ug/l	1.0	180	9/ 9/95	8:39	J. James	602
Toluene	18900	ug/l	1.0	180	9/ 9/95	8:39	J. James	602
Ethylbenzene	1620	ug/l	1.0	90	9/ 9/95	8:39	J. James	602
Xylenes, total	9900	ug/l	1.0	90	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	2340	ug/l	10.0	90	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	101.	50 - 150

T. J. Maultsby
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

EPM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 200
CHARLOTTE, NC 28226

Lab Number: 95-A0512a1

Sample ID: MW-2

Date Collected: 9/ 6/95

Project: 4501

Time Collected: 14:00

Project Name: DANIEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY MAGAN

Time Received: 9:15

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	4.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Toluene	3.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Ethylbenzene	3.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Xylenes, total	88.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	< 10.0	ug/l	10.0	1	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BFEX/SRO Surrogate	107.	50 - 150

T. J. Dunlap
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

EPM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 300
CHARLOTTE, NC 28226

Lab Number: 95-A051282

Sample ID: MW-8

Date Collected: 9/ 6/95

Project: 4501

Time Collected: 14:30

Project Name: DREXEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY HAGAN

Time Received: 9:15

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	30.0	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Toluene	160.	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Ethylbenzene	140.	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Xylenes, total	405.	ug/l	1.0	5	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	18.0	ug/l	10.0	1	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	108.	50 - 150

T. J. Dudley
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM-SOUTHEAST INC. 5919
ATTN: JERRY PROSSER
7300 CARMEL EXEC. PARK STE 200
CHARLOTTE, NC 28226

Lab Number: 95-A051283

Sample ID: MW-9

Date Collected: 9/ 6/95

Project: 4301

Time Collected: 15:00

Project Name: DREXEL HERITAGE, MARION

Date Received: 9/ 7/95

Sampler: KIMBERLY HAGAN

Time Received: 9:15

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Toluene	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Ethylbenzene	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Xylenes, total	< 1.0	ug/l	1.0	1	9/ 9/95	8:39	J. James	602
Methyl-t-butylether	< 10.0	ug/l	10.0	1	9/ 9/95	8:39	J. James	602

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	102.	50 - 150

T. J. Burke
Laboratory Supervisor

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Ave., South
Nashville, TN 37203
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

BILLING CONTROL NUMBER (FOR LAB USE ONLY)	PROJECT #	P.O. #

SAMPLERS (Signature-Please Print)	PROJECT NAME

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ESM - SOUTHEAST, INC. 5807
ATT: JERRY PROSSER
7200 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-0052590

Sample ID: SVE/AS-1

Date Collected: 9/13/95

Project: 4501

Time Collected: 16:40

Project Name: DEXSIL HERITAGE PLANT #2 MARION, NCDate Received: 9/14/95

Sampler: JAY LANEY

Time Received: 9:30

AIHA Certificate #: 517

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	4.97	mg/m3	9/15/95	17:09	G.Norton	EPA-18
Benzene	84.8	mg/m3	9/15/95	17:09	G.Norton	EPA-18
Xylene	6.64	mg/m3	9/15/95	17:09	G.Norton	EPA-18
Ethyl benzene	1.06	mg/m3	9/15/95	17:09	G.Norton	EPA-18
GRO	209.	mg/m3	9/15/95	17:09	G.Norton	EPA-18

Report Approved by: Michael A. Dunn

COPY 3

SPECIALIZED ASSAYS ENVIRONMENTAL

300 12th Ave., South
Nashville, TN 37203
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

Account: 6207
B&M - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8345 Fax: 704-541-8416

BILLING CONTROL NUMBER (FOR LAB USE ONLY) 31730

PROJECT # 4501 —

P.O. #

SAMPLERS (Signature-Please Print) JAY LANZY

PROJECT NAME Drexel Heritage Plant #2 -MARION INC.

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
95-A052590	SVE/AS-1	9-13-95	16:40		X	2	BTEX TPH

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	9-13-95 16:51		Vivian Birdwell	9/14/95 0930
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

EPN - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CAPITOL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A042655

Sample ID: SVE/AS-1

Date Collected: 7/25/95

Project: 4501

Time Collected:

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 7/26/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

AIHA Certificate #: 517

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	2.45	mg/m3	6/26/95	15:42	G.Norton	Method 18
Benzene	3.66	mg/m3	6/26/95	15:42	G.Norton	Method 18
Xylene	7.33	mg/m3	6/26/95	15:42	G.Norton	Method 18
Ethyl benzene	1.84	mg/m3	6/26/95	15:42	G.Norton	Method 18
GRO	222.	mg/m3	6/26/95	15:42	G.Norton	Method 18

Report Approved by: Michael A. Dreese

COPY 3

SPECIALIZED ASSAYS
ENVIRONMENTAL

300 12th Avenue South
Nashville, Tennessee 37203

ANALYTICAL REPORT

EMM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A042656

Sample ID: SVE/AS-2

Date Collected: 7/25/95

Project: 4301

Time Collected:

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 7/26/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

AIHA Certificate #: 517

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	< 0.500	mg/m3	6/26/95	15:42	G.Norton	Method 18
Benzene	2.24	mg/m3	6/26/95	15:42	G.Norton	Method 18
Xylene	3.19	mg/m3	6/26/95	15:42	G.Norton	Method 18
Ethyl benzene	< 0.500	mg/m3	6/26/95	15:42	G.Norton	Method 18
GRX	11.5	mg/m3	6/26/95	15:42	G.Norton	Method 18

Report Approved by: Michael A. Dunn

COPY 3

ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

ERM-Southeast, Inc
Suite 200
7300 Carmel Executive Pk
Charlotte NC 28226
Attn: Terry Prosser

G CONTROL NUMBER (FOR LAB USE ONLY) 29143

PROJECT # 4501

P.O. #

ERS (Signature-Please Print) - Andy Nunnally

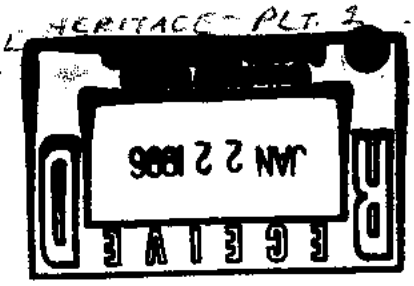
PROJECT NAME Drexel Heritage Plant #2

LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
-A042655	SVE/AS-1	7/25/95			X	1	TPH BTGX
-A042656	SVE/AS-2	7/25/95			X	1	TPH BTGX

ished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	7/25/95 1800		Adam W. Hall	7/26/95 0900
ished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
ished by: (Signature)	Date / Time	Received by: (Signature)		
ished by: (Signature)	Date / Time	Received by: (Signature)		

or further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

BKCo
11091
DREXEL HERITAGE - PLT 3
MES



ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

January 19, 1996

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Fourth Quarter 1995 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Fourth Quarter 1995 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on December 14, 1995. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Free product was not detected on the water table at the site during the December 14, 1995 sampling event.

The site soil vapor extraction/air sparging (SVE/AS) ground water remediation system was in continuous operation from July 25, 1995 through November 25, 1995. A water main ruptured beneath the SVE/AS system on November 25 and caused extensive damage to the system and the concrete driveway. Repairs have been made to the system, but the system cannot be re-started until the concrete pavement has been replaced. The SVE/AS system is expected to be re-started in mid-January 1996. Air emission analytical data collected on November 21, 1995 indicate that gasoline range organics (GRO) are being removed from the surficial aquifer at a rate of approximately 0.75 pounds/day (275 pounds/year). The SVE/AS system performance is summarized in Table 3.

In accordance with the site CAP, Drexel Heritage plans to submit the First Quarter 1996 quarterly report to DEM by April 30, 1996. The report will document ground water monitoring and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

Offices of
ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp14:drex2-3.qtr

Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

Sincerely,

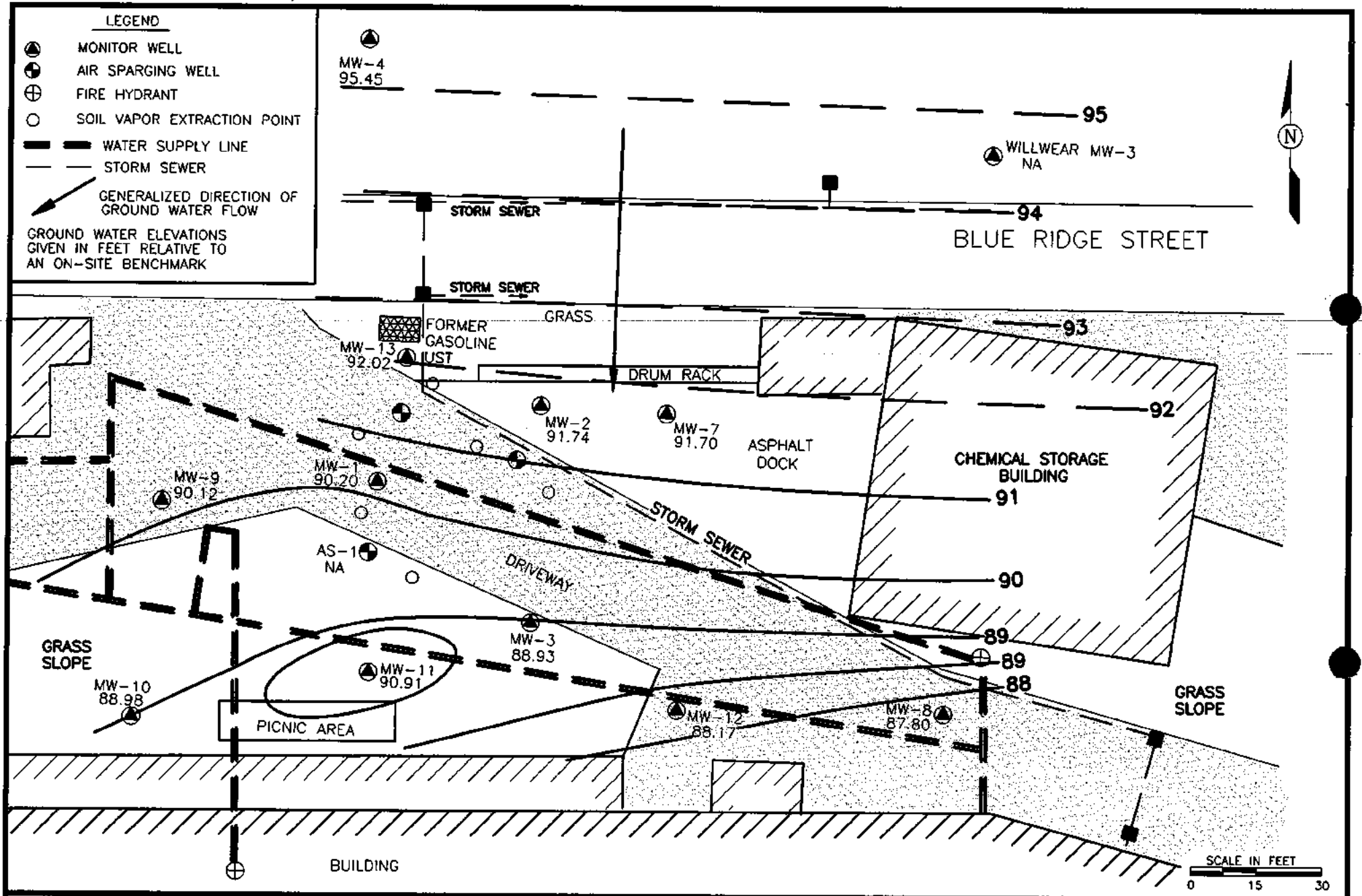
ERM-SOUTHEAST, INC.

Jerry Prosser, P.G.
Project Manager

cc: S. Carter - Drexel Heritage
M. Glantz - MASCO

jp14:drex2-3.qtr

4501ISO4.DWG 09-12-95 1=1 RHR/JP



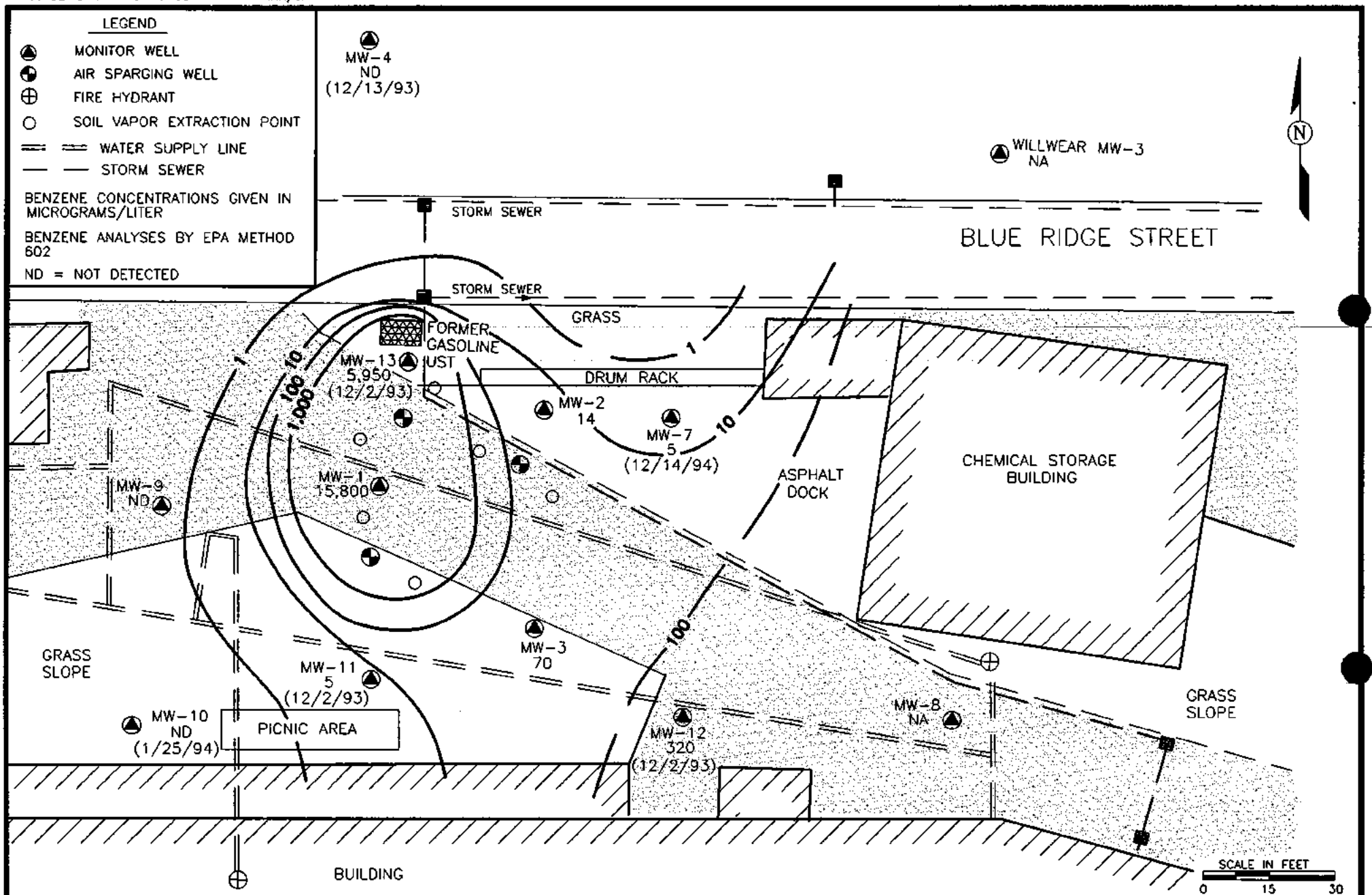
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-12/14/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 1

4501BZ1.DWG 10-16-95 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-12/14/95

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22
12/14/95	8.40	90.20	5.65	91.74	6.13	88.93	12.18	95.45

	MW-7 95.90		MW-8 89.17				MW-9 99.39	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38
12/14/95	4.20	91.70	1.37	--	--	87.80	9.27	90.12

	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25
12/14/95	2.94	88.98	1.20	90.91	2.23	88.17	8.46	92.02

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	530	200	NS

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	29	530	200

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

RECEIVED
BY:

ERM -- SOUTHEAST, INC. 6807
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072868

Sample ID: MW-9

Date Collected: 12/14/95

Project: 4501

Time Collected: 11:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Toluene	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Ethylbenzene	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Xylenes, total	ND	ug/l	1.0	1.0	1.0	12/20/95	12:45	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	12/20/95	12:45	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRC Surrogate	87.	50 - 150

Report Approved By: _____ Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072864

Sample ID: MW-1

Date Collected: 12/14/95

Project: 4501

Time Collected: 12:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	15800	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Toluene	22300	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Ethylbenzene	1800	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Xylenes, total	9670	ug/l	225.	1.0	225.	12/20/95	12:45	Wasilewski	602
Methyl-t-butylether	5760	ug/l	450.	10.0	45.0	12/20/95	12:45	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRO Surrogate	95.	50 - 150

Report Approved By: _____ Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072865

Sample ID: MW-2

Date Collected: 12/14/95

Project: 4501

Time Collected: 13:00

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	14.0	ug/l	1.0	1.0	1.0	12/19/95	16:39	Wasilewski	602
Toluene	82.0	ug/l	1.0	1.0	1.0	12/19/95	16:39	Wasilewski	602
Ethylbenzene	190.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Xylenes, total	2250	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Methyl-t-butylether	46.0	ug/l	10.0	10.0	1.0	12/19/95	16:39	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRD Surrogate	104.	50 - 150

Report Approved By: _____ Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny R. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A072866

Sample ID: MW-3

Date Collected: 12/14/95

Project: 4501

Time Collected: 12:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 12/15/95

Sampler: ANDY NUNNALLY

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	70.0	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Toluene	670.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Ethylbenzene	200.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Xylenes, total	570.	ug/l	10.0	1.0	10.0	12/19/95	16:39	Wasilewski	602
Methyl-t-butylether	ND	ug/l	100.	10.0	10.0	12/19/95	16:39	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BRO Surrogate	99.	50 - 150

Report Approved By: Danny Hale Report Date: 12/21/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny K. Hale, M.S.

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SPECIALIZED ASSAYS
ENVIRONMENTAL



2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

REFERRING CLIENT

Jerry Prosser
ERM-Southeast
Suite 200, 7300 Carmel Ex. Park
Charlotte NC 28226
704-541-8345

ING CONTROL NUMBER (FOR LAB USE ONLY) 360600

PROJECT # 4501

P.O. #

IPLERS (Signature-Please Print) - Andy Nunnally

PROJECT NAME Drexel Heritage Plant #2

OR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
72863	MW-9	12/14/95	1130			2	BTEX + MTBE
72864	MW-1	12/14/95	1200			2	BTEX + MTBE
72865	MW-2	12/14/95	1300			2	BTEX + MTBE
72866	MW-3	12/14/95	1230			2	BTEX + MTBE

nquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	12/14/95 1600		Kevin Burdwell	12/15/95 0900
nquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
			North Carolina samples	
nquished by: (Signature)	Date / Time	Received by: (Signature)		
nquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite sid

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A067858

Sample ID: 1-INFLUENT AIR

Date Collected: 11/21/95

Project:

Time Collected: 15:30

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 11/22/95

Sampler: JAY LANZY

Time Received: 9:30

AIHA Certificate #: 517

Sample Type: AIR BAG

Analyte	Result	Units	Date	Time	Analyst	Method
GRO	75.6	mg/m3	11/22/95	16:03	G.Norton	EPA-18

Report Approved by: Theodore J. Duello Report Date: 11/28/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207
ATT. JERRY PROSSER
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 95-A067859

Sample ID: 2-EFFLUENT AIR

Date Collected: 11/21/95

Project:

Time Collected: 15:35

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 11/22/95

Sampler: JAY LANZY

Time Received: 9:30

AIHA Certificate #: 517

Sample Type: AIR BAG

Analyte	Result	Units	Date	Time	Analyst	Method
GRO	156.	mg/m3	11/22/95	16:03	G.Norton	EPA-18

Report Approved by: Theodore J. Duello Report Date: 11/28/95

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 1

SPECIALIZED ASSAYS
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

Specialized Assays: (800) 765-0980

REFERRING CLIENT

Account: 6207
ERM - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8416 Fax: - -

BILLING CONTROL NUMBER (FOR LAB USE ONLY): 35358

PROJECT #:

P.O. #:

SAMPLERS (Signature-Please Print): JAY C LOVEY

PROJECT NAME: Drexel Heritage plant #2

FOR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
67858	1. Effluent Air	11-21	1510		X	1	Gasoline Range Organics
67859	2. Effluent Air	11-21	1535		X	1	Gasoline Range Organics

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
[signature]	11/22/95 1622		[signature]	11/22/95 0930
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
			Will call for Air with GC/FID	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

MCCO
11091
DREXEL HERITA PLT. 2
MES 4/15/96

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

April 10, 1996

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: First Quarter 1996 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the First Quarter 1996 Quarterly Report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on March 1, 1996. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Laboratory data sheets can be referenced in Attachment A. Free product was not detected on the water table at the site during the March 1, 1996 sampling event.

The site SVE/AS remediation system re-started on immediately following repair of the ruptured water main and infrastructure at the site. The SVE/AS ground water remediation system was not operational from November 25, 1995 through February 12, 1996 due to the damage associated with the ruptured water main. The operational performance of the SVE/AS system is summarized in Table 3.

In accordance with the site CAP, Drexel Heritage plans to submit the Second Quarter 1996 quarterly report to DEM by July 31, 1996. The report will document ground water monitoring and and sampling results, and include an evaluation of the performance of the SVE/AS ground water remediation system.

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APR 15 1996
Groundwater Section
Asheville Regional Office

Offices of ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

jp15:drex2-1.qtr

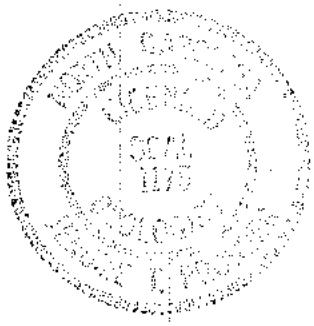
Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

ERM

Sincerely,

ERM-SOUTHEAST, INC.

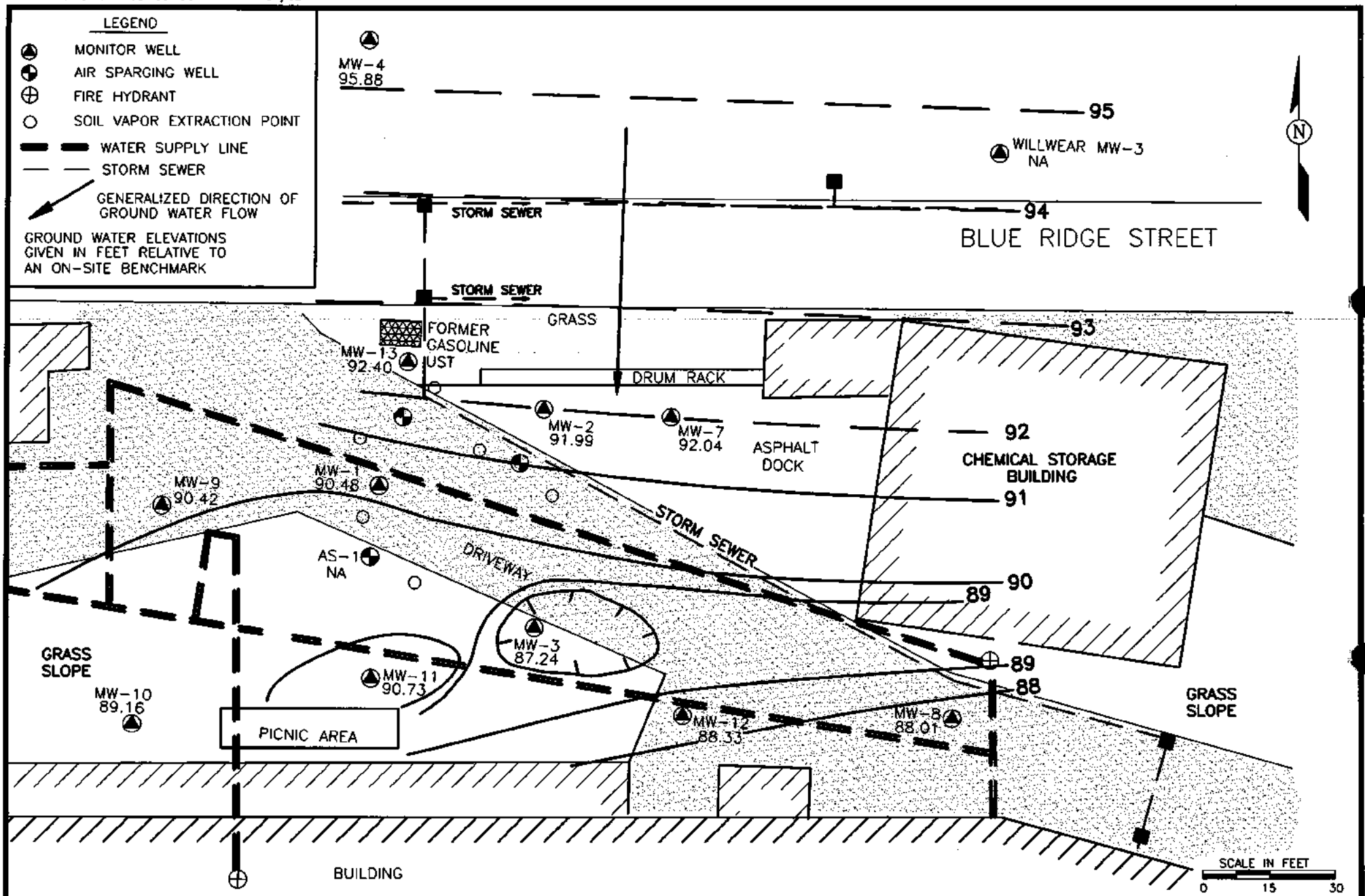
Jerry Prosser, P.G.
Project Manager



cc: S. Carter - Drexel Heritage
M. Lake - MASCO

jp15:drex2-1.qtr

4501ISO4.DWG 03-09-96 1=1 JP/JLP



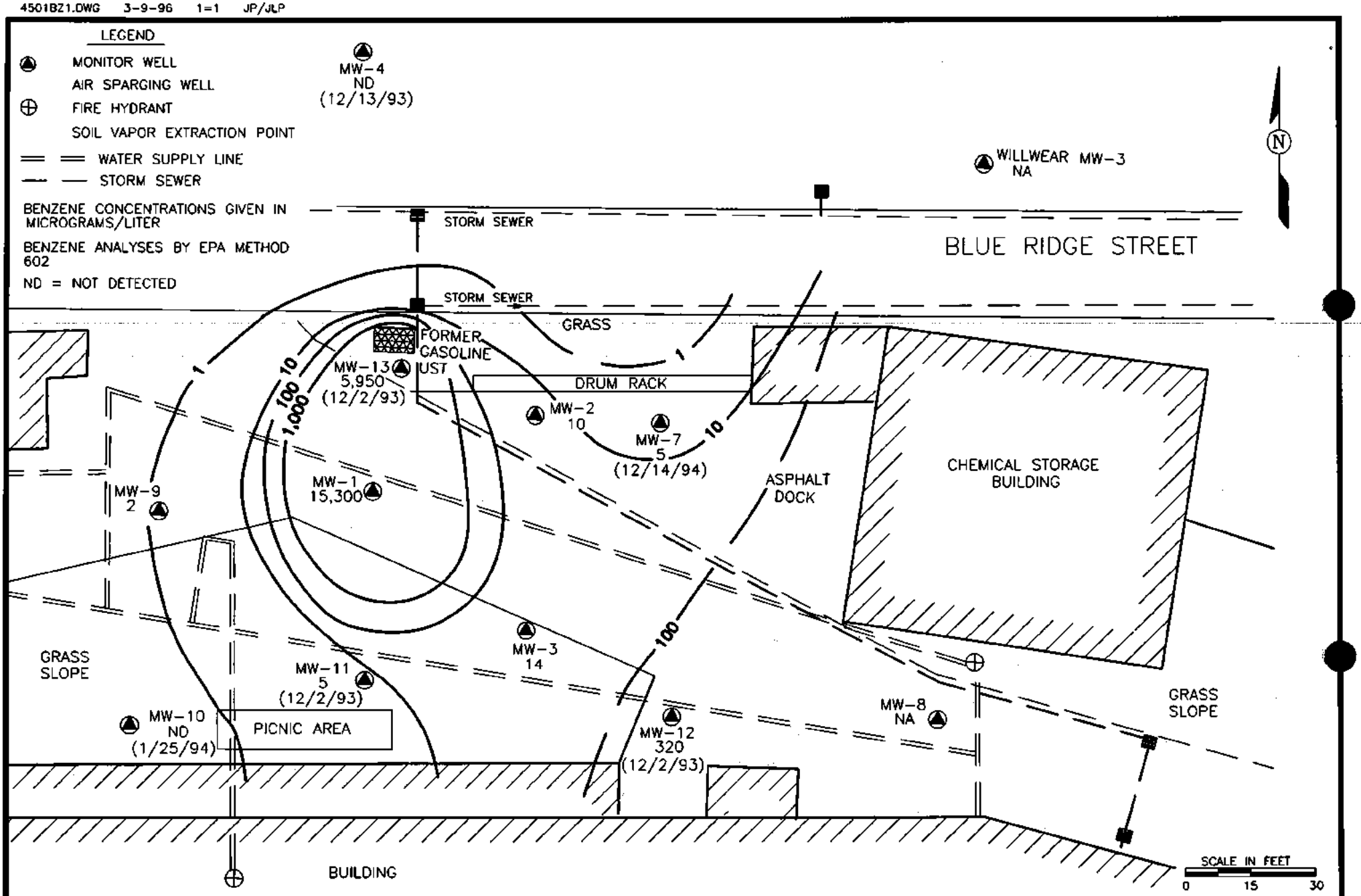
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-3/1/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 1

4501BZ1.DWG 3-9-96 1=1 JP/JLP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-3/1/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22
12/14/95	8.40	90.20	5.65	91.74	6.13	88.93	12.18	95.45
3/1/96	8.12	90.48	5.40	91.99	7.82	87.24	11.75	95.88

	MW-7 95.90		MW-8 89.17				MW-9 99.39	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38
12/14/95	4.20	91.70	1.37	--	--	87.80	9.27	90.12
3/1/96	3.86	92.04	1.16	--	--	88.01	8.97	90.42

	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25
12/14/95	2.94	88.98	1.20	90.91	2.23	88.17	8.46	92.02
3/1/96	2.76	89.16	1.38	90.73	2.07	88.33	8.08	92.40

g:\jerry\drexel43\4501-1.xls

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
	3/1/96	50,800	15,300	23,400	1,800	10,300	5,440
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
	3/1/96	1,460	10	60	70	1,320	<100
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
	3/1/96	101	14	10	51	26	<10
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
	3/1/96	2	2	ND	ND	ND	ND
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	29	530	200

Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

g:\jerry\drexel2\4501-2.xls

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
(EV-1)	2/19/96	24	56	8.95	1.52	<0.5	2.36	73.7	17	136	0.05	0.37
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46
(EV-2)	2/19/96	24	56	13.10	3.78	0.50	3.60	93.9	24	174	0.07	0.48

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 4807
7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-W11549

Sample ID: MW-9

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:59

Project Name: DARNEL HERITAGE PLANT #2 1ST QU.

Date Received: 3/ 2/96

Sampler: JAY LANZY

Time Received: 9:30

State Certification: 287

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	2.9	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Toluene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GFD Surrogate	96.	50 - 150

Report Approved By: Theodore J. Dueitt

Report Date: 3/ 6/96

Theodore J. Dueitt, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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Asheville Regional Office

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-03-1546

Sample ID: MW-1

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:45

Project Name: DREXEL HERITAGE PLANT #2 1ST QU.

Date Received: 3/ 2/96

Sampler: JAY LAZY

Time Received: 9:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	15900	ug/l	900.	1.0	900.	3/ 6/96	13:59	Wasilewski	602
Toluene	53400	ug/l	900.	1.0	900.	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	1860	ug/l	45.0	1.0	45.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	10300	ug/l	45.0	1.0	45.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	5440	ug/l	450.	10.0	45.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	94.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 6/96

Theodore J. Dusila, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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Asheville Regional Office

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A011547

Sample ID: MW-2

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:30

Project Name: DREXEL HERITAGE PLANT #2 1ST OU.

Date Received: 3/ 2/96

Sampler: JAY LANZY

Time Received: 9:30

State Certifications: 327

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	10.0	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Toluene	49.0	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	70.0	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	1320	ug/l	10.0	1.0	10.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	100.	10.0	10.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	102.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 6/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. a207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-401545

Sample ID: MW-3

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 17:15

Project Name: DREXEL HERITAGE PLANT #2 181 OU.

Date Received: 3/ 2/96

Sampler: JAY LANZY

Time Received: 9:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	14.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Toluene	10.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	5:.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	26.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/GRO Surrogate	108.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 6/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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ANALYTICAL REPORT

SRM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A011549

Sample ID: MW-4

Date Collected: 3/ 1/96

Project: 4501

Time Collected: 16:59

Project Name: DREXEL HERITAGE PLANT #2 1ST OU.

Date Received: 3/ 8/96

Sampler: JAY LANZY

Time Received: 9:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method
Benzene	2.0	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Toluene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Ethylbenzene	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Xylenes, total	ND	ug/l	1.0	1.0	1.0	3/ 6/96	13:59	Wasilewski	602
Methyl-t-butylether	ND	ug/l	10.0	10.0	1.0	3/ 6/96	13:59	Wasilewski	602

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

** Surrogate Recoveries **

Surrogate	% Recovery	Target Range
BTEX/BFB Surrogate	98.	50 - 150

Report Approved By: Michael H. Dunn

Report Date: 3/ 8/96

Theodore J. Dudik, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.



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SPECIALIZED ASSAY
ENVIRONMENTAL



2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

Specialized Assays: (800) 765-0980

REFERRING CLIENT

Account: 6207
ERM - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8416 Fax: - -

LING CONTROL NUMBER (FOR LAB USE ONLY) 40154

PROJECT # 4501

P.O. #

IPLERS (Signature-Please Print) JBY C. LANZY

PROJECT NAME Diesel Heritage plant #2. 1st Quarter.

OR LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
11546	mw-1	3-1-96	16:45		X	2	BTEX + MTBE
11547	mw-2	3-1-96	16:30		X	2	BTEX, MTBE
11548	mw-3	3-1-96	17:15		X	2	BTEX, MTBE
11549	mw-4	3-1-96	16:59		X	2	BTEX, MTBE

quished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
	3-1-96 17:00		Kevin Bridwell	3/4/96 0930
quished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
quished by: (Signature)	Date / Time	Received by: (Signature)		
quished by: (Signature)	Date / Time	Received by: (Signature)		

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Groundwater Section
Asheville Regional Office

For further assistance in completing the chain of custody form please refer to the instructions found on the opposite side

MCCO
11091
DREXEL HERITAGE PLT #2 - MARION
MGS 7/[illegible]6

ERM-Southeast, Inc.

Suite 200
7300 Carmel Executive Park
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

July 1, 1996

Mr. Michael E. Streeter
NCDEHNR
Division of Environmental Management
Interchange Building
59 Woodfin Place
Asheville, NC 28801

ERM

Re: Second Quarter 1996 Quarterly Report
Drexel Heritage Plant #2
361 Blue Ridge Street, Marion, North Carolina
Incident #11091

Dear Mr. Streeter:

On behalf of Drexel Heritage Furnishings, Inc., ERM-Southeast is submitting the Second Quarter 1996 ground water monitoring quarterly report for Drexel Heritage Plant #2 located in Marion, North Carolina.

ERM-Southeast gauged the site monitor wells and sampled selected indicator monitor wells on May 30, 1996. A site plan and ground water elevation contour map are shown in Figure 1, and a summary of ground water elevation data is provided in Table 1. Ground water analytical data are graphically shown in Figure 2 and summarized in Table 2. Laboratory data sheets can be referenced in Attachment A. Free product was not detected on the water table at the site during the May 30, 1996 sampling event.

The site SVE/AS remediation system operated continuously during the Second Quarter. The operational performance of the SVE/AS system is summarized in Table 3.

In accordance with the site CAP, Drexel Heritage plans to submit the Third Quarter 1996 quarterly report to DEM by October 30, 1996. Please call myself or Mr. Stanley Carter of Drexel Heritage (704-438-5604) if you have any questions.

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ASHEVILLE REGIONAL OFFICE

Sincerely,

ERM-SOUTHEAST, INC.

Jerry Prosser, P.G.
Project Manager

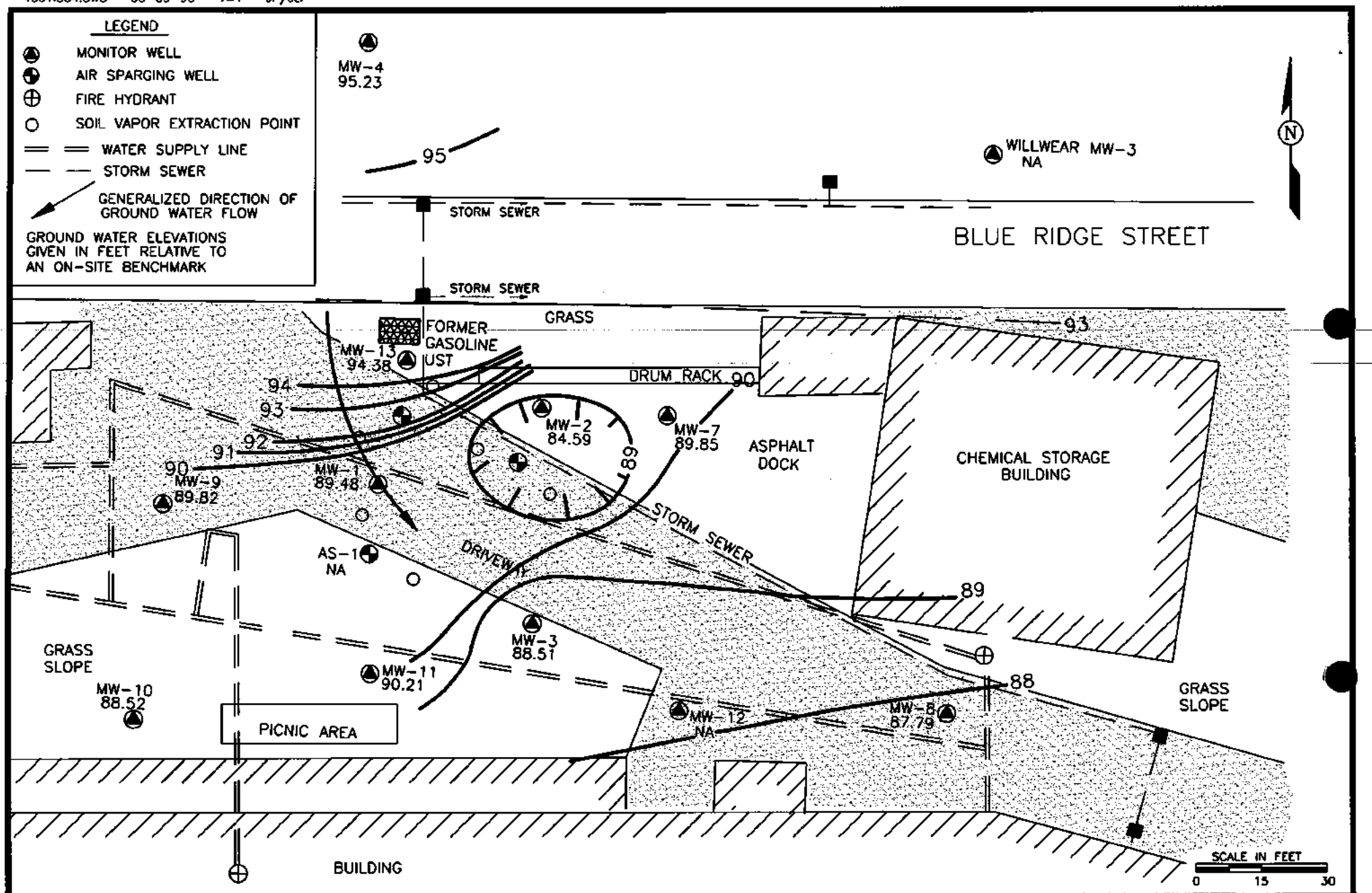
cc: S. Carter - Drexel Heritage
M. Glantz - MASCO

Offices of ERM-Southeast Inc. in:

Brentwood, TN (Nashville)
Kennesaw, GA (Atlanta)
Charlotte, NC
Mobile, AL
Memphis, TN

g:\jerry\drexel2\quarter.rep

4501IS04.DWG 03-09-96 1=1 JP/JLP



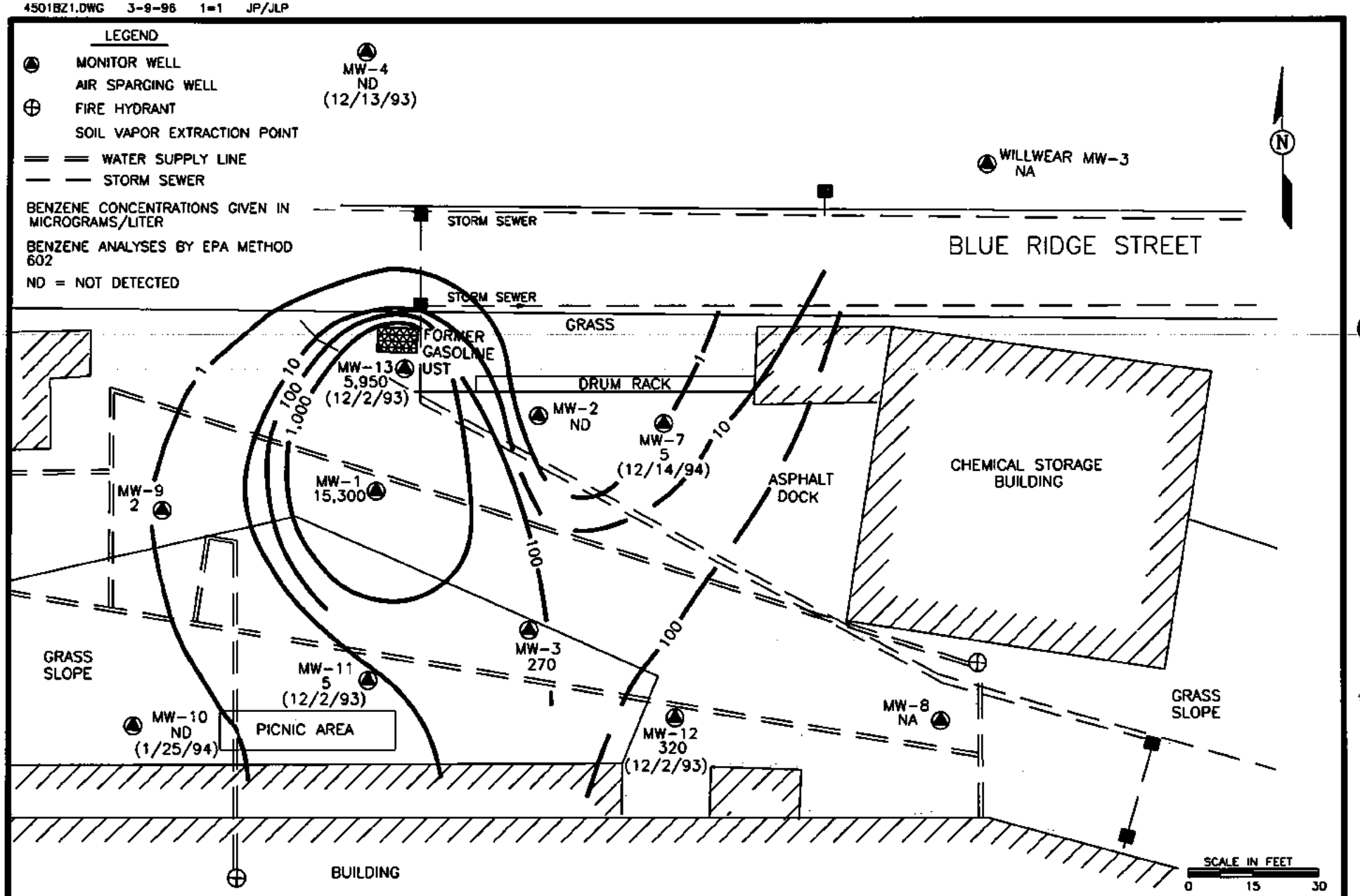
ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUND WATER ELEVATION CONTOUR MAP-3/1/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

4501BZ1.DWG 3-9-96 1=1 JP/JLP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

GROUNDWATER BENZENE ISOCONCENTRATION CONTOUR MAP-5/30/96

DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

TABLE 1
UST AREA GROUND WATER ELEVATION DATA
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

	MW-1 98.60		MW-2 97.39		MW-3 95.06		MW-4 107.63	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	8.85	89.75	9.24	88.15	6.54	88.52	12.75	94.88
1/31/94	8.69	89.91	6.09	91.30	6.37	88.69	12.50	95.13
12/14/94	9.20	89.40	6.31	91.08	6.50	88.56	12.73	94.90
3/10/95	8.76	89.84	5.57	91.82	5.66	89.40	12.01	95.62
5/31/95	8.70	89.90	6.10	91.29	6.44	88.62	12.75	94.88
9/6/95	8.27	90.33	5.45	91.94	6.02	89.04	12.41	95.22
12/14/95	8.40	90.20	5.65	91.74	6.13	88.93	12.18	95.45
3/1/96	8.12	90.48	5.40	91.99	7.82	87.24	11.75	95.88
5/30/96	9.12	89.48	12.80	84.59	6.55	88.51	12.40	95.23

	MW-7 95.90		MW-8 89.17				MW-9 99.39	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	DEPTH TO FREE PRODUCT	PRODUCT THICKNESS	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
12/17/93	4.67	91.23	--	--	--	--	--	--
1/31/94	4.53	91.37	1.93	--	--	--	9.43	89.96
12/14/94	4.76	91.14	1.94	1.88	0.06	87.28	9.65	89.74
3/10/95	4.14	91.76	1.45	--	--	87.72	8.91	90.48
5/31/95	4.52	91.38	1.57	--	--	87.60	9.56	89.83
9/6/95	3.85	92.05	1.25	--	--	87.92	9.01	90.38
12/14/95	4.20	91.70	1.37	--	--	87.80	9.27	90.12
3/1/96	3.86	92.04	1.16	--	--	88.01	8.97	90.42
5/30/96	6.05	89.85	1.38	--	--	87.79	9.57	89.82

	MW-10 91.92		MW-11 92.11		MW-12 90.40		MW-13 100.48	
DATE	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION	DEPTH TO WATER (ft)	GROUND WATER ELEVATION
1/31/94	2.37	89.55	0.74	91.37	2.39	88.01	8.73	91.75
12/14/94	3.19	88.73	0.95	91.16	2.83	87.57	8.97	91.51
3/10/95	2.18	89.74	0.90	91.21	2.54	87.86	8.14	92.34
5/31/95	3.32	88.60	1.65	90.46	2.43	87.97	8.84	91.64
9/6/95	2.91	89.01	1.14	90.97	2.02	88.38	8.23	92.25
12/14/95	2.94	88.98	1.20	90.91	2.23	88.17	8.46	92.02
3/1/96	2.76	89.16	1.38	90.73	2.07	88.33	8.08	92.40
5/30/96	3.40	88.52	1.90	90.21	--	--	6.10	94.38

TABLE 2
GROUND WATER ANALYTICAL RESULTS
FORMER GASOLINE UST AREA
DREXEL HERITAGE PLANT #2
MARION , NORTH CAROLINA

MONITOR WELL	DATE	TOTAL BTEX	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE
MW-1	3/29/93	75,300	25,800	31,400	2,900	15,200	28,400
	8/10/93	68,740	24,700	30,500	2,330	11,210	8,720
	12/14/94	54,880	18,900	22,300	2,180	11,500	1,130
	3/10/95	82,800	27,000	36,000	2,700	17,100	9,000
	5/31/95	49,050	19,800	21,600	900	6,750	4,500
	9/6/95	44,420	14,000	18,900	1,620	9,900	2,340
	12/14/95	49,570	15,800	22,300	1,800	9,670	5,760
	3/1/96	50,800	15,300	23,400	1,800	10,300	5,440
	5/30/96	70,600	15,300	34,600	2,700	18,000	900
MW-2	3/29/93	94	3	13	17	61	ND
	8/10/93	14,356	1,080	6,936	1,330	5,010	ND
	12/14/94	6,797	6	207	994	5,590	ND
	3/10/95	1,190	10	50	140	990	<100
	5/31/95	1,172	18	44	220	890	47
	9/6/95	98	4	3	3	88	<10
	12/14/95	2,526	14	82	180	2,250	40
	3/1/96	1,460	10	60	70	1,320	<100
	5/30/96	23	ND	ND	ND	23	6
MW-3	3/29/93	3,827	17	1,060	1,460	1,290	ND
	8/10/93	14,090	ND	2,590	3,180	8,320	ND
	12/14/94	115	15	42	13	45	ND
	3/10/95	31	6	9	5	11	<10
	5/31/95	8,095	315	3,420	720	3,640	81
	9/6/95	735	30	160	140	405	18
	12/14/95	1,510	70	670	200	570	ND
	3/1/96	101	14	10	51	26	<10
	5/30/96	7,290	270	2,970	720	3,330	100
MW-4	12/13/93	ND	ND	ND	ND	ND	ND
MW-7	12/13/93	ND	ND	ND	ND	ND	ND
	12/14/94	83	5	2	6	70	ND
MW-8	1/25/94	426	10	98	51	267	ND
MW-9	1/25/94	ND	ND	ND	ND	ND	ND
	12/14/94	ND	ND	ND	ND	ND	ND
	3/10/95	ND	ND	ND	ND	ND	ND
	5/31/95	ND	ND	ND	ND	ND	ND
	9/6/95	ND	ND	ND	ND	ND	ND
	12/14/95	ND	ND	ND	ND	ND	ND
	3/1/96	2	2	ND	ND	ND	ND
	5/30/96	3	2	1	ND	ND	9
MW-10	1/25/94	ND	ND	ND	ND	ND	ND
MW-11	12/2/93	252	5	6	51	190	ND
MW-12	12/2/93	4,730	320	980	1,090	2,340	ND
MW-13	12/2/93	22,995	5,950	10,100	2,580	4,365	ND
N. CAROLINA GROUND WATER STANDARD			1	1,000	29	530	200

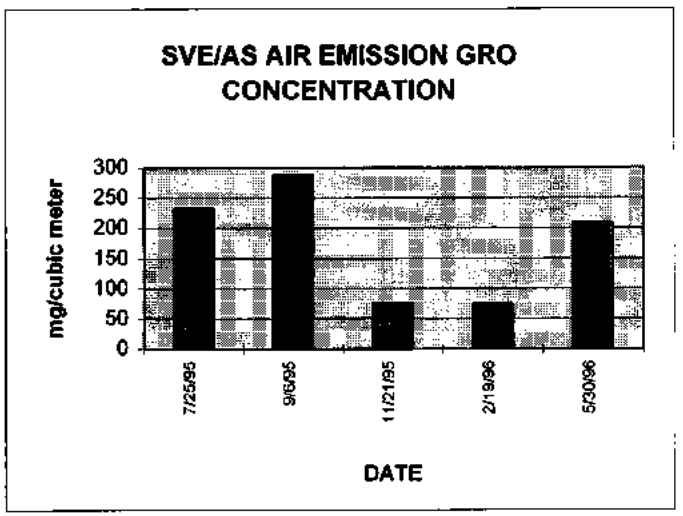
Analytical results given in micrograms per liter.
"--" indicates not analyzed.
Only detected compounds included in table.

BQL = Below Quantitation Limit
MTBE = Methyl tert butyl ether
Analysis by EPA Method 602 for volatile aromatics.

TABLE 3
SVE/AS REMEDIATION SYSTEM AIR EMISSION ANALYTICAL RESULTS
DREXEL HERITAGE PLANT #2
361 BLUE RIDGE STREET
MARION, NORTH CAROLINA

SAMPLE I.D.	DATE	VACUUM (in. H_2O)	AIR FLOW RATE (cfm)	ANALYTICAL RESULT (mg/cubic meter)					EMISSION LOADING RATE			
									POUNDS/YEAR		POUNDS/DAY	
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	GRO	BENZENE	GRO	BENZENE	GRO
SVE/AS-1	7/25/95	40	122	3.66	2.45	1.84	7.33	232	15	934	0.04	2.56
	9/6/95	40	118	84.80	4.97	1.06	6.64	289	330	1,125	0.90	3.08
	11/21/95	42	110	--	--	--	--	75.6	NA	274	NA	0.75
(EV-1)	2/19/96	24	56	8.95	1.52	<0.5	2.36	73.7	17	136	0.05	0.37
	5/30/96	32	80	16.90	5.87	1.66	13.70	210	45	554	0.12	1.52
SVE/AS-2	7/25/95	40	122	2.24	<0.5	<0.5	3.19	11.5	9	46	0.02	0.13
	11/21/95	42	245	--	--	--	--	156	NA	1,261	NA	3.46
(EV-2)	2/19/96	24	56	13.10	3.78	0.50	3.60	93.9	24	174	0.07	0.48

GRO = gasoline range organics
cfm = cubic feet/minute
mg = milligrams
SVE/AS = soil vapor extraction/air sparging
SVE/AS-1 air sample collected before emission control
SVE/AS-2 air sample collected after emission control
NA = Not Available
-- = not analyzed



SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. (ERM7

7510 DARYEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A021548

Sample ID: MW-1

Date Collected: 5/31/96

Project: 4501

Time Collected: 14:50

Project Name: DREXEL HERITAGE #2

Date Received: 6/3/96

Sampler: JAY LANEY

Time Received: 8:00

State Certifications: DNT

Sample Type: Water

Rule I.D.:

Analyte	Result	Units	Report Limit	Dupe Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	15500	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Toluene	24e00	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Ethylbenzene	2390	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Xylenes, total	18600	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340
Methyl-t-butylether	900.	ug/l	450.	1.0	450	6/ 2/96	17:13	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB1/300 Surrogate	103.	50 - 150

Report Approved By: Michael H. Dunn Report Date: 6 3/96

Theodore J. Dvalla, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 0607

7000 CAPITAL BOULEVARD PARK
CHARLOTTE, NC 28226

Lab Number: 96-A0015549

Sample ID: 6W-2

Date Collected: 5/30/96

Project: 4501

Time Collected: 13:30

Project Name: DIESEL RELEASE #2

Date Received: 5/31/96

Submitter: JAY LEHEY

Time Received: 2:30

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Dupn Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	ND	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Toluene	ND	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Ethylbenzene	ND	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Xylenes, total	23.0	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340
Methyl-t-butylether	5.0	ug/l	1.0	1.0	1	6/ 2/96	17:51	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BTE1/602 Surrogate	101.	50 - 150

Report Approved By: Michael H. Dunn Report Date: 6/ 2/96

Theodore J. Dueitt, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6007

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A031550

Sample ID: MW-3

Date Collected: 5/30/96

Project: 4001

Time Collected: 14:45

Project Name: DIESEL HERITAGE #2

Date Received: 5/31/96

Sampler: JAY LANEY

Time Received: 8:30

State Certifications: 337

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	270.	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Toluene	2970	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Ethylbenzene	720.	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Xylenes, total	8330	ug/l	90.0	1.0	90	6/ 2/96	18:28	Wasilewski	602	5340
Methyl-t-butylether	100.	ug/l	10.0	1.0	10	6/ 2/96	18:28	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB1/GRO Surrogate	99.	50 - 150

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7300 DARIEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A381550

Sample ID: MW-3

Date Collected: 5/30/96

Project: 6207

Time Collected: 14:45

Project Name: DARIEL HERITAGE #2

Date Received: 5/31/96

Sampler: JAY LANDY

Time Received: 5:30

State Certification: 387

Sample Type: Water

Site I.D.:

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range

Report Approved By: Michael H. Dunn Report Date: 6/ 3/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny R. Hale, M.S.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

EMS - SOUTH-EAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Numbers: 96-A0811551

Sample ID: MW-9

Date Collected: 5/30/96

Project: 6701

Time Collected: 15:25

Project Name: DREXEL HERITAGE #8

Date Received: 5/31/96

Sampler: JIM LANZY

Time Received: 8:30

State Certification: SCP

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	2.0	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Toluene	1.0	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Ethylbenzene	ND	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Xylenes, Total	ND	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340
Methyl-t-butylether	9.0	ug/l	1.0	1.0	1	6/ 2/96	19:06	Wasilewski	602	5340

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB/602 Surrogate	99.	50 - 150

Report Approved By: Michael H. Quan Report Date: 6/ 3/96

Theodore J. Duello, Ph.D.
Michael H. Quan, M.S.
Danny B. Hale, M.C.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

ERM - SOUTHEAST, INC. 6207

7500 CAPWELL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-A03[illegible]

Sample ID: TRIP BLANK

Date Collected:

Project: 4401

Time Collected:

Project Name: DRIVAL HERITAGE #2

Date Received: 5/31/96

Sampler: JAY LANZY

Time Received: 8:30

State Certifications: SCT

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Benzene	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408
Toluene	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408
Ethylbenzene	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408
Xylenes, total	ND	ug/l	1.0	1.0	1	6/ 2/96	11:31	S. Wani	602	5408

ND = Not detected at the report limit.

** QUALITY CONTROL DATA **

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BFB/600 Surrogate	94.	50 - 150

Report Approved By: Michael H. Dunn Report Date: 6/ 3/96

Theodore J. Quelle, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ERM - SOUTHEAST, INC. 6207

7300 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

CHAIN OF CUSTODY

Project Number: 4501 | Sampler: JAYC LANEY, Ben Hooper

Project Name: DREXEL HERITAGE # 2 | SAE Quote:

Lab No.	Field Number	Date	Time	Matrix	Grab	Comp	Bottles	Analysis Requested: BTEX	MTBE
-A031548	MW-1	5-30-96	14:50	H_2O	X		2	X	X
-A031549	MW-2	5-30-96	15:20	H_2O	X		2	X	X
-A031550	MW-3	5-30-96	14:45	H_2O	X		2	X	X
-A031551	MW-4	5-30-96	15:25	H_2O	X		2	X	X
A031552	TRIP	5-30-96					1		

Relinquished by:	D/T	Received by:	D/T	Relinquished by:	D/T	Received by:	D/T
[signature]	5-30-96 1600						
Relinquished by:	D/T	Received by:	D/T	Relinquished by:	D/T	Received by LAB [signature]	D/T 5/31/96 0830

Cooler Temperature When Recevied:

Laboratory Project Number: 45185

Cooler Seals Intact?

Fed-X Air Bill Number:

SPECIAL INSTRUCTIONS:

COPY 1

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

SRM - SOUTHCRAFT, INC. 6207

7800 CARMEL EXECUTIVE PARK
CHARLOTTE, NC 28226

Lab Number: 96-4031566

Sample ID: SVE/AS-1

Date Collected: 5/30/96

Project: 4501

Time Collected: 13:40

Project Name: DREXEL HERITAGE PLANT #2

Date Received: 5/31/96

Sampler: JAY LANEY

Time Received: 9:30

Air Certificate #: 510

Sample Type: Air Bag

Analyte	Result	Units	Date	Time	Analyst	Method
Toluene	5.87	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
Benzene	1e.9	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
Xylene	10.7	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
Ethyl benzene	1.66	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18
GPO	210.	mg/m3	6/ 5/96	14:21	B.Norton	EPA-18

Report Approved by: Michael H. Dunn Report Date: 6. 5/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Kenny E. Hale, M.S.

COPY 3

SPECIALIZED ASSAY
ENVIRONMENTAL

2960 Foster Creighton Drive
Nashville, TN 37204
615-726-0177
FAX 615/726-3404

Specialized Assays: (800) 765-0980

REFERRING CLIENT

Account: 6207
ERM - Southeast, Inc.
Jerry Prosser
7300 Carmel Executive Park Suite 200
Charlotte, NC 28226
Ph: 704-541-8416 Fax: - -

NG CONTROL NUMBER (FOR LAB USE ONLY) 45195

PROJECT # 4501

P.O. #

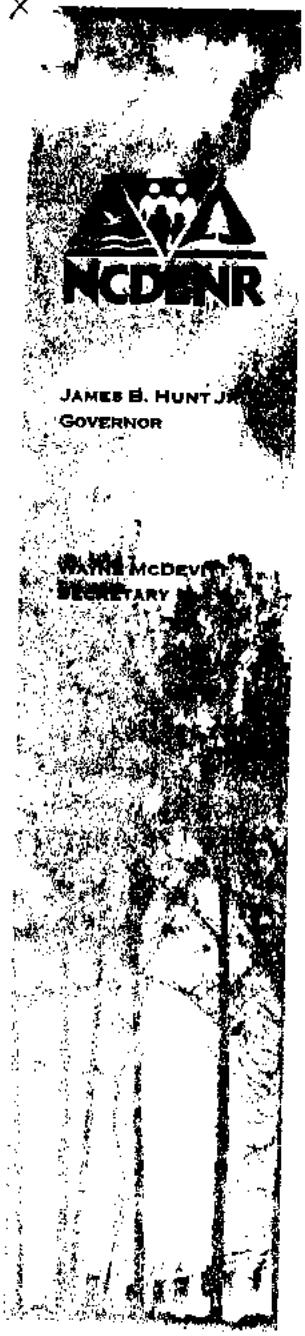
ERS (Signature-Please Print) J.C. Lantz

PROJECT NAME Drexel Heritage Plant #2

R LAB USE ONLY ACC#	SAMPLE DESCRIPTION	DATE	TIME	COMP	GRAB	# OF CONT	ANALYSIS REQUESTED
0031586	SVE/AS-1	5-30-96	1300		X	1	BTEX + GRO

ished by: (Signature)	Date / Time	Received by: (Signature)	Received for Laboratory by:	Date / Time
J.C. Lantz	5-30-96 14:00			5/31/96 0830
ished by: (Signature)	Date / Time	Received by: (Signature)	Remarks	
ished by: (Signature)	Date / Time	Received by: (Signature)	AIR SAMPLE	
ished by: (Signature)	Date / Time	Received by: (Signature)		

or further assistance in completing the chain of custody form please refer to the instructions found on the opposite side



NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
ASHEVILLE REGIONAL OFFICE

DIVISION OF WATER QUALITY

April 21, 1998

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Z 372 625 762

Mr. Stanley Carter
Drexel Heritage Furnishings
211 East Fleming Drive
Morganton, NC 28655

RE: Notice of No Further Action
15A NCAC 2L .0115(h)
RISK-BASED ASSESSMENT AND CORRECTIVE ACTION FOR PETROLEUM UNDERGROUND STORAGE TANKS
Drexel Heritage Plant #2
361 Blue Ridge Street, Marion
McDowell County, North Carolina
Incident No. 11091
Low Risk Classification

Dear Mr. Carter :

April 3, 1998, the Division of Water Quality (DWQ), Asheville Regional Office received a Groundwater Monitoring Report with Site Closure Request for the above-referenced site. A review of the report shows that soil contamination does not exceed the industrial/commercial maximum soil contaminant concentrations established in 15A NCAC 2L .0115(m). A review of the Groundwater Monitoring Report shows that contaminated groundwater does not exceed gross contamination levels that were established in 15A NCAC 2L .0115(g).

Based on information provided to date, the DWQ determines that no further action is required for this incident. This determination is conditional pending completion of the public notice specified below. Once proper public notice has been given, this determination will apply unless the DWQ later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, **is not suitable** for use as a water supply.

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the DWQ of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the DWQ to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you must comply with the public notice requirements of 15A NCAC 2L .0115(k) as specified below. **If public notice is not provided as required, this no further action determination will be deemed invalid.** Within **30 days** of receipt of this no further action notice, you must provide a copy of this notice to the following persons:

- local health director;
- chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- all property owners and occupants within or contiguous to the area containing contamination; and
- all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action notice must be sent to the persons listed above by certified mail. If it is impractical to provide notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this notice in a prominent place where the occupants are most likely to see it.

Within **60 days** of receiving this no further action notice, you must provide the DWQ, Asheville Regional Office with proof of receipt of the copy of the notice or of refusal by the addressee to accept delivery of the copy of the notice. If a copy of the notice is posted, you must provide the DWQ with a description of the manner in which the notice was posted.

Interested parties may examine the Groundwater Monitoring Report with Site Closure Request by contacting Mr. Jerry Prosser with ERM, Southeast at (704) 541-8345. In addition, the DWQ, Asheville Regional Office has the Groundwater Monitoring Report with Site Closure Request along with other site information on file and available for public review. Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Site Closure Request may be submitted to the regional office.

Asheville Regional Office
59 Woodfin Place, Asheville NC 28801
(704) 251-6208

Please be advised that you must close any monitoring wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113.

Should you have any questions concerning this notice, please contact Mike Streeter at (704) 251-6208.

Sincerely,

Donald R. Link

Donald R. Link
Regional Groundwater Supervisor

Attachments: 15A NCAC 2C .0113
Well Abandonment Form

cc: Burrie Boshoff

NFA-LOV

PS Form 3800, April 1995

Z 372 625 762

North Carolina Department of Environment and Natural Resources
59 Woodfin Place, Asheville, NC 28801

GW

STANLEY CARTER
DREXEL HERITAGE FURNISHINGS
211 EAST FLEMING DRIVE
MORGANTON, NC 28655

4/22/98

SENDER:
Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
Print your name and address on the reverse of this form so that we can return this card to you.
Attach this form to the front of the mailpiece, or on the back if space does not permit.
Write "Return Receipt Requested" on the mailpiece below the article number.
The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

4a. Article Number
Z 372 625 762

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
4-24-98

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
X

Is your RETURN

PS Form 3811, December 1994 Domestic Return Receipt

102595-97-B-0179

Thank You for using Return

MC 11091
MES

RECEIVED
SEP - 3 1998
WET SECTION
ASHEVILLE REGIONAL OFFICE

Environmental
Resources
Management

7300 Carmel Executive Park
Suite 200
Charlotte, NC 28226
(704) 541-8345
(704) 541-8416 (Fax)

August 31, 1998

Mr.Mike Streeter
NCDEHNR
Division of Waste Management
Underground Storage Tank Division
59 Woodfin Place
Asheville, North Carolina 28801

ERM

Re: Monitor Well Abandonment Records
Drexel Heritage Furnishings, Inc. - Plant #2
361 Blue Ridge Street
Marion, North Carolina

Dear Mike:

On behalf of Drexel Heritage Furnishings, Inc., Environmental Resources Management, Inc. is submitting a monitor well abandonment record for 14 monitor wells, 6 soil vapor extraction wells, and 3 air sparge wells that were abandoned on August 28, 1998 at the above referenced site.

Please contact me if you have any questions.

Sincerely,

ENVIRONMENTAL RESOURCES MANAGEMENT, INC.

Jay C. Lanzy
Staff Geologist

Cc: Stanley Carter
Drexel Heritage Furnishings, Inc.

jp13:ex4953.dem

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-1

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: MARION County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings PLANT #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 18 DIAMETER: 2"

7. CASING REMOVED:

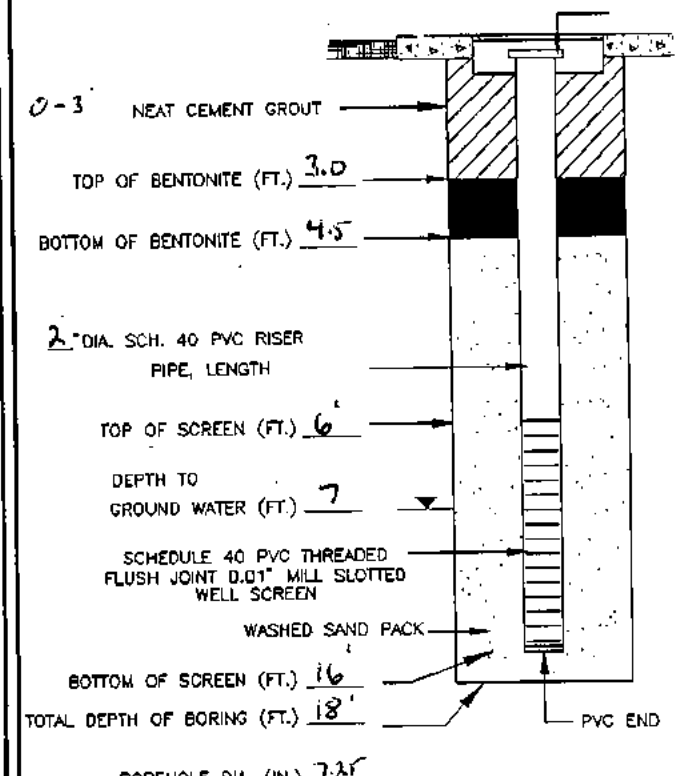
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

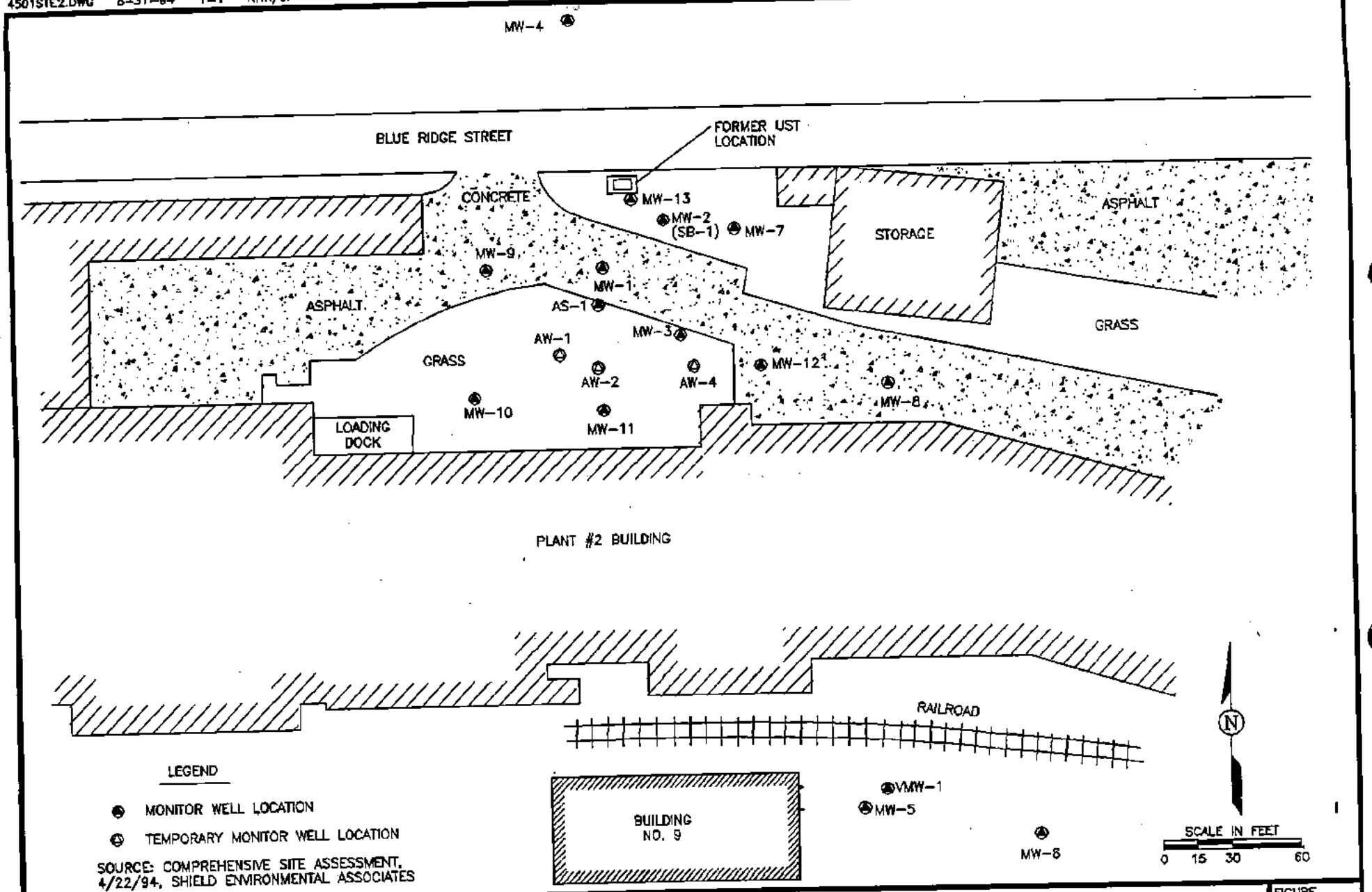
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-2

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
35082-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 17.5 DIAMETER: 2"

7. CASING REMOVED:

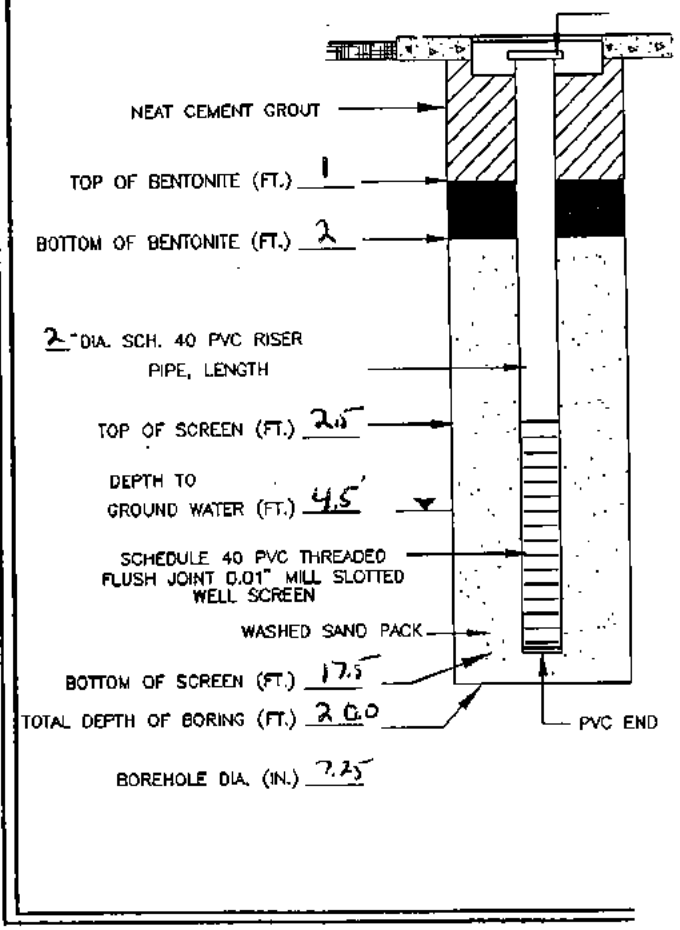
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

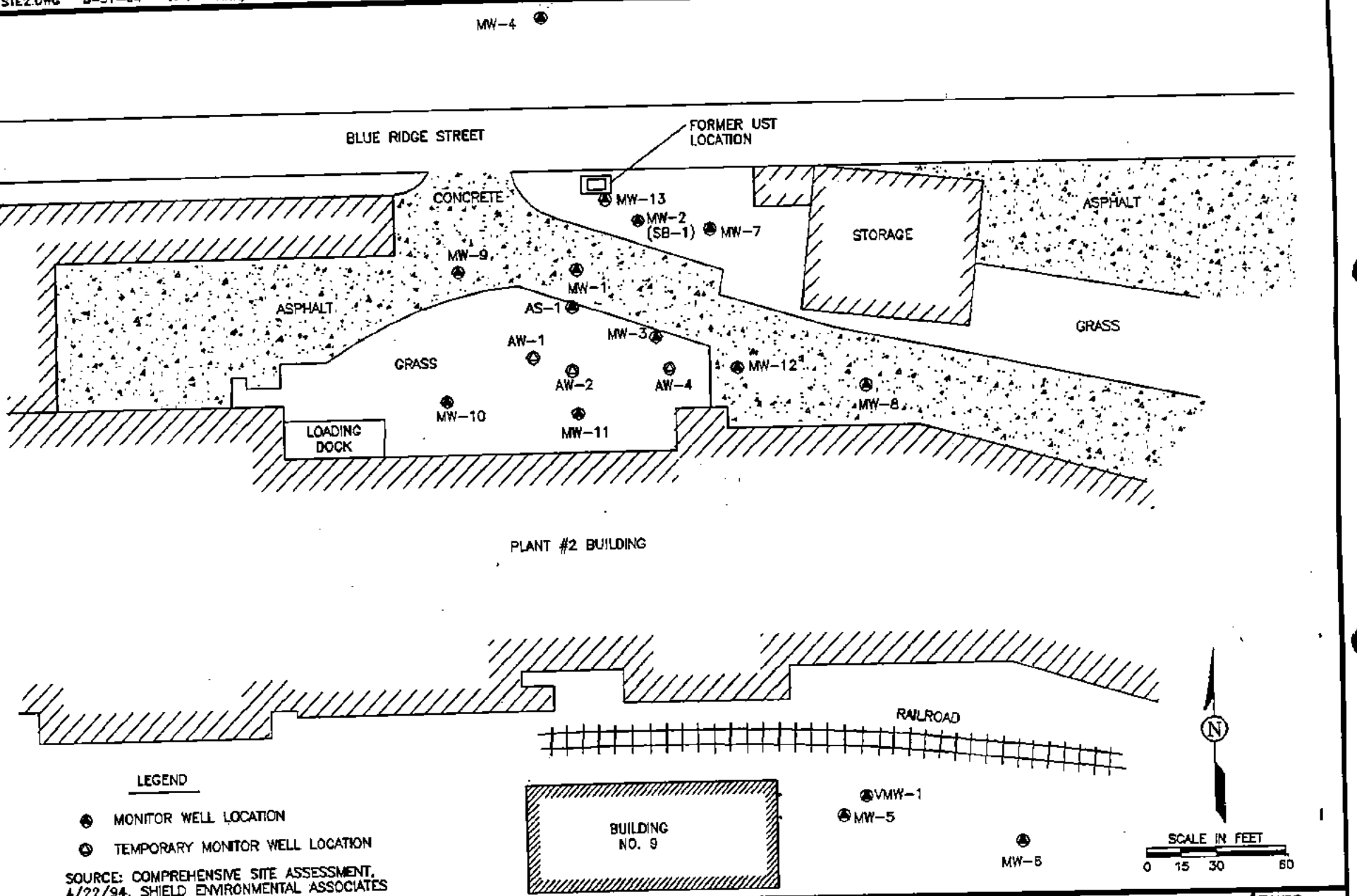
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA

ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-3

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: MARION County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 12' DIAMETER: 2"

7. CASING REMOVED:

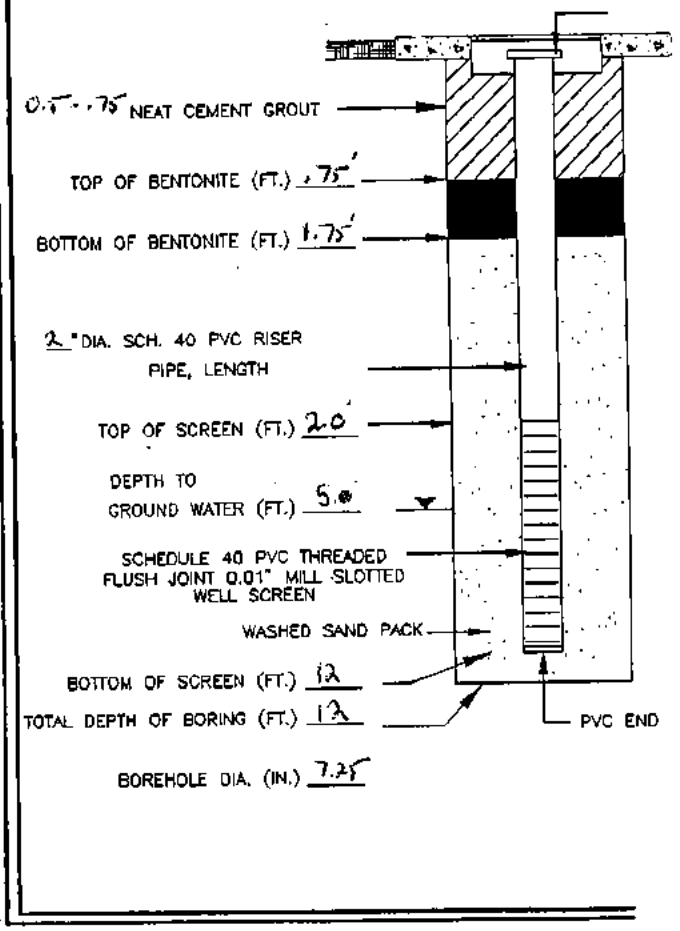
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	3/4	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

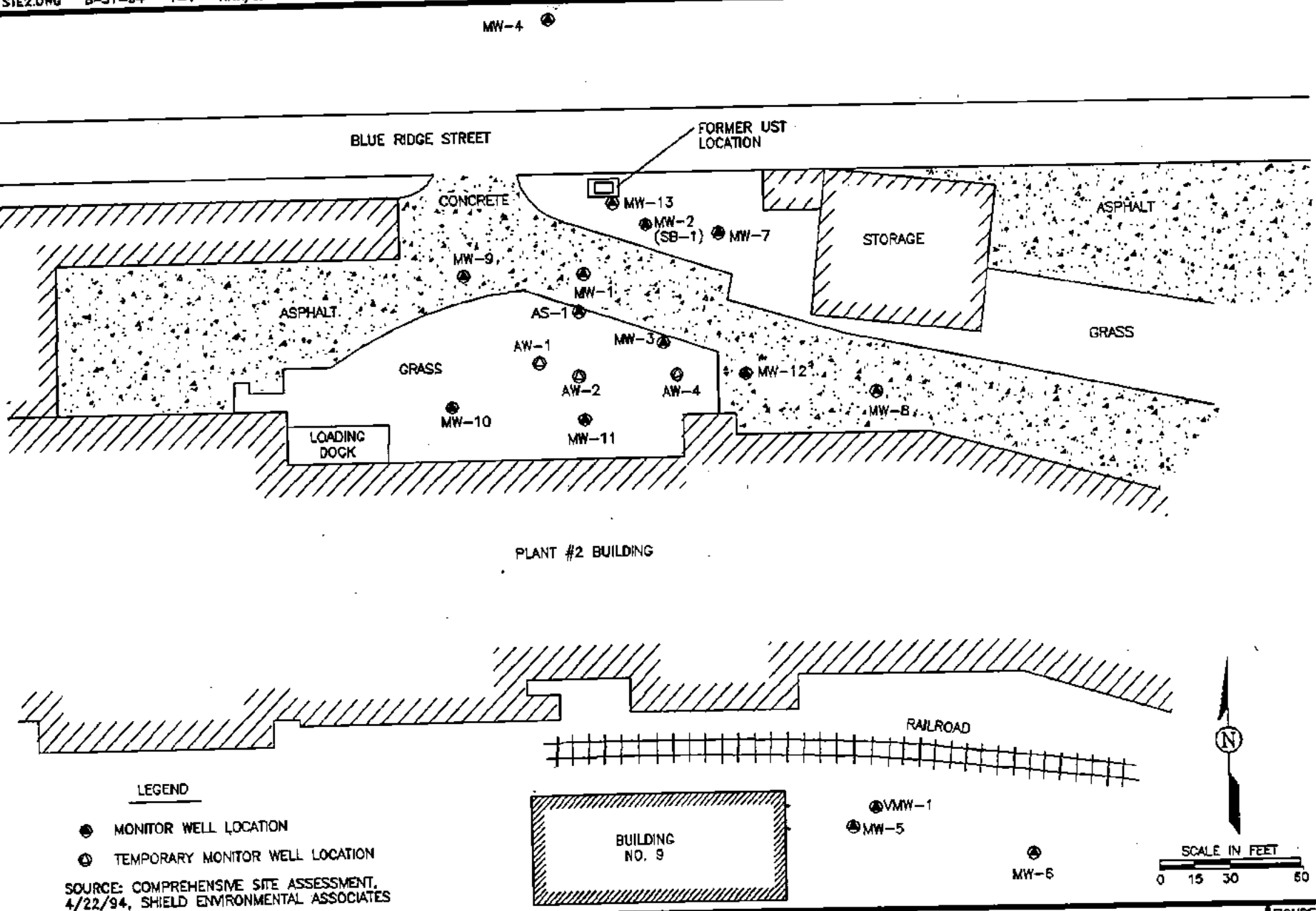
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-4

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 22' DIAMETER: 2"

7. CASING REMOVED:

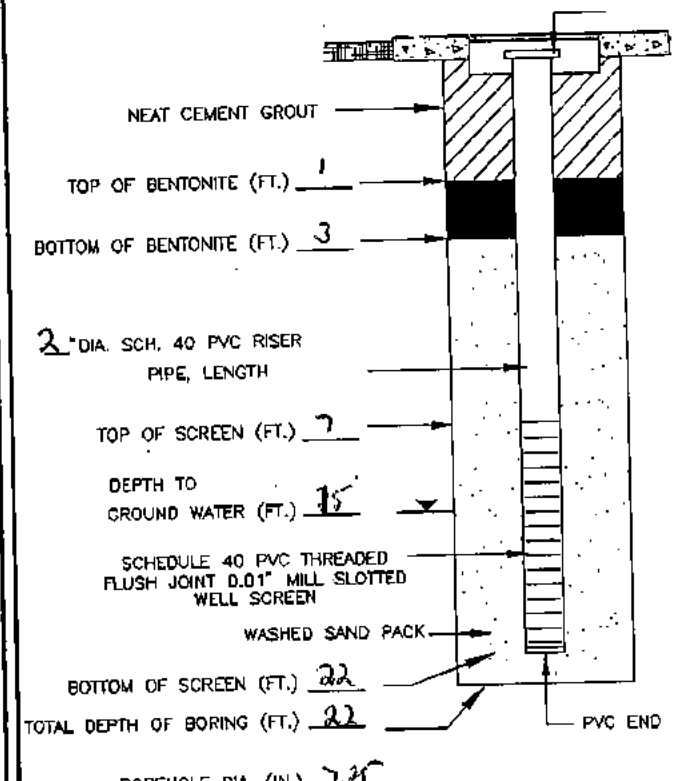
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1.5	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

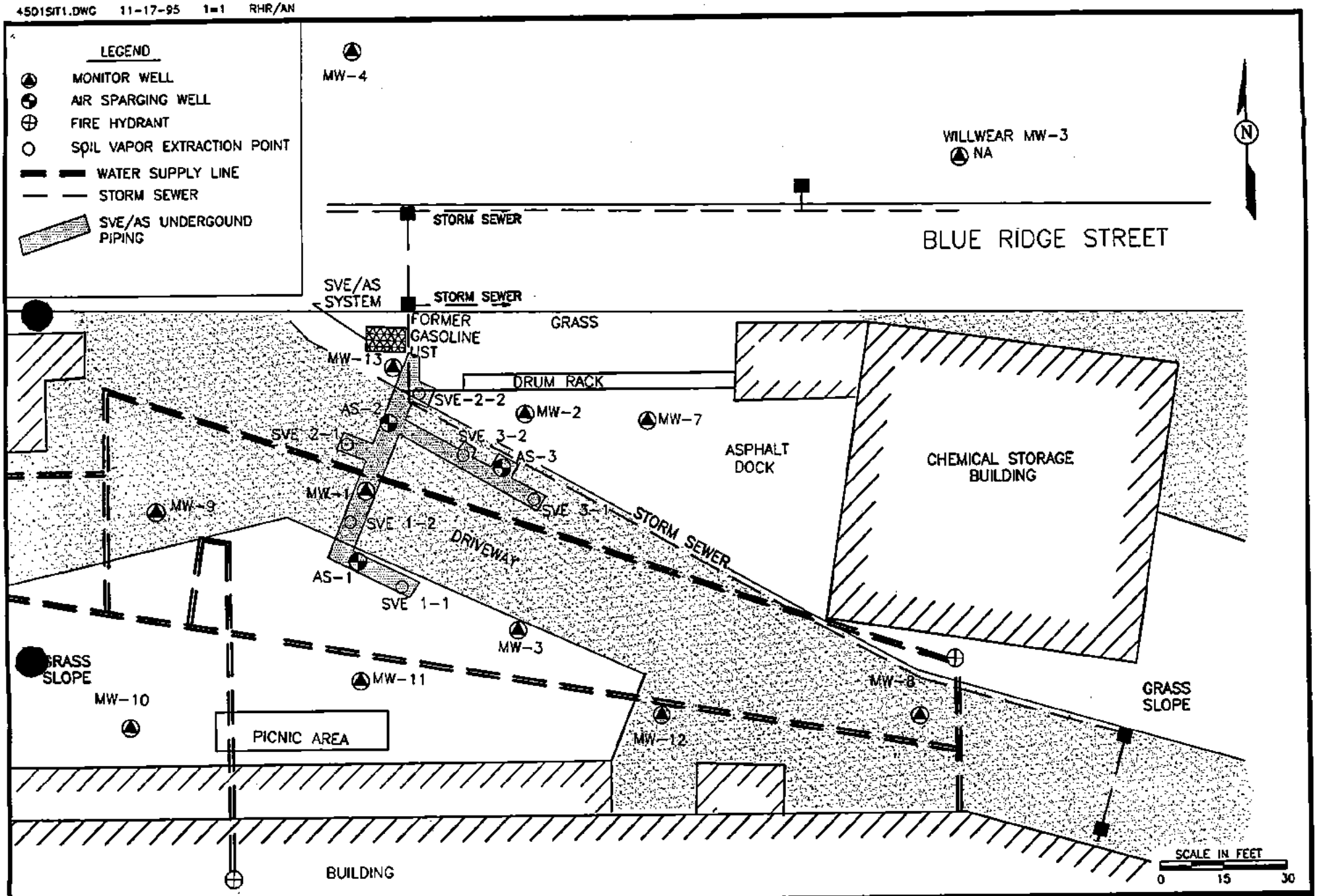
Signature of Contractor or Agent Jay Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-5

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3708.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 19 DIAMETER: 2"

7. CASING REMOVED:

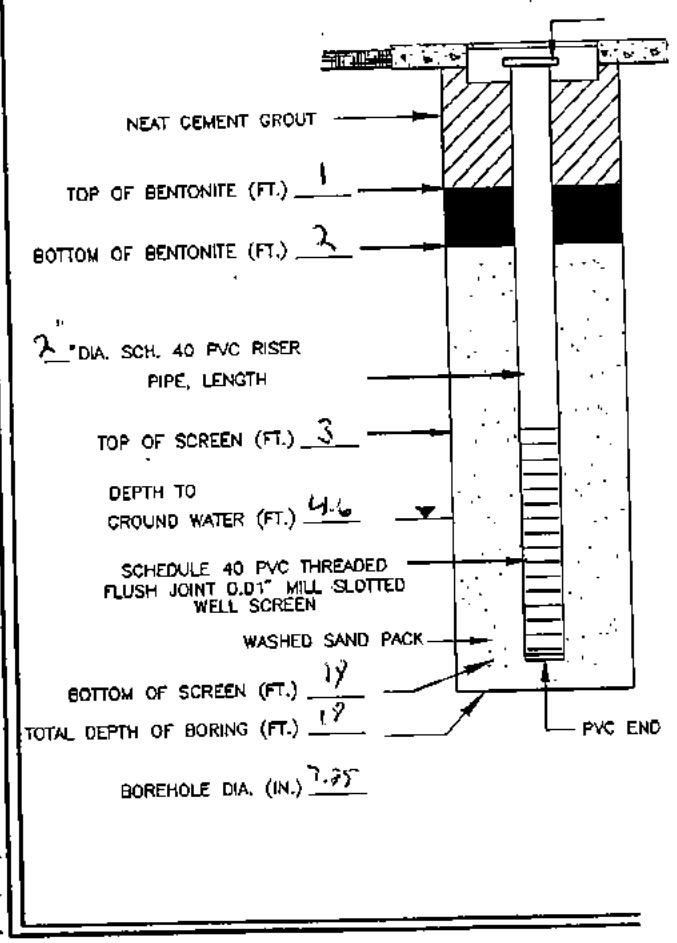
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement	Sand cement
bags of cement 1	bags of cement
gals. of water .5	yds. of sand
	gals. of water

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

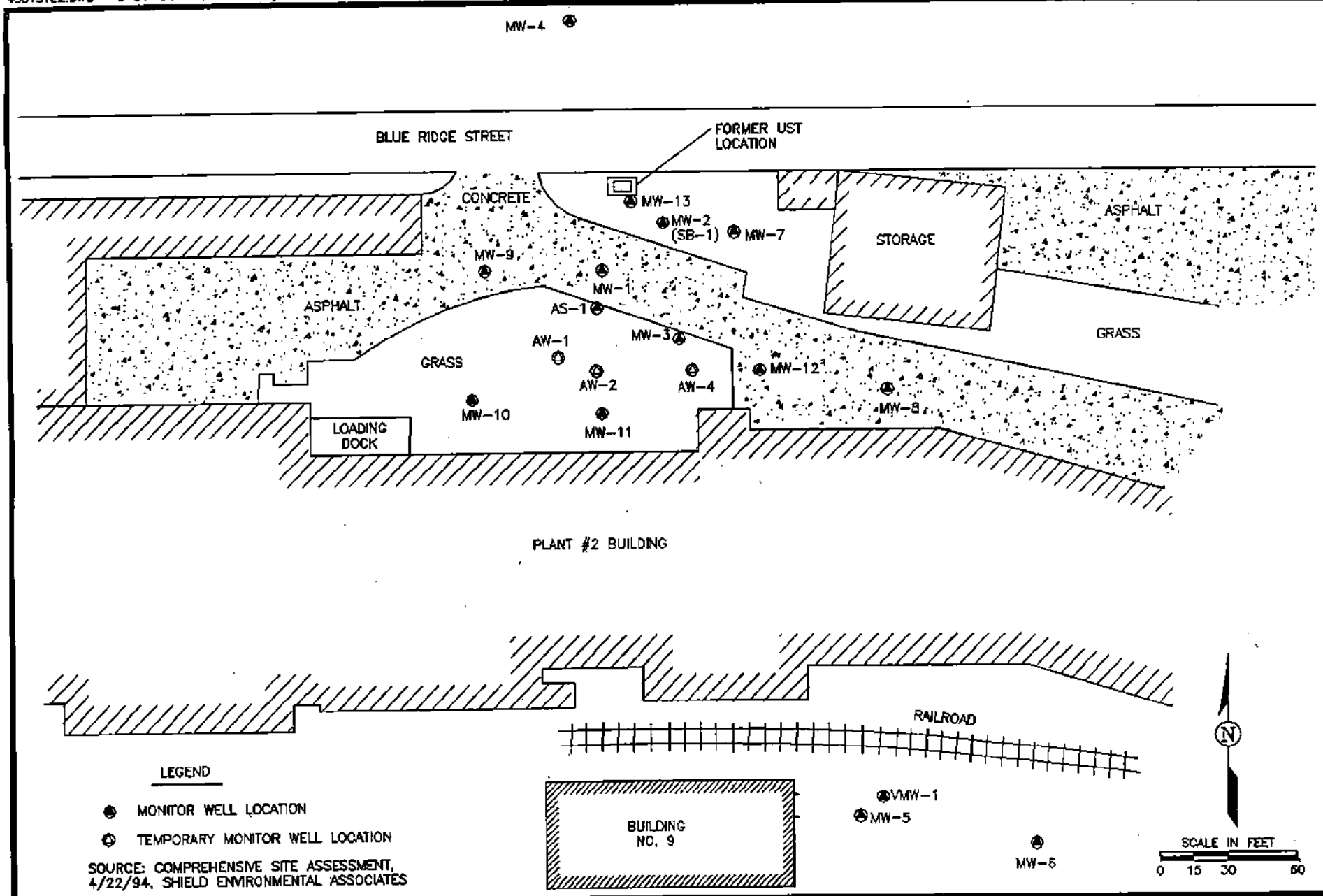
Signature of Contractor or Agent Jay C Stamp Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE 2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

MW-6

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 18 DIAMETER: 2"

7. CASING REMOVED:

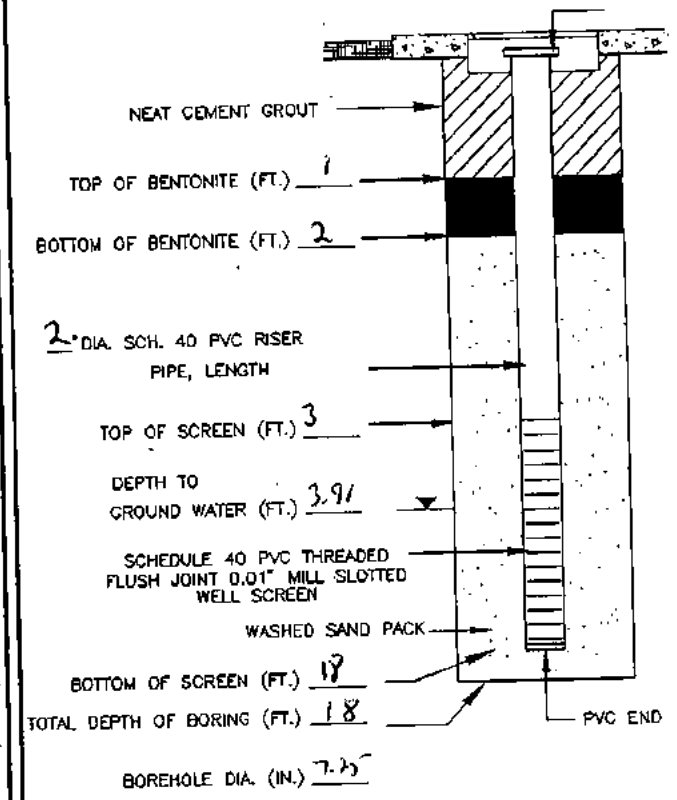
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

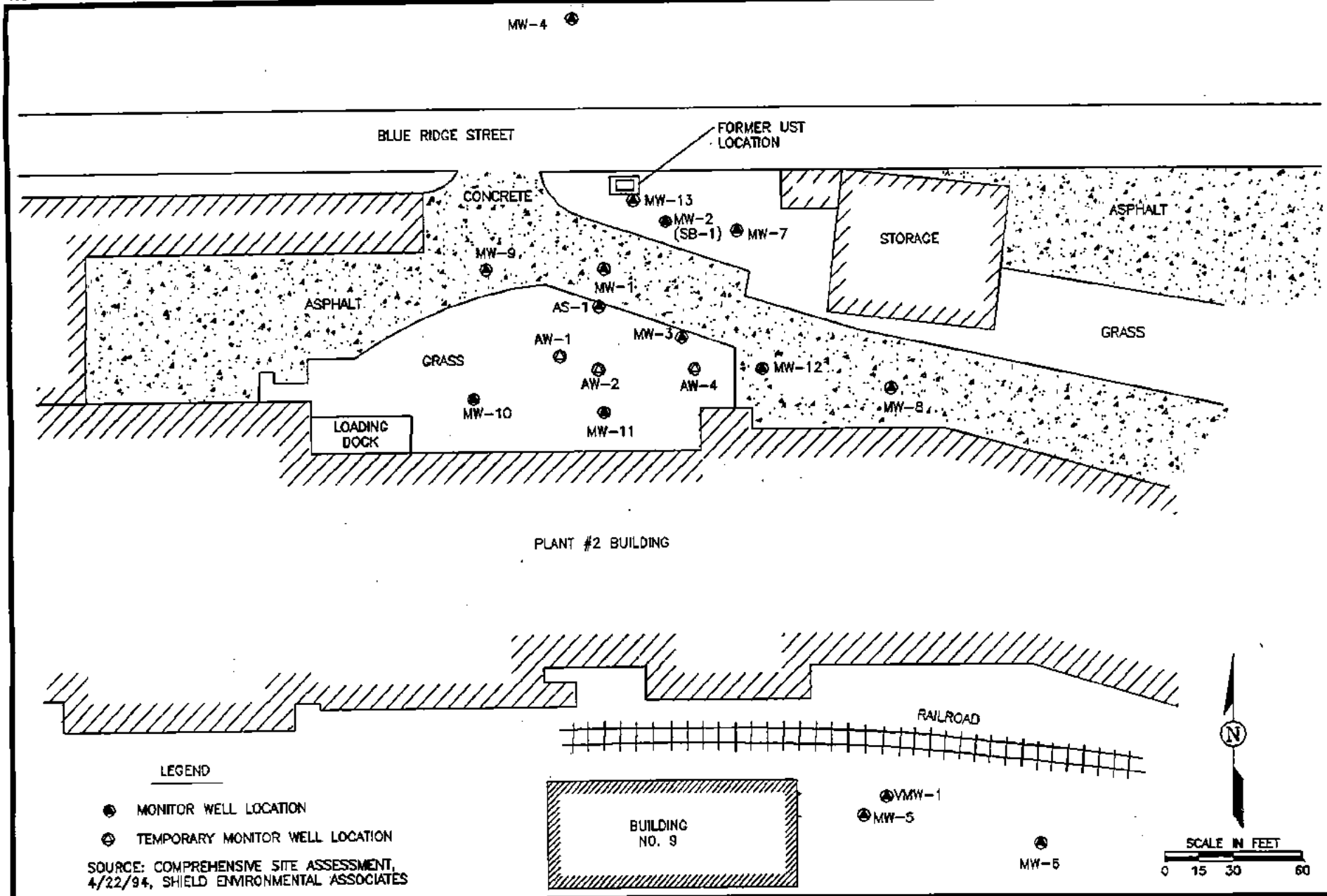
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-7

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
35082-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 18 DIAMETER: 2"

7. CASING REMOVED:

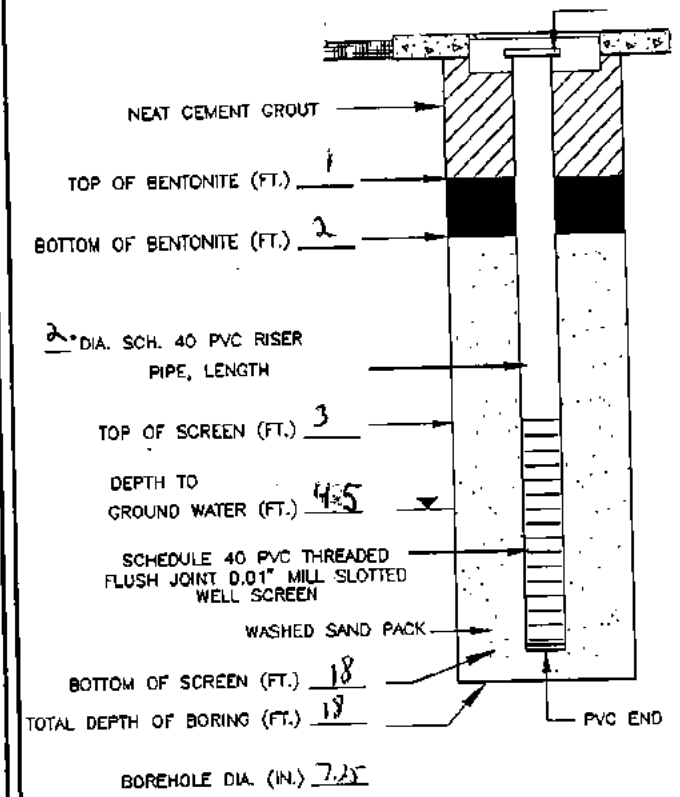
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement	Sand cement
bags of cement 1	bags of cement -
gals. of water .5	yds. of sand -
	gals. of water -

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

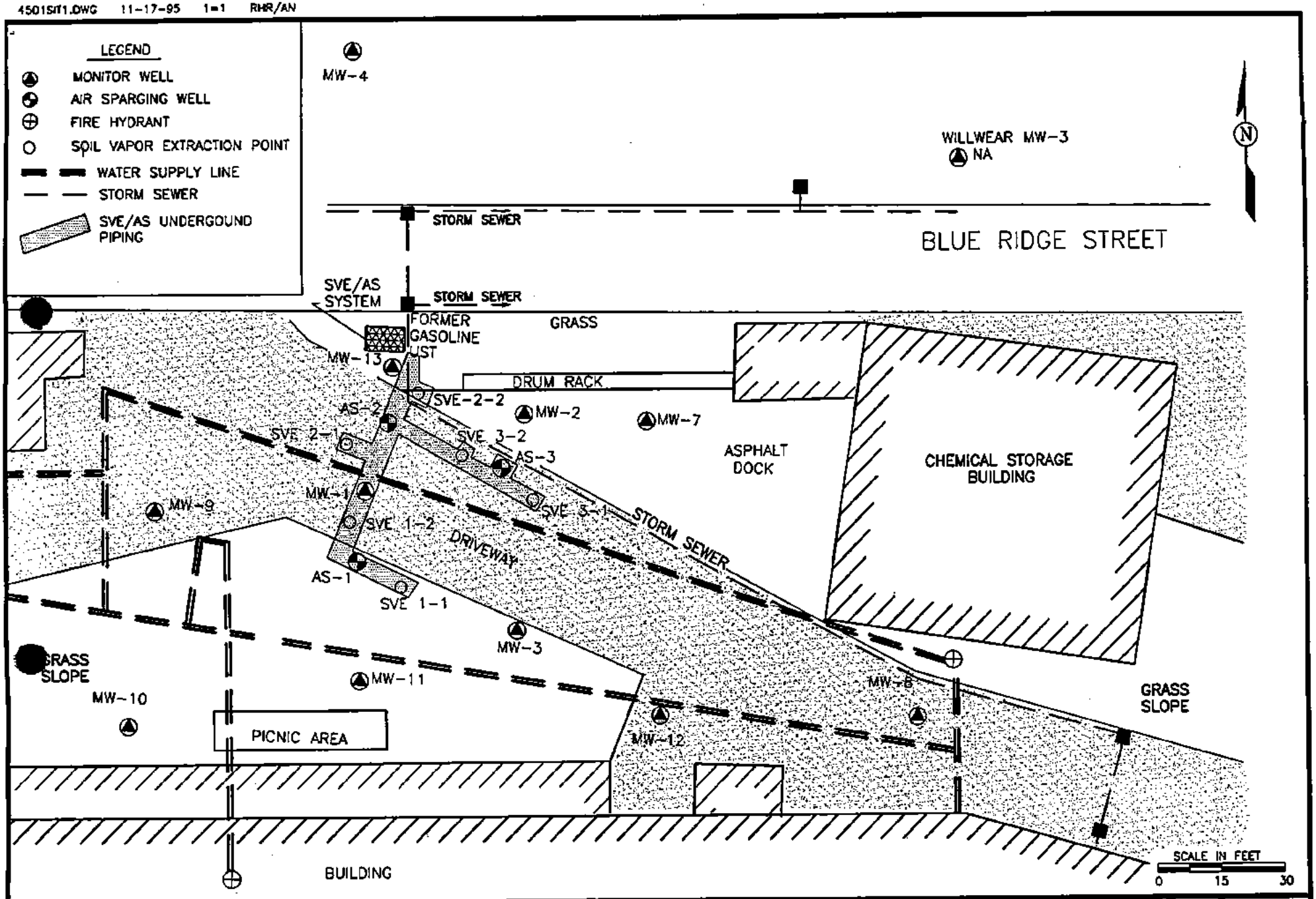
Signature of Contractor or Agent Jay C Lampe Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-8

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 12 DIAMETER: 2"

7. CASING REMOVED:

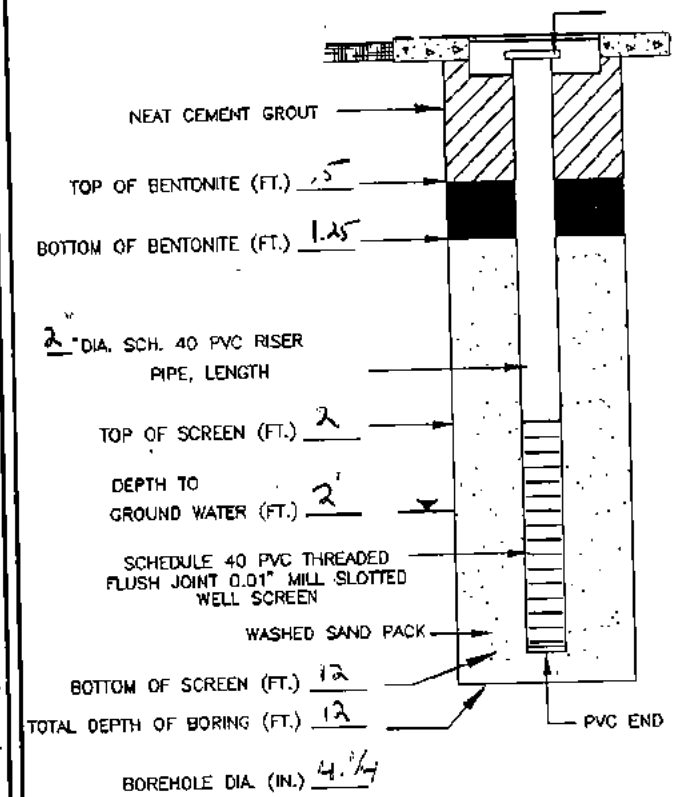
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.5	bags of cement	-
gals. of water	.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

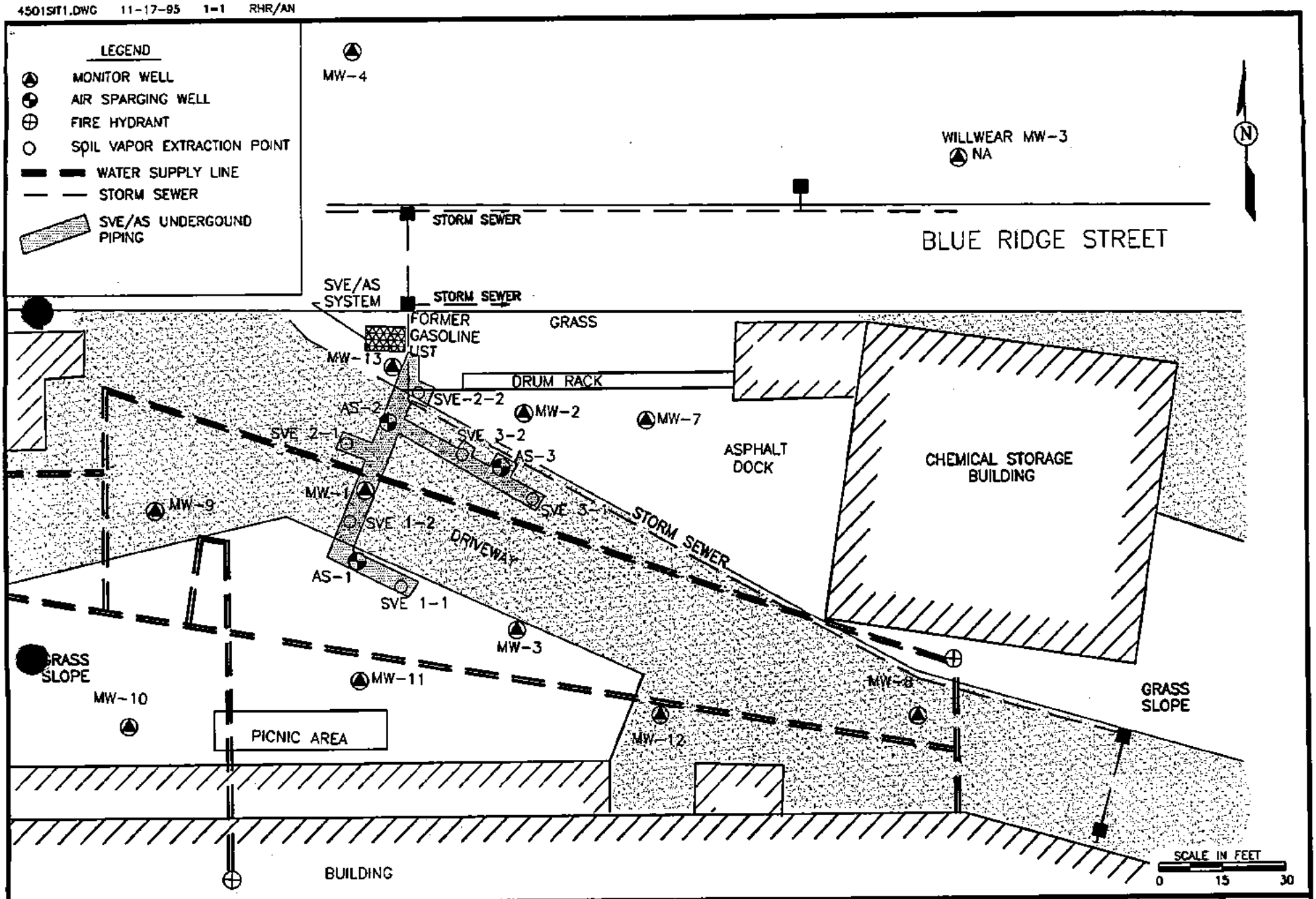
Signature of Contractor or Agent Jay C. Long Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-9

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: monitor DATE: 8-28-98

6. TOTAL DEPTH: 15 DIAMETER: 2"

7. CASING REMOVED:

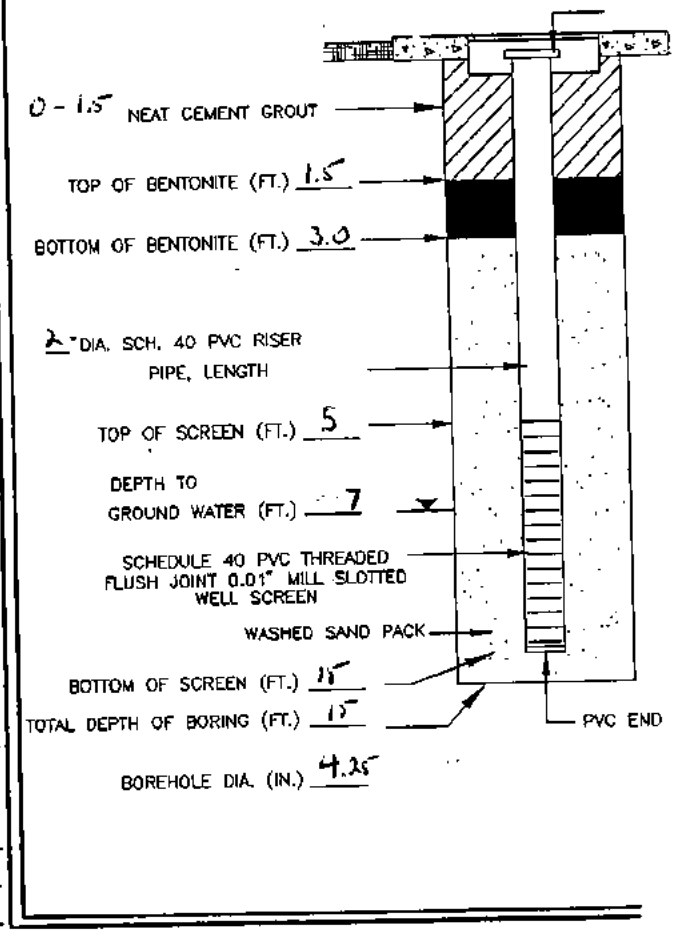
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

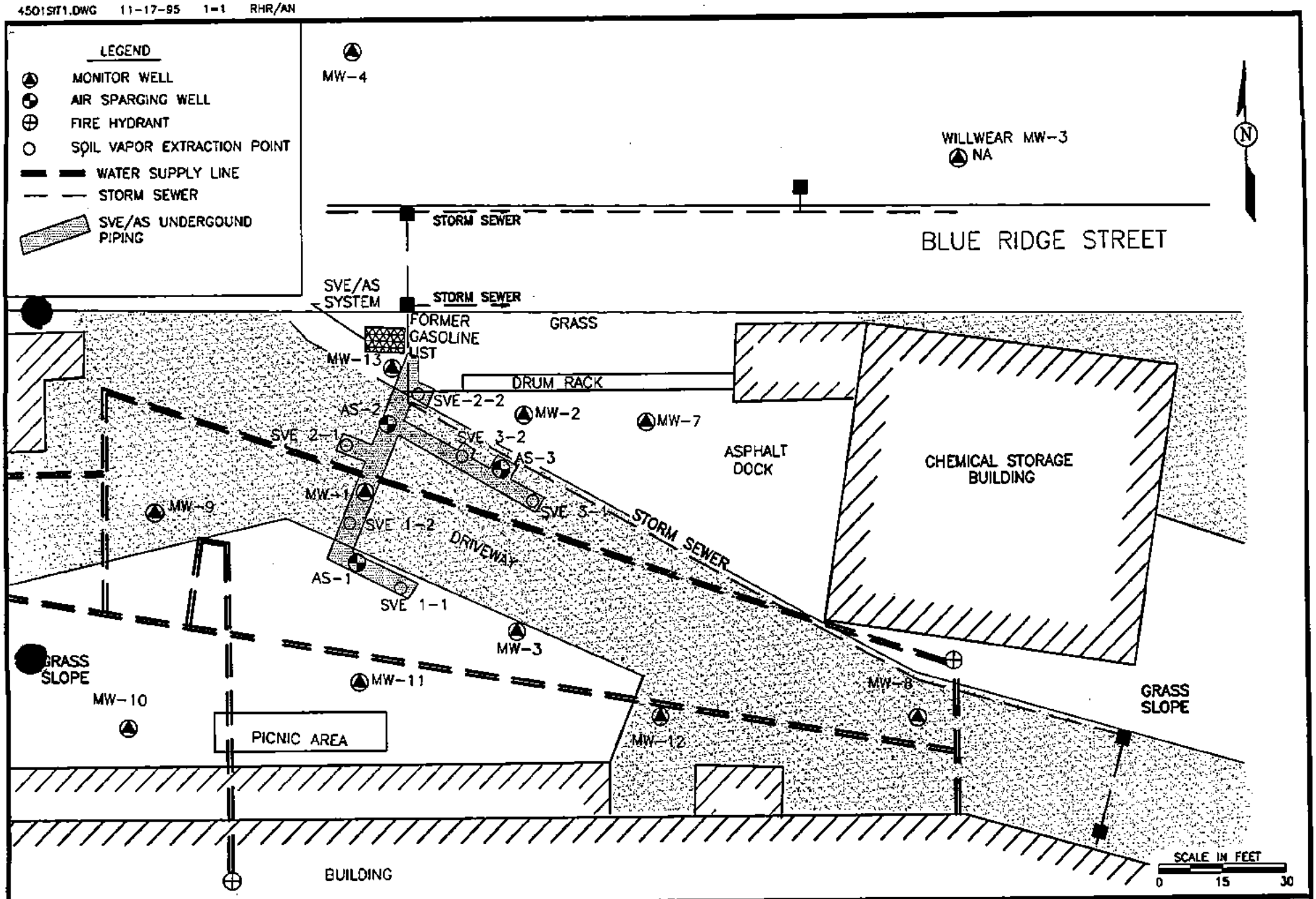
Signature of Contractor or Agent [signature] Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501ST1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-10

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 7 DIAMETER: 2"

7. CASING REMOVED:

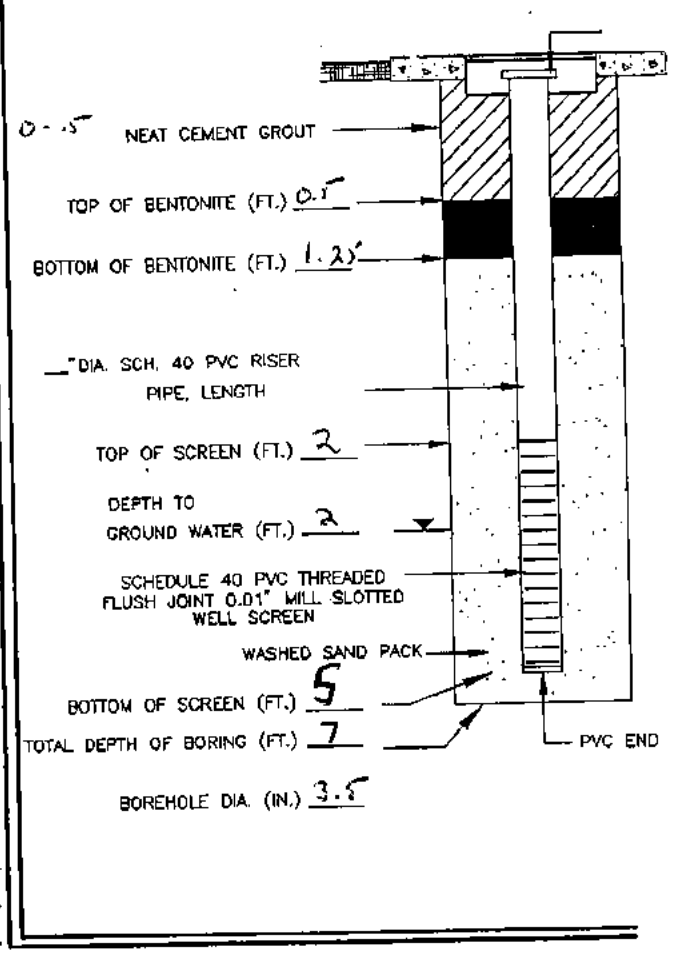
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.5	bags of cement	-
gals. of water	.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

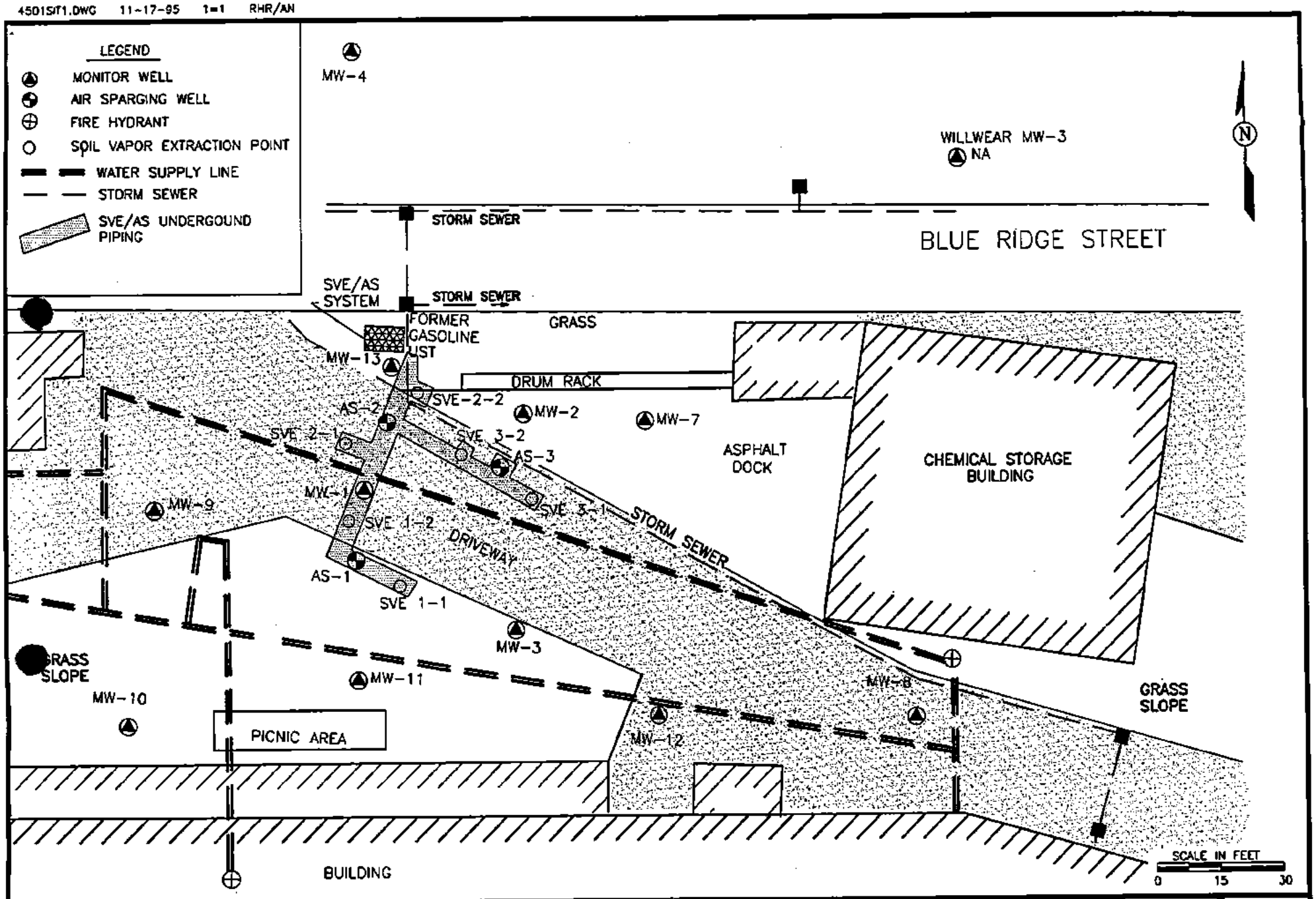
Signature of Contractor or Agent [signature] Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-11

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitors DATE: 8-28-98

6. TOTAL DEPTH: 2.5 DIAMETER: 2"

7. CASING REMOVED:

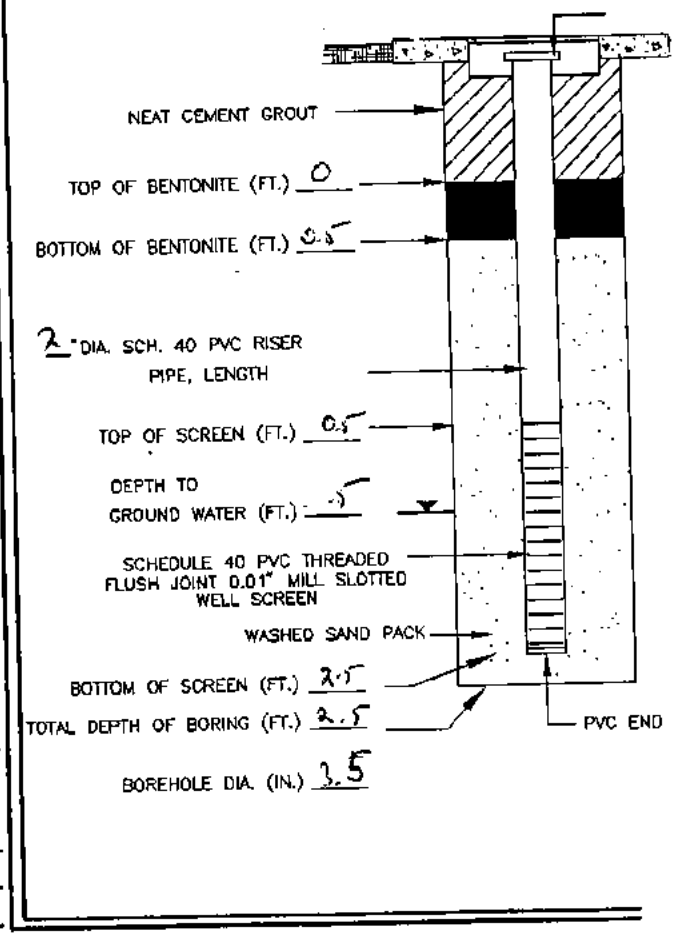
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.25	bags of cement	-
gals. of water	.10	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

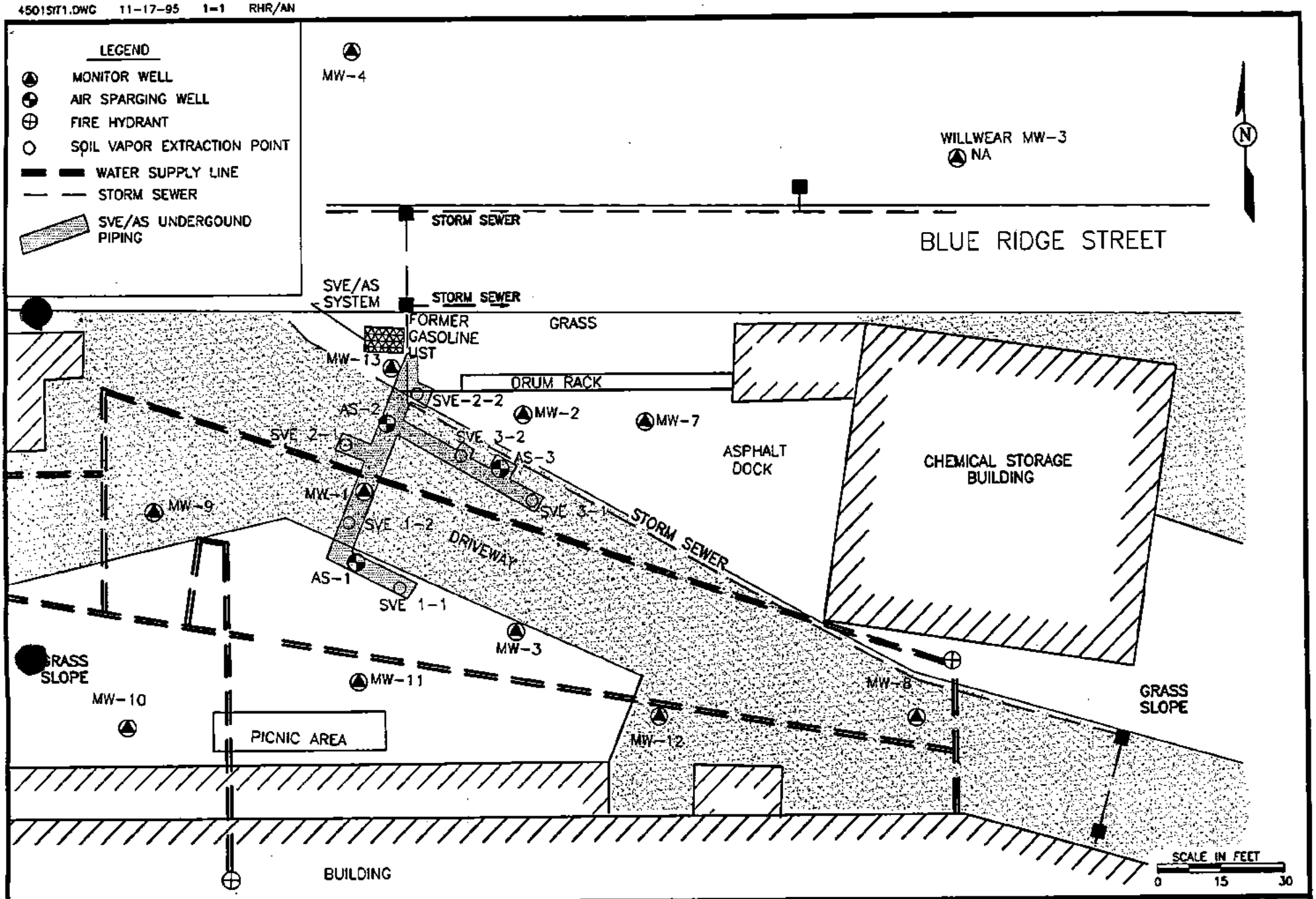
Signature of Contractor or Agent Jay C. Lamm Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-12

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: MARION County McDowell
(Road, Community, Subdivision, Lot No.)
3508.F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 5 DIAMETER: 2"

7. CASING REMOVED:

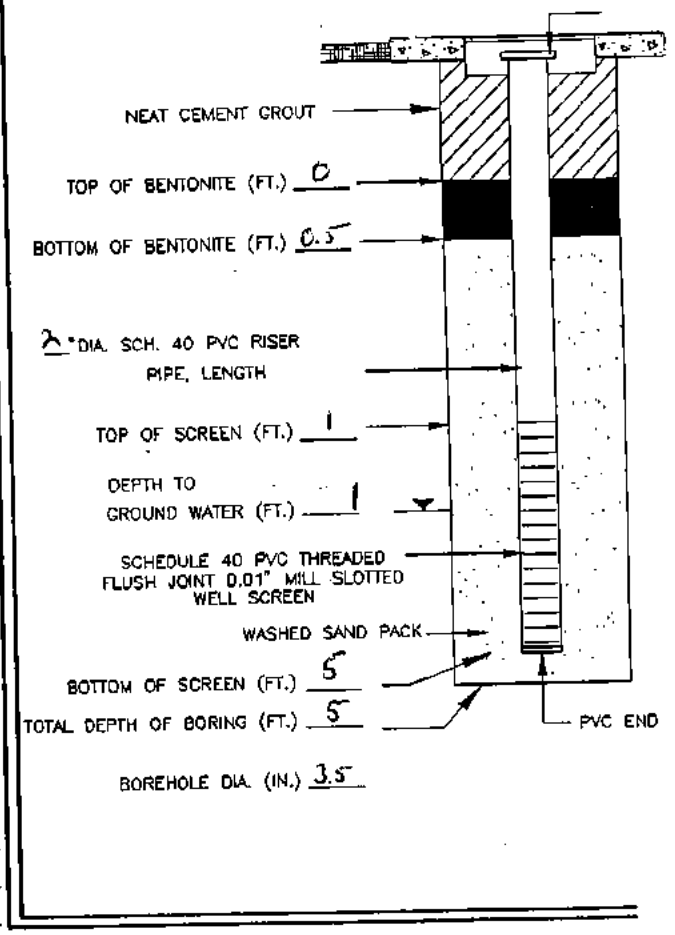
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	.5	bags of cement	-
gals. of water	.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Pressure Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

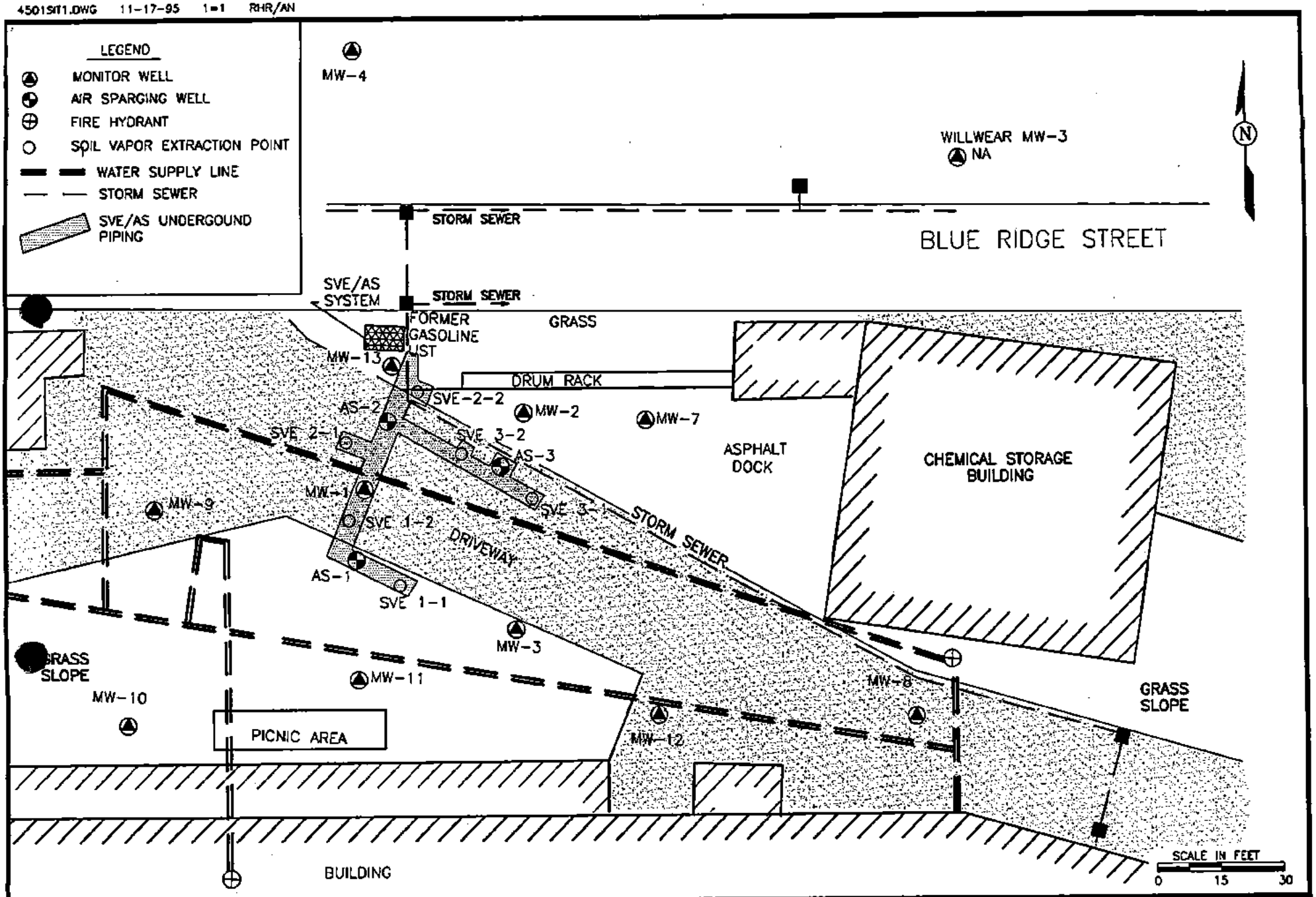
Signature of Contractor or Agent Joyce Young Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

MW-13

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 12 DIAMETER: 2"

7. CASING REMOVED:

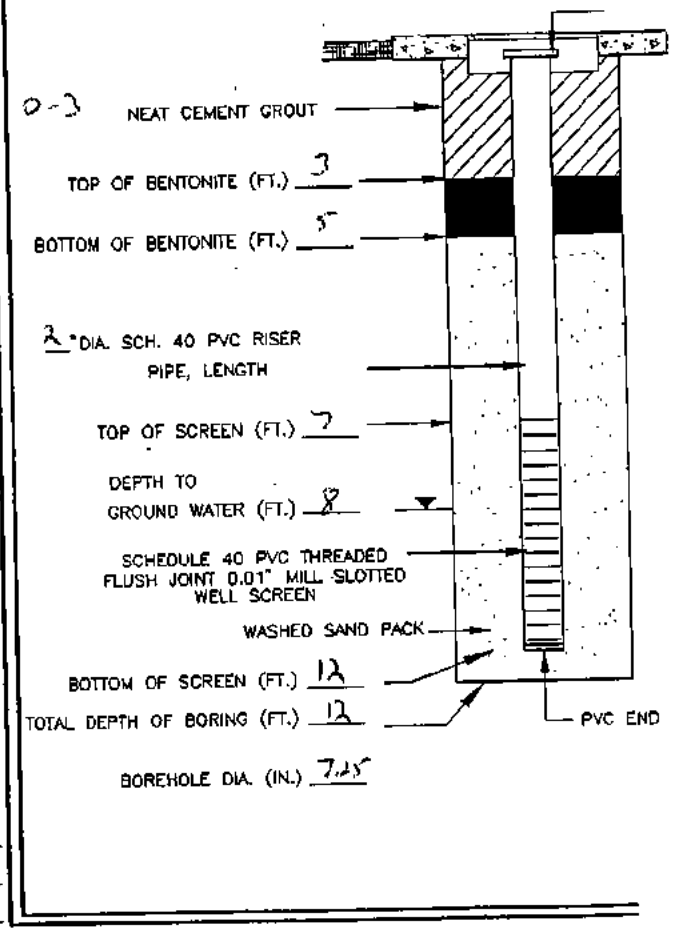
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	1	bags of cement	-
gals. of water	.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland cement was tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

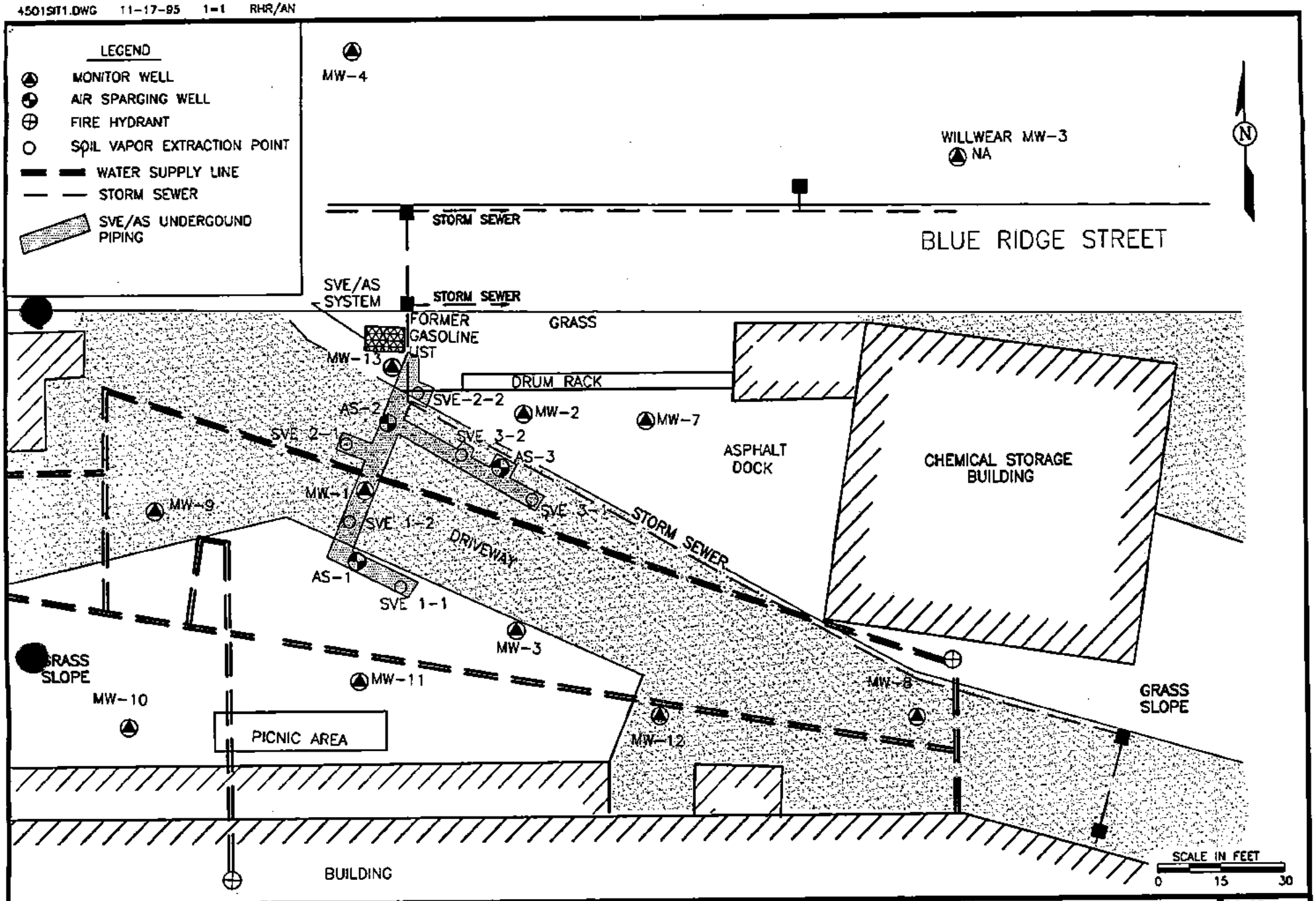
Signature of Contractor or Agent Jay Lowry Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

VMW-1

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.) 35082-F1-TF-024 Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1249 Morganton NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Monitor DATE: 8-28-98

6. TOTAL DEPTH: 39.5 DIAMETER: 2"

7. CASING REMOVED:

feet	diameter
N/A	N/A

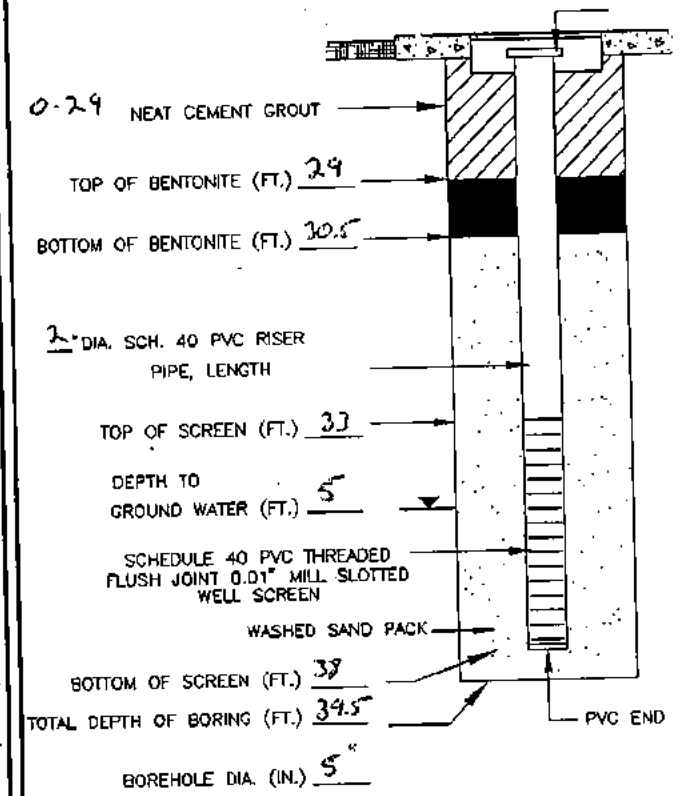
8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Pumped Grouted From the Bottom of the well to the top

CASED well with 6" casing to 32'
8" Borehole for casing



I do hereby certify that this well abandonment record is true and exact.

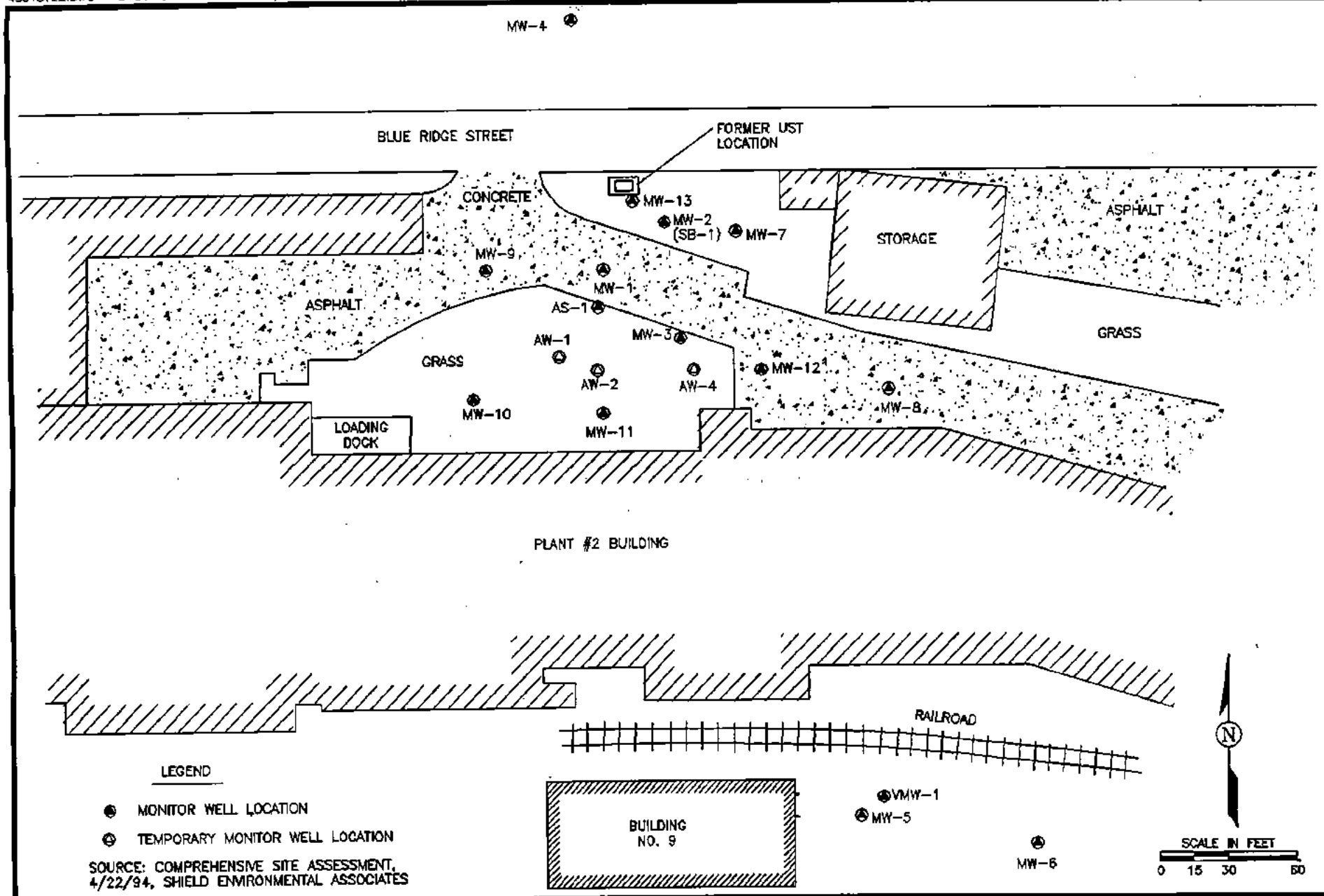
Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501STE2.DWG 8-31-94 1=1 RHR/JP



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE FURNISHING, INC.
PLANT #2
MARION, NORTH CAROLINA

FIGURE
2

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

AS-1

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: AIR SPARGE DATE: 8-28-98

6. TOTAL DEPTH: 24 DIAMETER: 2"

7. CASING REMOVED:

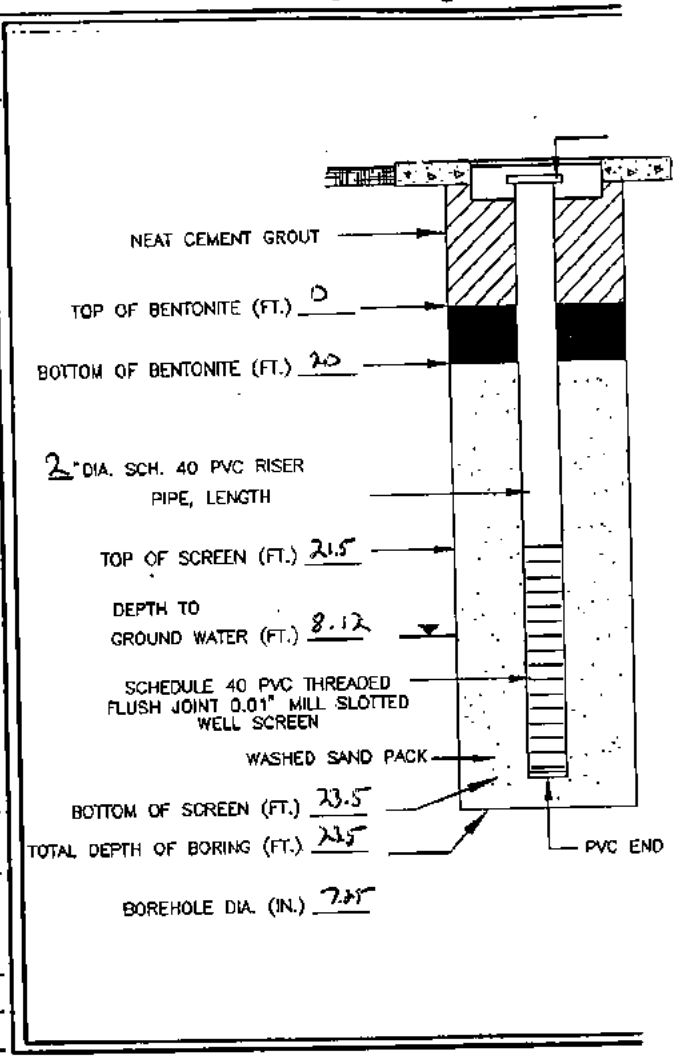
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2	bags of cement	
gals. of water	1	yds. of sand	
		gals. of water	

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



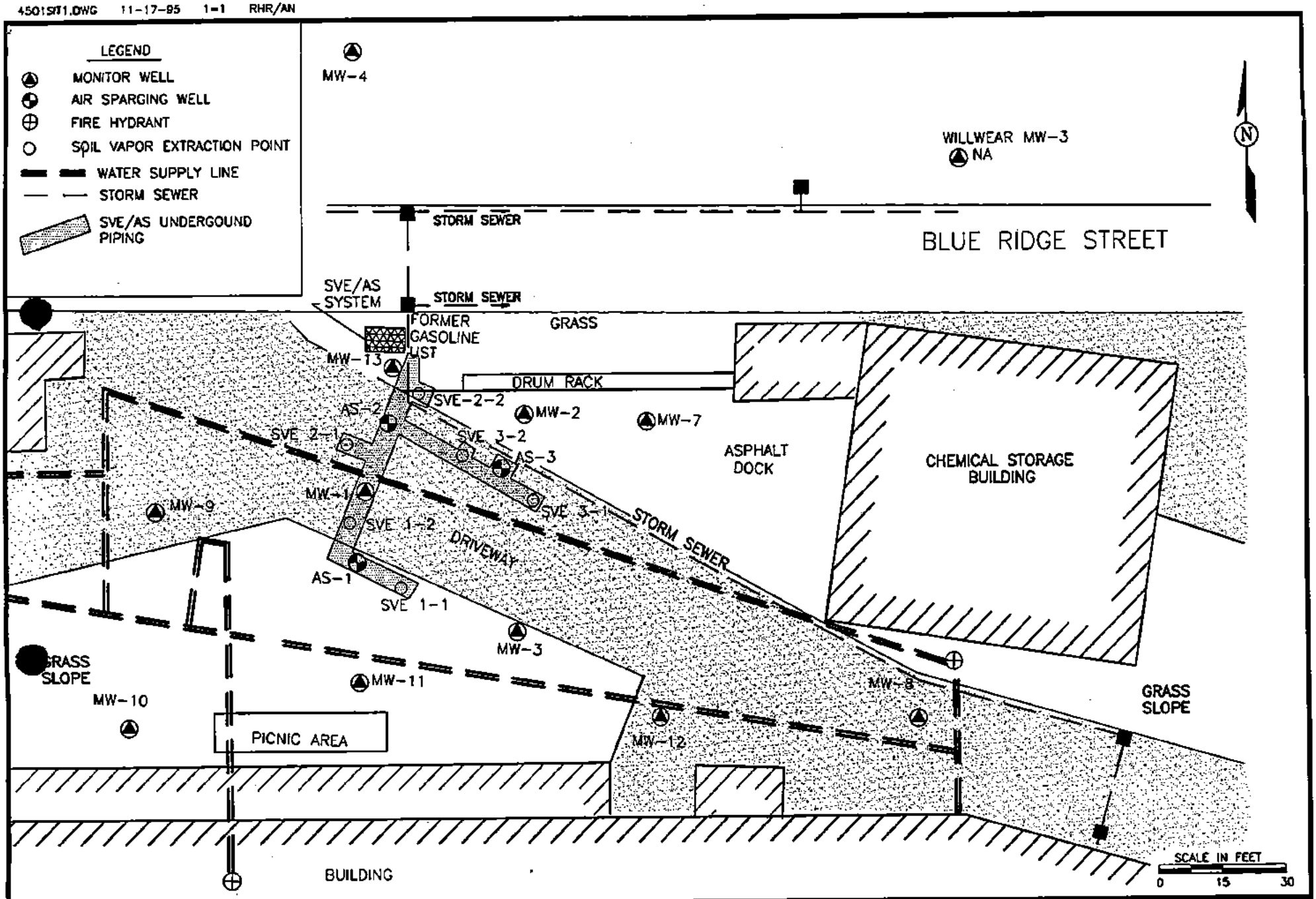
I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent Jay C Long Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

AS-2

WELL ABANDONMENT RECORD

CONTRACTOR McLain Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant 42

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Air Sparge DATE: 8-28-98

6. TOTAL DEPTH: 30 DIAMETER: 2"

7. CASING REMOVED:

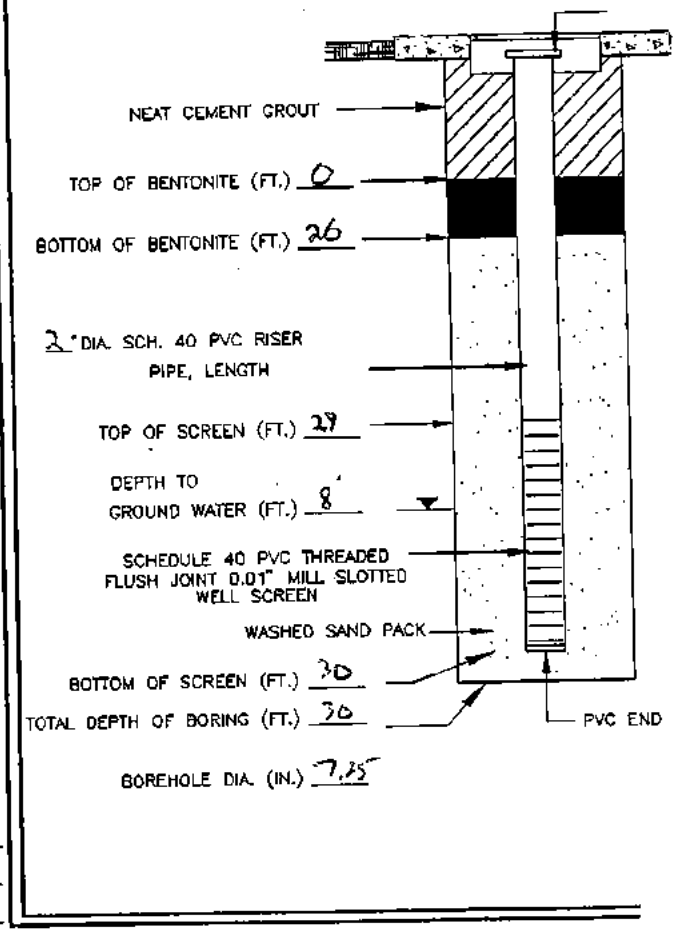
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.75	bags of cement	-
gals. of water	1.25	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

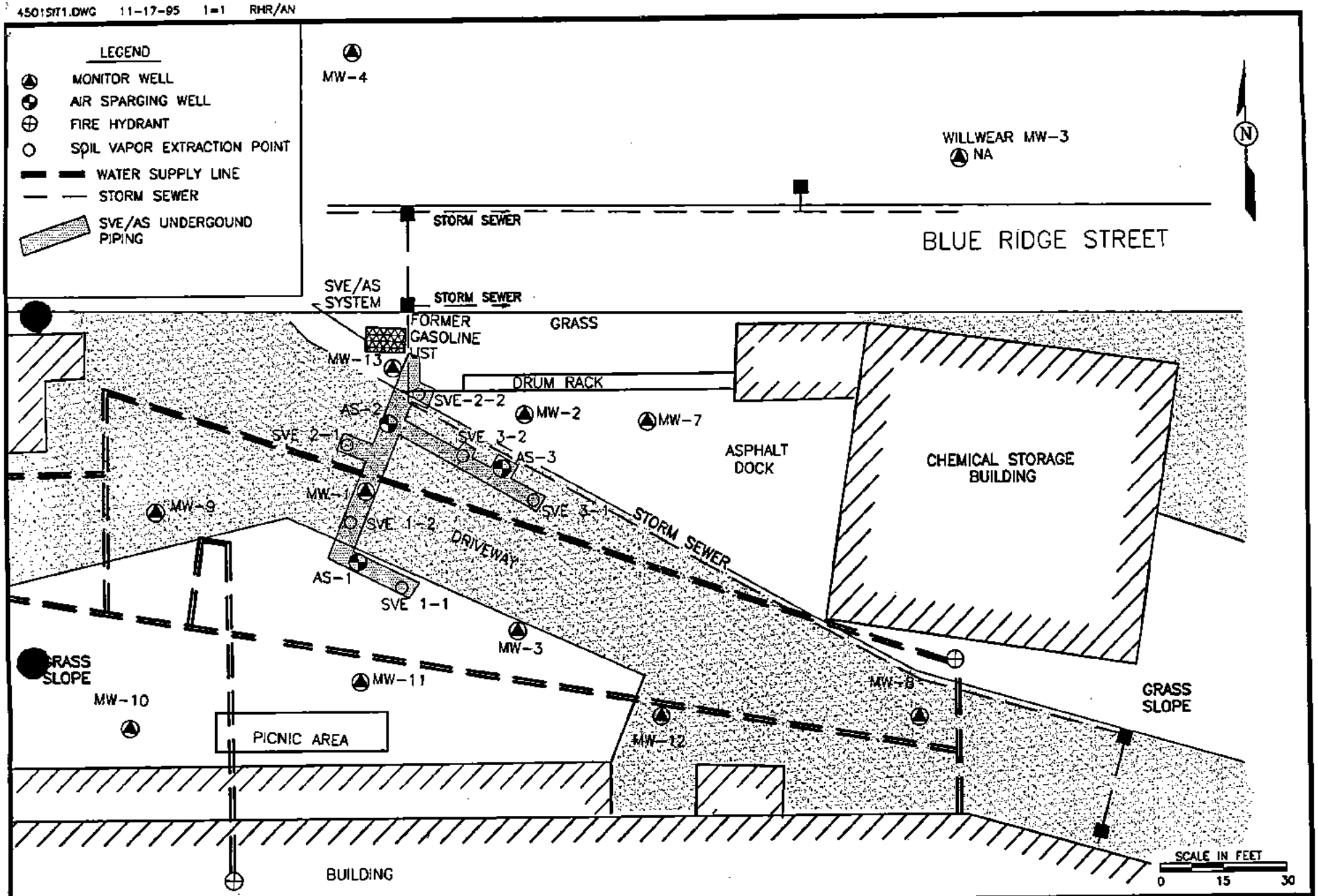
Signature of Contractor or Agent Jay Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 29535 - Raleigh, N.C. 27626-0535

AS-3

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Air Sparge DATE: 8-28-98

6. TOTAL DEPTH: 30 DIAMETER: 2"

7. CASING REMOVED:

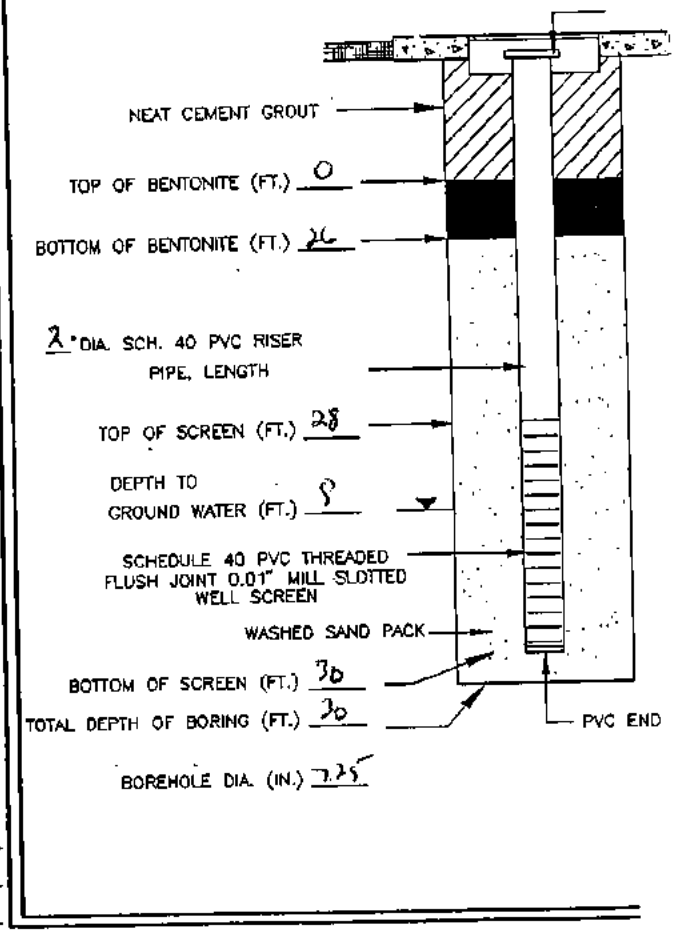
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.75	bags of cement	-
gals. of water	1.25	yds. of sand	
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

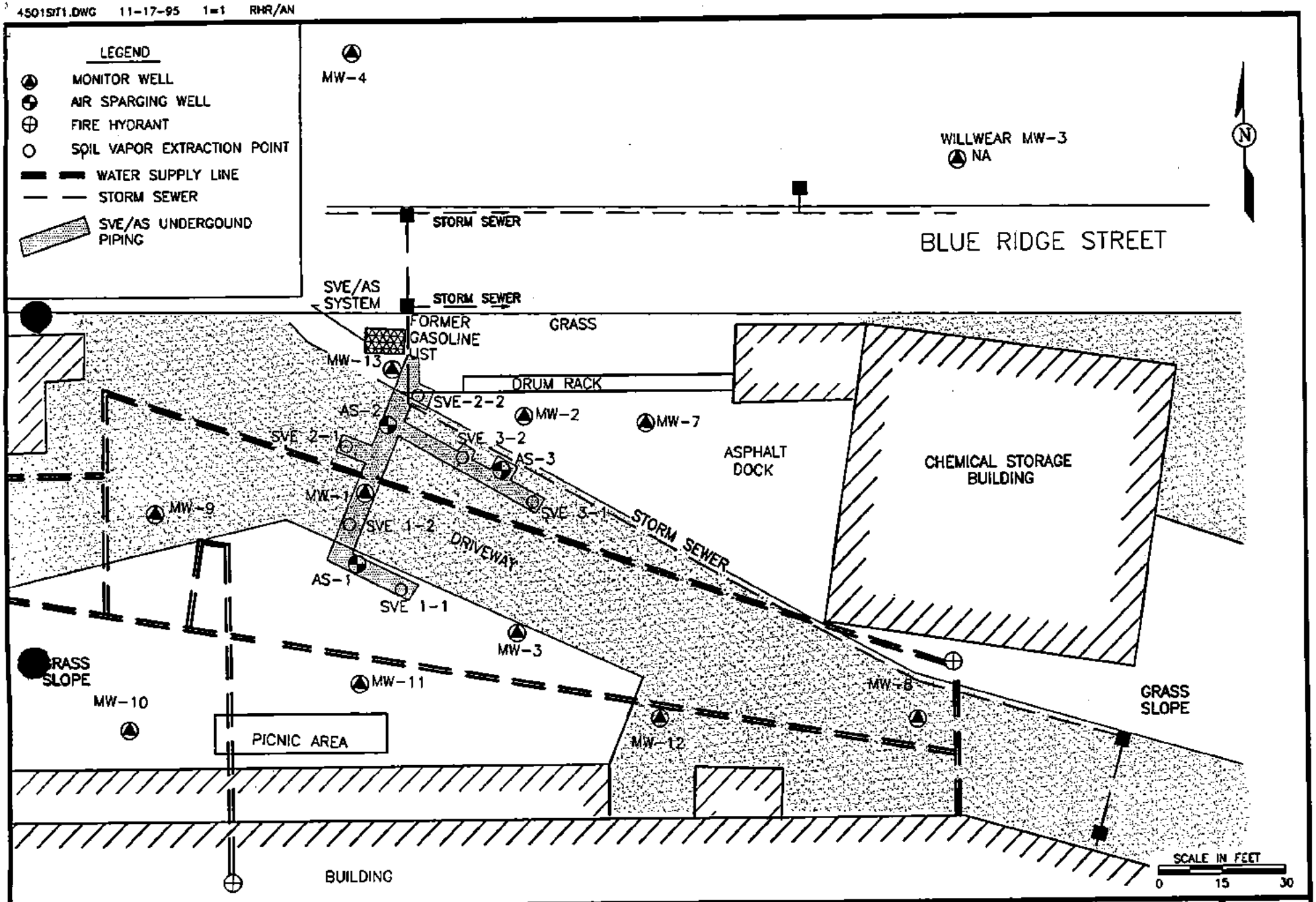
Signature of Contractor or Agent Jay Sanger Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

SVE-1-1

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
35082-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O. Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: Soil vapor Extraction DATE: 8-28-98

6. TOTAL DEPTH: 10 DIAMETER: 4"

7. CASING REMOVED:

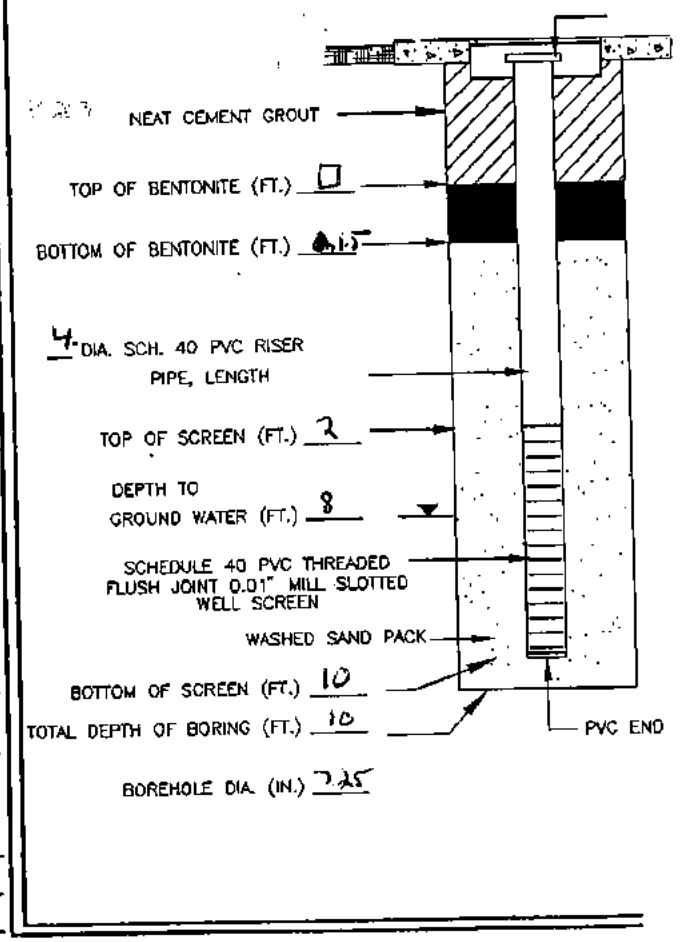
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

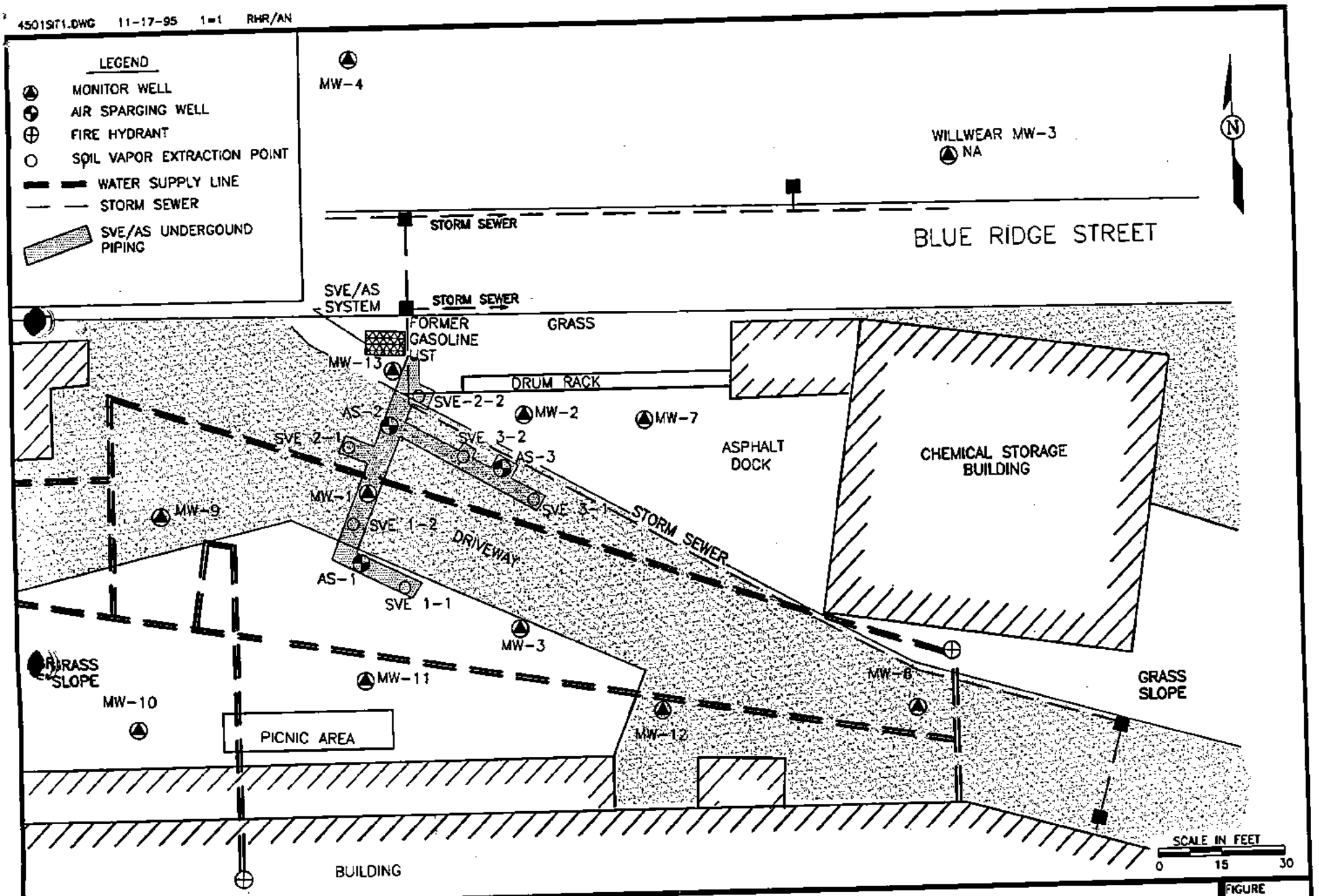
Signature of Contractor or Agent Jay C Long Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State High way road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

4501SIT1.DWG 11-17-95 1=1 RHR/AN



ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

SVE-2-2

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope) hilltop, valley, flat

5. USE OF WELL: SVE DATE: 8-28-98

6. TOTAL DEPTH: 10 DIAMETER: 4"

7. CASING REMOVED:

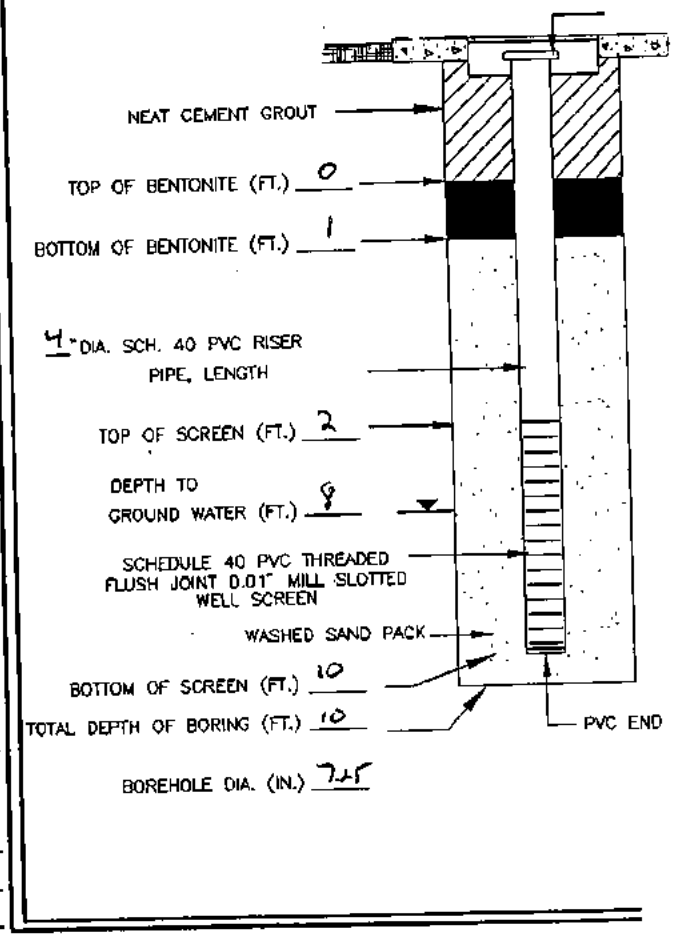
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.25	yds. of sand	-
		gals. of water	

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



I do hereby certify that this well abandonment record is true and exact.

Signature of Contractor or Agent Jay C Lamy Date 8-31-98

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Environmental Management, one copy to the Driller, and one copy to the owner.

GW-30 Revised 3/8/90

ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

FIGURE
1

North Carolina
Department of Environment, Health, & Natural Resources
Division of Environmental Management
Groundwater Section
P.O. Box 27535 - Raleigh, N.C. 27626-0535

SVE-3-2

WELL ABANDONMENT RECORD

CONTRACTOR McCall Brothers Drilling Services REG. NO. #3

1. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: Marion County McDowell
(Road, Community, Subdivision, Lot No.)
3508.2-F1-TF-024
Quadrangle No.

2. OWNER: Drexel Heritage Furnishings Plant #2

3. ADDRESS: P.O.Box 1299 Morganton, NC 28655

4. TOPOGRAPHY : draw, (slope), hilltop, valley, flat

5. USE OF WELL: SVE DATE: 8-28-98

6. TOTAL DEPTH: 10 DIAMETER: 4"

7. CASING REMOVED:

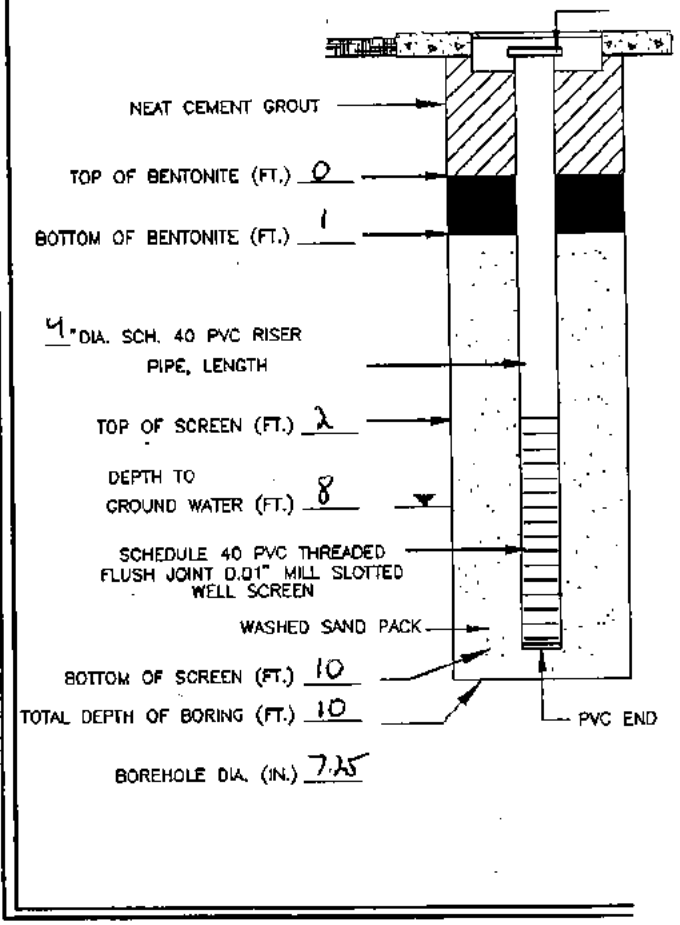
feet	diameter
N/A	N/A

8. SEALING MATERIAL:

Neat cement		Sand cement	
bags of cement	2.5	bags of cement	-
gals. of water	1.5	yds. of sand	-
		gals. of water	-

Other
Type material N/A
Amount N/A

9. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.
Using A Grout Pump Portland Cement was Tremie Grouted From the Bottom of the well to the top



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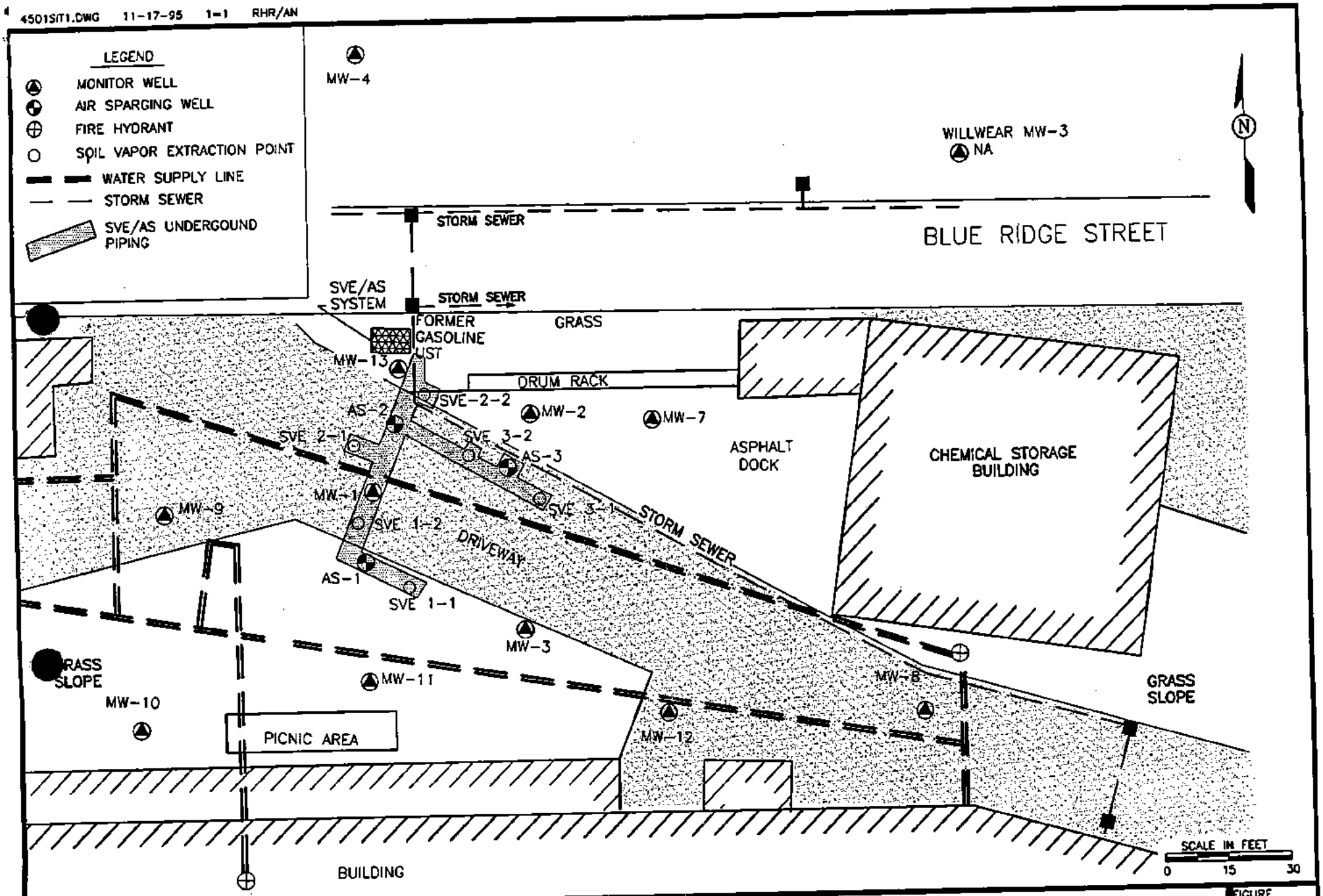
Signature of Contractor or Agent Jay C Lamm Date 8-31-98

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GW-30 Revised 3/8/90

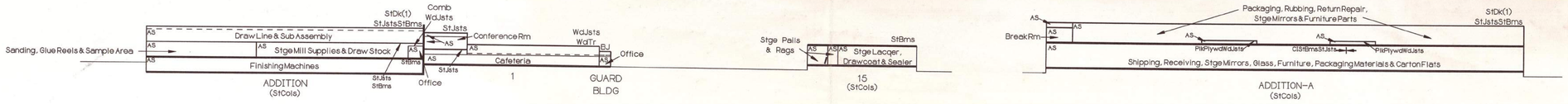
4501SIT1.DWG 11-17-95 1=1 RHR/AN

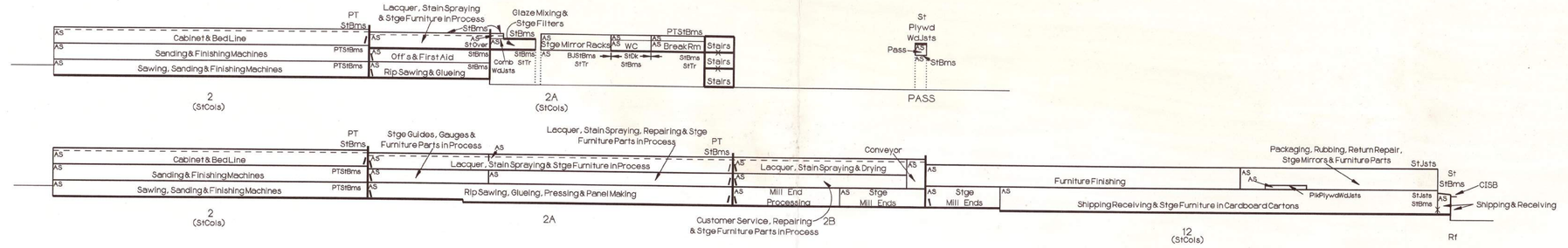


ERM-Southeast, Inc.
CHARLOTTE, NORTH CAROLINA
ERM

SITE PLAN
DREXEL HERITAGE PLANT #2
MARION, NORTH CAROLINA

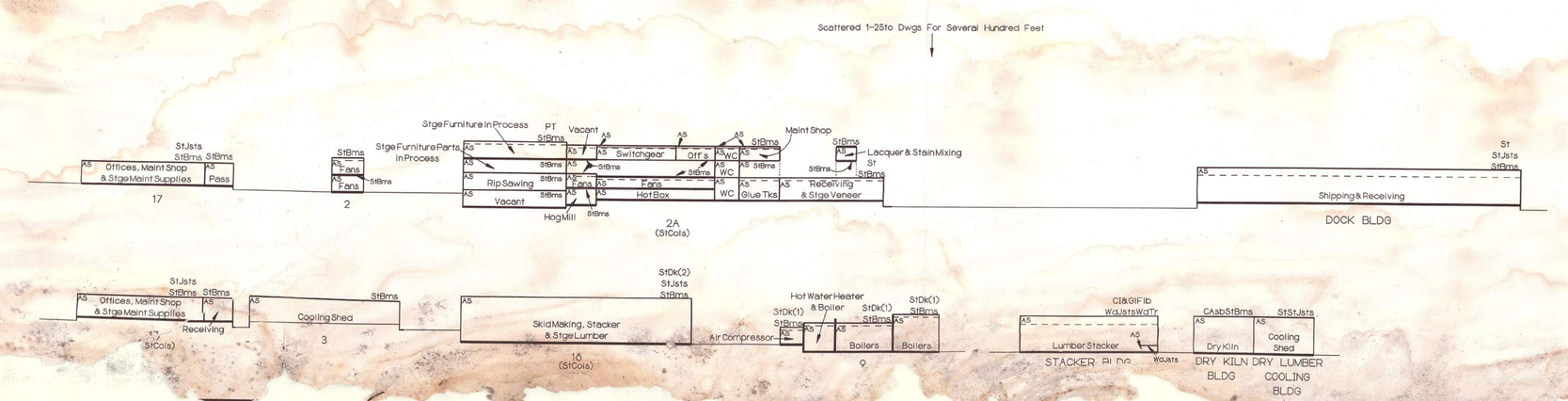
FIGURE
1





Scattered 1-2Sto Dwgs For Several Hundred Feet





LEGEND

- For beams on wood joist construction, or any material which is supported by wood joists.
- For plank on timber, plank on steel construction or any construction supported by wood timbers.
- For reinforced concrete, brick arch or similar constructions with no exposed steel supports.
- For any non-combustible construction which is supported by exposed steel supports (steel joists, steel beams or steel truss). For asphalt coated metal (AXM) supported by wood beams or exposed steel supports; aluminum or steel deck (class II) supported by exposed steel supports; mylar or plastic air supported structures, or in special cases when there are two or more different types of roof and floor construction in a multi-storied building.

- Dry or frost proof hydrant with fire department pumper connection (number of horns indicate number of hose outlets).
- Wall hydrant.
- 2½in HC's — Hose connections.
- Fire pump.
- FD — Fire department pumper connection.
- Automatic sprinkler point of distribution.
- Point of distribution of open sprinklers.
- Deluge valve, rate of rise or preaction type valves.
- Dry pipe valve with quick opening device.
- Alarm check valve.
- Flow alarm.
- Check valve (Detector check or back flow preventor when indicated).
- Indicator post gate, post indicator valve assembly or indicating butterfly valve.
- Gate valve, non-indicating stem or relief valve.
- Outside screw and yoke valve (OS&Y).
- Fire doors complete all floors unless indicated by number. Sub-standard doors shown with a light line.
- Elevators or stairs enclosed by fire walls with fire doors.
- Elevators or stairs complete in all floors with proof enclosures or hatches.

All fabricated ceilings are non-combustible on steel frame unless otherwise noted.

SPRINKLER SYSTEM DATA

RISER LOCATION	Type	Area (ft²)	Temp (°F)	Grid (ft.)	HYDRAULICALLY DESIGNED SYSTEM DATA: DENSITY (gpm/ft²/min)	Design Area (ft²) or Remote Area	DEMAND FLOW Flow (gpm)	DEMAND FLOW Press. (psi)
No 16					0.48	4500	2103	36
No 2A					0.30	4000	1545	45
No 2B					0.30	4000	1250	50
DRY LUMBER STOR	Wet	125	286	17/32	0.24	2000	530	65
					OH,KILN-RACKS,HYD,LD,ESFR			

REVISIONS

DR	CH	DATE	CHANGES MADE
LS		Sep-21-00	For F-Rg Insp of K.L. Drum, Sep-18-00
PFN		6-14-99	For F-Rg Insp of K.L. Drum, 6-8-99
JAC		8-25-98	For F-Sp Insp of D.L. Kiser 8-19-98
Roper		7-28-97	For F-Rg Insp of D.L. Kiser 7-9-97
MET		6-18-96	For F-Spec Insp of C.W. Edson 6-5-96

FURNISHINGS INTERNATIONAL, INC., et al.

"DREXEL HERITAGE-PLANT NO. 2"

Marion, N.C.

Surveyed by D.W. Uhlman
February 14, 1995

Scale: 1in = 50ft
By D.W. Uhlman

FACTORY MUTUAL INSURANCE COMPANY
Engineering Plan Services
500 RIVER RIDGE DRIVE, NORWOOD, MASS. 02062

INDEX 81802.70 | 1/1

INCHES BY 1/16

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

DEHNR

E
Drexel Heritage Plant #2
NCD 097368294

36

August 24, 1994

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NOTICE OF VIOLATION
Docket #94-324

Mr. Bud Bland
Drexel Heritage Plant #2
361 Blue Ridge Street
Marion, North Carolina 28752

NCD 097 368 294

Dear Mr. Bland:

On December 18, 1980, the State of North Carolina, Hazardous Waste Section (State) was authorized to operate the State RCRA hazardous waste program under the Solid Waste Management Act, (Act) N.C.G.S. 130A, Article 9 and rules promulgated thereto at 15A NCAC 13A (Rules) in lieu of the federal RCRA program. Drexel Heritage Plant #2, Marion, North Carolina, is subject to the requirements of 40 CFR 262, codified at 15A NCAC 13A .0007, and 40 CFR 279, codified at 15A NCAC 13A 0018.

On August 11, 1994, Ms. Roberta Pursell and Ms. Spring Allen, Waste Management Specialists, with this office investigated the storage and disposal of undetermined waste and used oils at Drexel Heritage Plant #2 in Marion, North Carolina. Ms. Pursell and Ms. Allen observed 1) an area with drums of waste unknown chemicals - some drums open, some in poor condition; 2) an area with drums of used oil with releases on storage pad, surrounding ground and a storm drain and ; 3) an area where drum(s) of waste glue were disposed by being burned.

A. 40 CFR 261.1(a), codified at 15A NCAC 13A .0006, states that this part identifies those solid wastes which are subject to regulation as hazardous wastes under Parts 262 through 275 and Parts 270, 271, and 124 of this Chapter and which are subject to the notification requirements of Section 3010 of RCRA.

B. 40 CFR 261.2(b), codified at 15A NCAC 13A .0006, states that materials are solid waste if they are abandoned by being [1] disposed of; or [2] burned or incinerated; or [3] accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.

C. 40 CFR 261.3(a), codified at 15A NCAC 13A .0006, states that a solid waste, as defined in Section 261.2 is a hazardous waste if:

1. It is not excluded from regulation as a hazardous waste under Section 261.4(b); and

2. It meets any of the following criteria:

i. It exhibits the characteristics of hazardous waste identified in Subpart C.

ii. It is listed in Subpart D and has not been excluded from the lists in Subpart D under Sections 260.20, and 260.22 of this chapter.

iii. It is a mixture of solid waste and hazardous waste that is listed in Subpart D solely because it exhibits one or more of the characteristics of hazardous waste identified in Subpart C, unless the resultant mixture no longer exhibits any characteristic of hazardous waste identified in Subpart C.

iv. It is a mixture of solid waste and one or more hazardous wastes listed in Subpart D and has not been excluded from this paragraph under Sections 260.20 and 260.22 of this chapter.

D. GS 130A-290(6), defines "Disposal" as the discharge, deposit, injection, dumping, spilling, leaking or placing of any solid waste into or on any land or water so that the solid waste or any constituent part of the solid waste may enter the environment or be emitted into the air or discharged into any waters, including groundwater.

E. GS 130A-290(41), defines "Storage" as the containment of solid waste, either on a temporary basis or for a period of years, in a manner which does not constitute disposal.

F. It is the determination of the Section that the disposal/storage of the used oil and drums of waste chemicals and burning of waste glue at the Drexel Heritage Plant #2 in Marion, North Carolina constitute storage and disposal of hazardous waste subject to all applicable requirements of 40 CFR 262 through 265, 270 and 279. Specifically:

1. 40 CFR 262.11, codified at 15A NCAC 13A .0007, states that a person who generates a solid waste, as defined in 40 CFR 261.2, must determine if that waste is a hazardous waste using the following method:

   a. He should first determine if the waste is excluded from regulation under 40 CFR 261.4 and 261.5.

   b. He must then determine if the waste is listed as a hazardous waste in Subpart D of 40 CFR Part 261.

   c. If the waste is not listed as a hazardous waste in Subpart D of 40 CFR Part 261, he must determine whether the waste is identified in Subpart C of 40 CFR Part 261 by either:

      i. Testing the waste according to the methods set forth in Subpart C of 40 CFR Part 261, or according to an equivalent method approved by the Administrator under 40 CFR 260.21; or

      ii. Applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used.

Drexel Heritage Plant #2 is in violation of 40 CFR 262.11, codified at 15A NCAC 13A .0007, in that it generated a solid waste, as defined in 40 CFR 261.2, and did not determine if that waste is a hazardous waste.

2. 40 CFR 264.11, codified at 15A NCAC 13A .0009, states that every facility owner or operator must apply to EPA for an EPA identification number in accordance with the EPA notification procedures (45 FR 12746).

Drexel Heritage Plant #2 may be in violation of 40 CFR 264.11, codified at 15A NCAC 13A .0009, in that hazardous waste was stored and/or disposed of without the site having received an EPA identification number from the State.

3. 15A NCAC 13A .0009(a), states that any person who treats, stores, or disposes of hazardous waste shall comply with the requirements set forth in this section. The treatment, storage or disposal of hazardous waste is prohibited except as provided in this section.

Drexel Heritage Plant #2 may be in violation of 15A NCAC 13A .0009(a), in that hazardous waste has been stored and/or disposed without complying with the requirements set forth in this section.

4. 40 CFR 279.22(d), codified at 15A NCAC 13A .0018, states that upon detection of a release of used oil to the environment, a generator must perform the following cleanup steps:

(1) Stop the release;
(2) Contain the released used oil;
(3) Cleanup and manage properly the released used oil and other materials; and
(4) If necessary to prevent future releases, repair or replace any leaking used oil storage containers or tanks prior to returning them to service.

Drexel Heritage Plant #2 is in violation of 40 CFR 279.22(d), codified at 15A NCAC 13A .0018, in that used oil was released to the ground and was not contained or remediated.

COMPLIANCE SCHEDULE

By the dates specified below, Drexel Heritage Plant #2, Marion, North Carolina shall comply with the following requirements:

1. Comply with 40 CFR 262.11, codified at 15A NCAC 13A .0007. An immediate determination and/or analysis of all unknown waste in containers, and that being discharged must be completed to ensure proper characterization and disposition.

By September 24, 1994, develop and submit to this office a comprehensive sampling and analysis report which will characterize soil contamination (inorganic and organic) at your site. This report must specify constituents analyzed, sampling procedures, sampling locations, and depths that will assess the horizontal and vertical extent of contamination.

Upon verification of contamination, Drexel Heritage Plant #2 must immediately provide for the remediation of the site including soil removal, storage and transportation to an off-site disposal facility and sampling to evaluate the adequacy of the cleanup. Drexel Heritage Plant #2 must complete the initial soil removal with post-excavation sampling results by October 24, 1994. Failure by Drexel Heritage Plant #2 to initiate an effective site remediation by these dates may subject the site to additional requirements including closure plans, financial assurance for closure and groundwater monitoring.

2. Comply with 40 CFR 264.11, codified at 15A NCAC 13A .0009. If activities other than that of a Large Quantity generator are conducted by Drexel Heritage Plant #2, a revised notice of Regulated Activities form (8700-12) must be submitted for this site. You may contact Mr. Jim Edwards with this office at (919) 733-2178 to make provisions for obtaining this form.

3. Comply with 15A NCAC 13A .0009(a). By November 24, 1994, Drexel Heritage Plant #2 shall no longer store or dispose hazardous waste, and all hazardous waste previously on site shall be shipped to a permitted hazardous waste treatment, storage or disposal facility.

   During the interim, pending shipment of the waste, 40 CFR 262.34(a), codified at 15A NCAC 13A .0007 states that:

   a. If the waste is placed in containers the generator must comply with Subpart I of 40 CFR Part 265 or if the waste is placed in tanks, the generator must comply with Subpart J of 40 CFR Part 265 except 265.193.

   b. The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container.

   c. While being accumulated on-site, each container and tank is labeled or marked clearly with the words, "Hazardous Waste"; and

   d. The generator complies with the requirements for owners or operators in Section 265.16.

4. Comply with 40 CFR 279.22(d), codified at 15A NCAC 13A .0018. Drexel Heritage Plant #2 shall include the used oil released as part of the characterization of the soil contamination in item 1 above. In addition, Drexel Heritage Plant #2 shall ensure that necessary steps are taken to prevent the release of used oil in the future.

If the requirements above are not met, pursuant to N.C.G.S. 130A-22(a) and 15A NCAC 13B .0701 - .0707, an administrative penalty of up to $25,000.00 per day may be assessed for violation of the hazardous waste law or regulations.

If you should have any questions concerning this matter, you may contact Ms. Roberta Pursell at (704) 251-6208.

Sincerely,

Jerome H. Rhodes

Jerome H. Rhodes, Chief
Hazardous Waste Section

JHR/jsp/drexel

cc: Roberta Pursell
Keith Masters
Nann Guthrie
Central Files

Region IV CM&E Form - Side A

EPA ID: WCD097[illegible]3297

DATA ENTRY PERSONNEL
Submitted by: [illegible] Date: ____
Entered by: ____ Date: ____

35

Facility Name: Dixie #2 City: Manor

EVALUATION DATA: New: __ Change: __ Delete: __ (—— : Required)

Agency: S Date: Mo 09 / Day 11 / Year 97 Type CES

Control Number Data Entry Personnel

Person: 063 BRANCH [illegible] REASON

Coverage Areas: (E: Evaluated NE: Not Evaluated NA: Not Applic. D: Del.)

Generators: GBF, GER, GGR E, GLB, GMR, GOR, GPT, GRR, GSC, GSQ

Transporters: TGR, THR, TOR, TRR, TWD

USED OIL: TUO, TFO, BUO, MUO, PUO, RUO

TSD's: DBF, DCH, DCL, DCP, DFR, DGS, DGW, DIN, DLB, DLF, DLT, DMC, DMR, DOR, DOT, DPB, DSI, DTR, DTT, DWB

COMPLIANCE SCHEDULE (TSD, GEN, TRANS.)
FEA ____ CAS ____

Evaluation Comments: (72) 1 : ____

2 : Immanent NOV drafted

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: | | Branch: | | | Seq. Number (Data Entry)

Actual / /

Reg. Type

Comm

enter as is CES

and violation found for GGR

#__ Ag Class:

Prio Seq. Number (Data Entry)

Actual / /

Reg. Type

Comm

#__ Ag Class:

Prio Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / Actual / /

Reg. Type: Reg. Description (30): ____

Comment (72): ____

Continue violation data if necessary -

DAT ENTRY PERSONNEL

Submitted by: _____ Date: _____

Entered by: _____ Date: _____

Region IV CM&E Form - Side B

EPA ID: NCD 097368294

Facility Name: Burial # 2 City: Marion

ENFORCEMENT DATA: New: __ Change: __ Delete: __ (——— : Required)

Agency: S Type: 7129 Date: Month 08 Day 17 Year 93 Number (Data Entry)

Period: 0163 Branch: 07 Comment (72): Amount NOV drafted

Penalty Data

Assessed: $ _____ Paid: $ _____ Date Paid: __/__/__

Settled: $ _____ $ _____ __/__/__

Enforcement Comments: 1: _____ (74)

2: _____

Cite violations for this enforcement action below -

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: _ Type: ___ Date (mdy) Determined: __/__/__ Class: _

Priority: _ Branch: __ Person: ___ Seq. Number (Data Entry) ____

Return to Compliance: -- Scheduled -- __/__/__ --- Actual --- __/__/__

Reg. Type: __ Reg. Description (30): _____

Comment (72): _____

#__ Agency: _ Type: ___ Date (mdy) Determined: __/__/__ Class: _

Priority: _ Branch: __ Person: ___ Seq. Number (Data Entry) ____

Return to Compliance: -- Scheduled -- __/__/__ --- Actual --- __/__/__

Reg. Type: __ Reg. Description (30): _____

Comment (72): _____

#__ Agency: _ Type: ___ Date (mdy) Determined: __/__/__ Class: _

Priority: _ Branch: __ Person: ___ Seq. Number (Data Entry) ____

Return to Compliance: -- Scheduled -- __/__/__ --- Actual --- __/__/__

Reg. Type: __ Reg. Description (30): _____

Comment (72): _____

Continue violation data if necessary -

COMPLAINT FORM

(P) = photos taken; (*) = violations noted

Inspector: Pursell / Allen Date in: 8-2-97
Site Name: Drexel Furniture # 2
Address: 962 Blue Ridge ST Manon 28752 County: McDowell
Phone: _____ RCRA Status/ID Number: Gen NCD 097 362 297
Owner: Corp
Owner Address _____
Owner phone: _____
Source of complaint (citizen, referal, etc. No Personal Names): Fire Marshall
Description of Complaint:
Burning Drums of glue

Investigation date: 8-11-97 Time: 2 hr
Persons present: Allen, Pursell, Burl Bland - P Manager
Jimmy Lowery - maintenance / safety ?
Investigation notes: #
See handwritten notes for details
* Three areas of concern 1) Drums of unknown chemicals (waste) in poor condition - no waste determination
#2) used oil on pad releasing into storm drain & on ground
3) area where drum of glue burned (see MODS)

Require waste determination on waste drum and sampling at used oil storage area and burn area.

~~Site Drawing:~~
See attached Handwritten notes.

~~Phone Contacts (date/time):~~
Imminent Hazard NOV Drafted

Referals: DEM: GND WATER; AIR; WATER EPA
SOLID WASTE HEALTH DEPT
EMERG. MANAG. SBI
OTHER _____

F-100-10

Material Safety Data Sheet

Franklin International

2020 Bruck Street Columbus, Ohio 43207 614/443-0241, 445-1411 (after hours)

HMIS Rating	
Health	1
Flammability	0
Reactivity	0

SECTION I—PRODUCT IDENTIFICATION

Product Name: Assembly 161
Product Number: 2238
Chemical Family Description: Polyvinyl acetate emulsion adhesive

SECTION II—HAZARDOUS INGREDIENTS INFORMATION

Hazardous Components	% by Weight	OSHA TWA	OSHA STEL[1]	ACGIH TLV	ACGIH STEL[1]	SARA Sec. 313
Vinyl acetate (CAS#108-05-4)	<0.30	10 ppm	20 ppm	10 ppm	20 ppm	Yes

[1] 15 minute exposure limit

SECTION III—PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point (F.°): 210
Vapor Density (air=1): 0.98
Solubility in Water: Dispersible
Appearance: White colored liquid
Odor: Mild
Typical Viscosity (cps.): 140
Specific Gravity (water=1): 1.08
Percent Volatile: 56.4
Evaporation Rate (water=1): 1
pH: 4.7

SECTION IV—FIRE & EXPLOSION HAZARD DATA

Flash Point (F.°): None
Flammable Limits: LEL=N/A, UEL=N/A
Extinguishing Media: Water if product has dried
Special Fire Fighting Procedures: Wear MESA NIOSH approved self-contained breathing apparatus
Unusual Fire & Explosion Hazards: None

SECTION V—REACTIVITY DATA

Stability: Stable. Conditions to Avoid: None
Incompatibility (materials to avoid): Strong acids and strong bases
Hazardous Polymerization: Will not occur. Conditions to Avoid: None
Hazardous Decomposition Products: Oxides of carbon and toxic monomer when burned

F-1000 70

SECTION VI—HEALTH HAZARD DATA

Threshold Limit Value: See front page (Section II).
Routes of Entry: Ingestion: No. Inhalation: Yes. Skin: No.
Health Hazards: **Ingestion:** Acute: Effects not determined. Chronic: Effects not determined.
Inhalation: Contains residual monomer (see front page Section II). When this product is used at room temperature, no incidence of adverse health effects resulting from inhalation of vapors has been reported to us. When this product is warmed, inhalation of vapors can cause irritation of the upper respiratory tract and eyes. Acute: Overexposure may cause irritation or dizziness. Chronic: Effects not determined.
Skin: Will not be absorbed through the skin. In rare cases may cause skin rash. Acute: Irritation. Chronic: Potential allergenic.
Carcinogenicity (monomer): IARC Monographs: No. NTP: No. OSHA Regulated: No.
Two year animal tests (inhalation) at 50, 200 and 600 ppm of vinyl acetate monomer have shown that some animals in the 600 ppm group developed tumors. There was no tumor response at the 50 and 200 ppm levels. There is no evidence of human carcinogenicity.
Signs and Symptoms of Exposure:
Ingestion: Not determined.
Inhalation: Dizziness, irritation.
Skin: Irritation.
Eye Contact: Irritation.
Medical Conditions Generally Aggravated by Exposure: Not determined.
Emergency First Aid Procedures: Consult physician in all cases.
Ingestion: Do not induce vomiting.
Inhalation: Remove patient to fresh air.
Eye Contact: Rinse with running water for 15 minutes.
Skin Contact: Wash with soap and water. If rash persists, contact physician.

SECTION VII—PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be Taken in Case Material is Released or Spilled: Cleanup with suitable absorbent and place in an approved container. If product has dried, scrape up and place in an approved container.
Waste Disposal Method: Disposal of contents and/or container should comply with applicable federal, state and local regulations.
Precautions for Handling and Storing: Store at temperature between 50°F. and 90°F.
Other Precautions: Keep from freezing.

SECTION VIII—SPECIAL PROTECTION INFORMATION

Respiratory Protection: Wear suitable approved respirator where exposure limits may be exceeded.
Ventilation: Local Exhaust: Sufficient to maintain OSHA TWA and STEL. Standard plant ventilation otherwise. Mechanical (general): Yes. Special: No. Other: No.
Protective Gloves: Where repeated or prolonged contact can occur the use of impervious gloves is recommended.
Eye Protection: Splashproof safety eye protection.
Other Protective Equipment: None.

SECTION IX—MISCELLANEOUS

Volatile Organic Compound (VOC): .080 lbs./gallon (calculated as VOC on solids).
Proposition 65: This product contains trace amounts of acrylamide and acetaldehyde which are known to the state of California to cause cancer.

This information is given without any warranty or representation. Franklin International does not assume any legal responsibility for the same. It is offered solely for your consideration, investigation and verification as to the accuracy or suitability of such information for application to purchaser's intended purposes and use.

8/11/94 Drexel #2 McDowell

Allen Turner

Bud Bland (P.M.) — 930AM.

940 Meet w/ Mr. Bland.

BB States that it was a drum of trash "Lady - I can't tell you what in that drum. It was supposed to be some epoxy adhesive.

been here 3 days I can get you an answer

Jimmy Lowery - Safety / Fire Brigade Training

Empty's out. < 1 gal - 2 gal

pump will not pull out / lumps

4 barrels - > 1/2 < 10 gal.

5 - 10 gal est

non Pox corr flam.

H2O will dilute

RP MSDS - Not here in George's office: PVA Poly Vinyl adhesive

George of Billie Plant Nurse will have MSDS's.

RP SA Regs for testing. We eng. 40 CFR when disposal of any of them. Waste determination. → in lieu of EPA

RP Permit to burn non chemx's by Forest SJs ... etc - but

Any Chemical must be disposed properly not burned

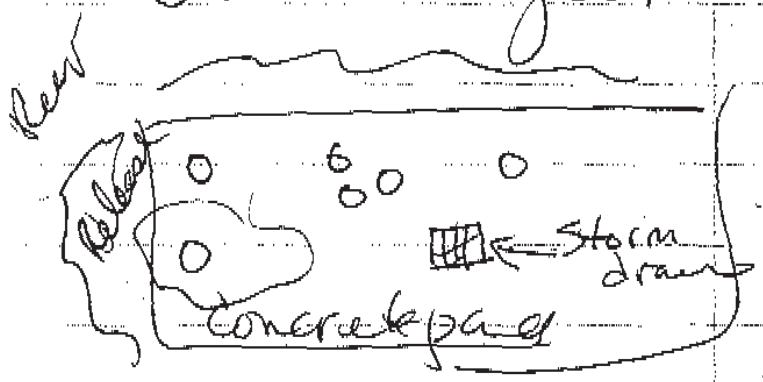
RP Analysis of samples taken by AQ - y/ General cleanout - y you have any other old mats - glues, epoxy glues whatever - first conduct waste determination! for proper disposal

RP requested copy of MSDS.

Older glues tend to be haz bec prior to tightening regs y you don't know - waste determ pour out / burn etc - prohibited.

BB I know it was poured I don't have a problem as long as RP walks out to area

Lumber yard Area 2



Hydraulic lift

Used oil containers open w/ rainwater released off Rear of pad

Anchorseal end sealer for logs & lumber

H-1 F-1 KO-PP C

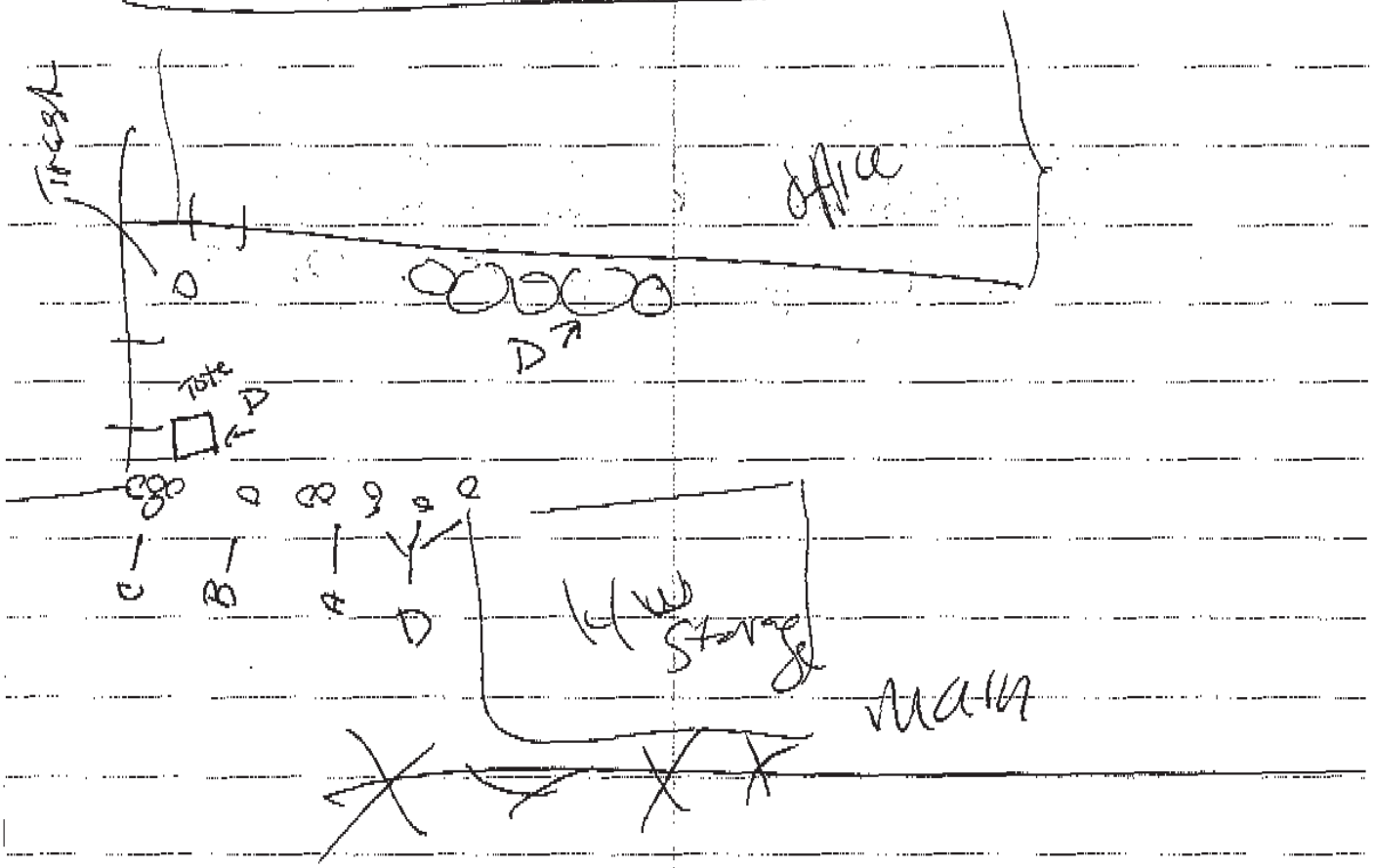
gl

Sludge Accumulated Drums

Storage Area
14 drms

2 Phase 5
gen area

A	1 bleach return to vendor
B	1 contractor oil - some release
C	4 Sol for MW's UST gasoline
D	5 blues +3 + Tote



RP

3 areas of concern

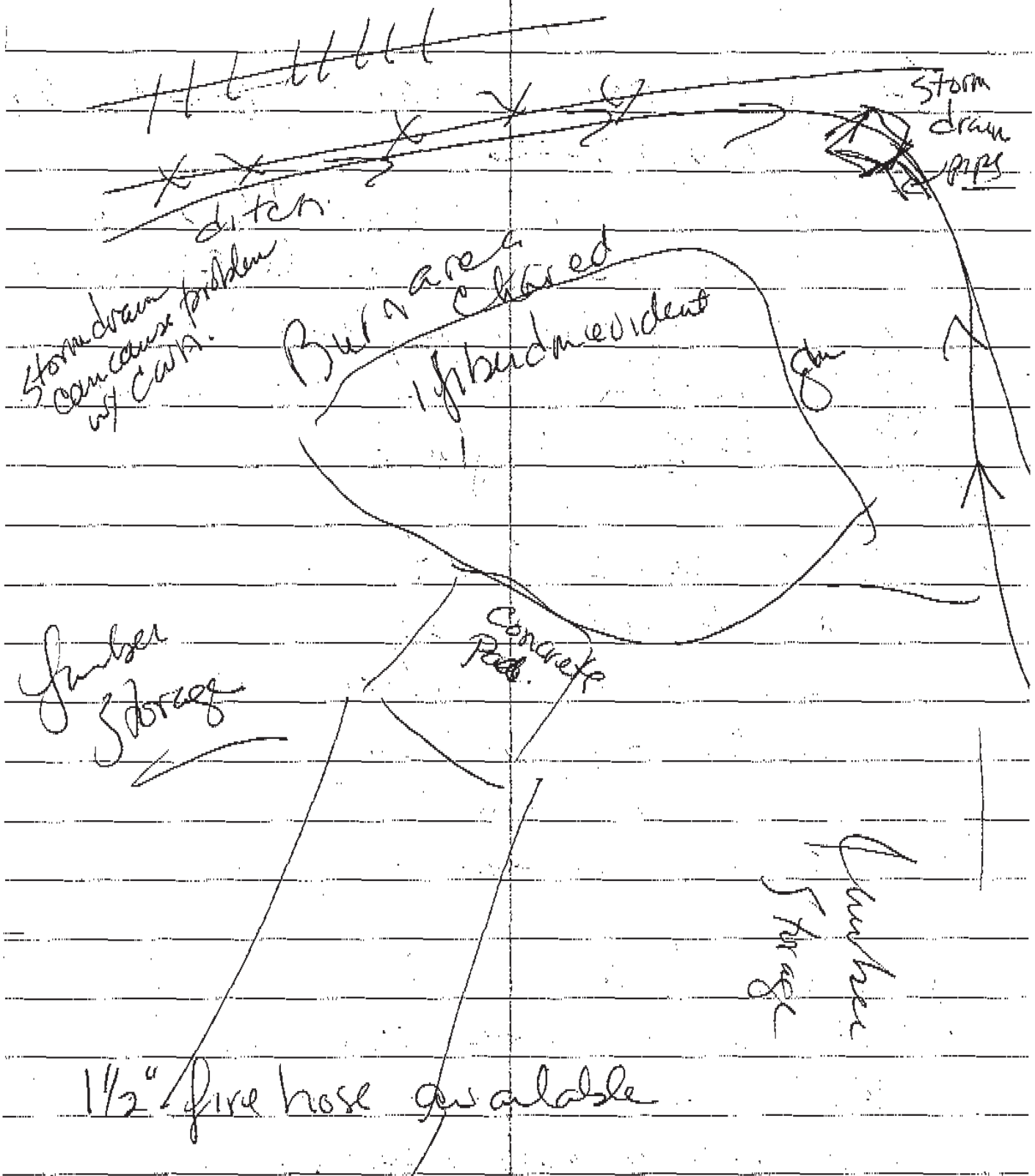
2 - Chronic release of used rods
response
Rem storage - Closed
point of releases - Today close area
Not forthcoming - known -
Sampling of soils in areas
of 3 maybe!

General

2-3 weeks - determine
waste determination →
appropriate handling/storage
Smoky - Y problem
Haz constituents?
- Horiz Vert extent of contam

designate 1 area for unit storage
make sure people are trained to
know this - easier tracking
inventory to make easier know
what is on site

Area 3 Burn Area



Rd

grp by clean dns for aque
for resh barrels
talk about eff → incase
for liability

Call - y ?'s w/ NOV
W/ multi comply dates.
some flexibility
y ?'s call prior to comply dates
or no flexibility

NOV Noaxn → Co r/t

BB

Region IV CM&E Form Side A

EPA ID: NCD097368299 #

DATA ENTRY PERSONNEL
Submitted by: ___ Date: ___
Entered by: ___ Date: ___

McDowell Co 37

Facility Name: Drexel Heritage Plant 2 City: Marion

EVALUATION DATA: New: X Change: __ Delete: __ (—— : Required)

Agency: S Date: Mo. 09 / Day 28 / Year 94 Type: CEI

Control Number Data Entry Personnel: 15

Person: 061 BRANCH 01 REASON

Coverage Areas: (E: Evaluated NE: Not Evaluated NA: Not Applic. D:Del.)

Generators: GBF, GER E, GGR, GLB, GMR, GOR, GPT, GRR, GSC, GSQ

Transporters: TGR, TMR, TOR, TRR, TWD

USED OIL: TUO, TFO, BUO, MUO, PUO, RUO

TSD's: DBF, DCH, DCL, DCP, DFR, DGS, DGH, DIN, DLB, DLF, DLT, DMC, DMR, DOR, DOT, DPB, DPP, DSI, DTR, DTT, DWP

COMPLIANCE SCHEDULE (TSD, GEN, TRANS.) FEA ___ CAS ___

RECEIVED OCT 5 1994 HAZARDOUS WASTE

Evaluation Comments: (72) 1: per Notification noted

2: Please find $700 - 2. for update

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

#__ Agency: ___ Type: ___ Date (mdy) Determined: __/__/__ Class: ___

Priority: ___ Branch: ___ Person: ___ Seq. Number (Data Entry) ___

Return to Compliance: -- Scheduled -- __/__/__ --- Actual ---- __/__/__

Reg. Type: ___ Reg. Description (30): ___

Comment (72): ___

RCRA INSPECTION REPORT

X = violation noted; NA = not applicable

Facility Name: Drexel Heritage Plant #2
Location: 3601 Blue Ridge St Marion NC 28752
Mailing Address:
ID #: NCD 097 368 297 Phone number: 704.433.3511 (Corp (652 4767) site
Contact/Title:
Inspection Date: 9-28-94 Last Inspection: 9-13-93
Phone number: 652 2535 Status: Generator
Inspector(s): Spring Allen Type of Inspection: CEI
Present at Inspection: Jimmy Lowery (Maintenance Safety)
Type of business: Manufacturer Wooden Furniture
Wastes Generated: D001/D039 petroleum Naptha (also D006 D008 D018, D035, D040) F003/5/D001 Acetone Toluene,

****

Manifests:

Approved transporters? YES Approved TSD's ? YES
Signed Copies? YES Filled out correctly? YES
LDR notification attached? (YES)
Safety Kleen Corp. SCD (Greer)
The Pollution Co VAD.

Waste Minimization: Corporate policy but now written plan. Corporate environmental personnel are assisting facility to develop written plan. New spray guns changed to blanket filters

Inspection Records?

Evidence that inspections are conducted

Contingency Plan: Last Revision 5-18-94

On site? YES
Any changes to facility/processes or Emergency coordinator since last review? YES
Contingency plan implemented? (if yes, was it adequate ?)
Johnny Presnell 1st Jeff Smith 2nd.

Training Records: YES training conducted 3-17-94

Certified training documents available? OK
Any new employees since last review? OK
Evidence of improper/inadequate training? OK
on spot Orders

Facility name: Drexel Heritage Plant #2 Page 2
ID #: NCD 097 368 297 Inspection Date 9-28-94

Employee interviews:
Name(s) Jimmy Lowe Trained? 3-17-94
need more emphasis for hazards for clean up personnel.

Annual Report submitted? 2-24-94 copy retained on site

Emergency Preparedness:
* Facility maintained and operated to prevent releases? OK
Internal communications or alarm present? OK
Device in area of operation to summon outside aid? OK radios.
Portable fire extinguishers and/or fire control equipment? OK
Spill control equipment? sawdust.
Adequate water volume, foam equipment, or auto sprinklers? throughout
All equipment/alarms tested and maintained? in house weekly
All personnel handling HW have access to alarm/device? yes
* Aisle space in areas of facility operation? yes
Agreements with Emergency Responders? yes as described in plan

Storage
~~Satellite Accumulation~~ Area(s): Location(s): ~~Satellite Area~~
Storage area was the old house, 10 drums at time of inspection in good order.
Containers: Closed? OK
labeled? OK OK
< 55 gallons?

Satellite
~~Storage Areas~~: Description: ~~Storage to the thinner~~
1 - Little Jumbo Area - LC.
1 - Rawlplug Diptank

Containers: Closed? OK
labeled? OK
dated? OK
good condition? OK
Aisle space? OK
evidence of release? NO
< 90 days? OK

Other HW units: (applicable regulations)
Description of unit:
Used oil storage shed newly built - on existing concrete pad

External facility condition: much improved, facility conducted general cleanup and removal of obsolete materials

Facility name: Drexel Hardaway Plant #2
ID #: NCD 097-308-297 Inspection Date 9-28-94

Site Deficiencies:

None noted

NOTE: Facility is currently clearing upon area of used ore release and clearing a burn area under NOV Docket # 94-324. These areas although much improved have not been addressed specifically by this report.

Inspector/ Reviewer

9-28-94
Date

Jimmy Lowery
Facility Contact

Region IV CM&E Form - Side A

EPA ID: NCD 097 3 6 [redacted] 2 9 4

DATA ENTRY PERSONNEL
Submitted by: [redacted] Date: _____
Entered by: _____ Date: _____

38

Facility Name: Drexel #2 City: Marion

EVALUATION DATA: New: __ Change: __ Delete: __ (—— : Required)

Agency: Date: Mo: 12 / Day: 07 / Year: 94 Type: CEI

Control Number Data Entry Personnel

Person: 063 BRANCH 01 REASON

Coverage Areas: (E: Evaluated NE: Not Evaluated NA: Not Applic. D: Del.)

Generators: GBF, GER, GGR E, GLB, GMR, GOR, GPT, GRR, GSC, GSO

Transporters: TGR, TMR, TOR, TRR, TWD

USED OIL: TUO, TFO, BUO, MUO, PUO, RUO

TSD's: DBF, DCH, DCL, DCP, DFR, DGS, DGH, DIN, DLB, DLF, DLT, DMC, DMR, DOR, DOT, DPB, DPP, DSI, DTR, DTT, DWP

COMPLIANCE SCHEDULE (TSD, GEN, TRANS) FEA CAS

RECEIVED DEC 15 1994 HAZARDOUS WASTE

Evaluation Comments: (72) 1 :

2 : In Compliance w/ NOV # 94-324

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / -- Actual -- / /

Reg. Type: Reg. Description (30):

Comment (72):

JAN 1995 ENTERED RCRIS

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / -- Actual -- / /

Reg. Type: Reg. Description (30):

Comment (72):

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / -- Actual -- / /

Reg. Type: Reg. Description (30):

Comment (72):

Continue violation data if necessary -

DAT ENTRY PERSONNEL

Submitted by: _____ Date: _____

Entered by: _____ Date: _____

Region IV CMLE Form - Side B

EPA ID: W C D 0 9 7 3 6 8 2 7 7

Facility Name: Dexel #2 City: Marion

ENFORCEMENT DATA: New: __ Change: __ Delete: __ (—— : Required)

Agency: S Type: 120 Date: Month / Day / Year Number (Data Entry)

Person: 085 Branch: 01 Comment (72): In Compliance w/ NOV #94-324

Penalty Data

Assessed: $ Paid: $ Date Paid: / /

Settled: $ $ / /

Enforcement Comments (74): 1: _____

2: _____

Cite violations for this enforcement action below -

VIOLATION DATA: New: __ Change: __ Delete: __

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / --- Actual --- / /

Reg. Type: Reg. Description (30): _____

Comment (72): _____

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / --- Actual --- / /

Reg. Type: Reg. Description (30): _____

Comment (72): _____

#__ Agency: Type: Date (mdy) Determined: / / Class:

Priority: Branch: Person: Seq. Number (Data Entry)

Return to Compliance: -- Scheduled -- / / --- Actual --- / /

Reg. Type: Reg. Description (30): _____

Comment (72): _____

Continue violation data if necessary -

RCRA RE-INSPECTION REPORT

1) Facility Name: Drexel #2

ID Number: NCD 097 368 294

Type of facility: generator

Contact: Bud Bland

Phone Number:

Facility Location (address): 361 Blue Ridge ST

City, State, Zip: Marion, NC 28752

2) Survey Participants: R. Russell, S. Allen, Bud Bland, J Lowery.

3) Date of Inspection: 12-8-94

4) Purpose of Inspection: To determine compliance with NOV # 94-324.

5) Site Deficiencies:
- Oil storage pad covered, diked w/ storage rack for drums.
- Soil sampled and showed no hazardous constituents.
- all containers at loading dock removed

Signed:

Roberta Russell
Inspector/Reviewer

12-12-94
Date

per certified mail
Facility Contact

DREXEL HERITAGE

ABBREVIATED HISTORY FOR (up through 5/12/06):
Willwear Hosiery
County: McDowell
COC: heating oil
GW # - 11940

Current property owner:
Don & Susan Mitchell
P.O. Box 1958
Marion, NC 28752-0000

Physical address:
360 Blue Ridge Street
Marion, NC 28752

RP: (was)
Mr. Tony Shogren
Shogren Industries
Address unknown

Past Consultant:
Mr. Roger Moore
ALPHA Environmental

Parcel #

HAS UST DETERMINED THAT THIS IS IN FACT A NON-UST SPILL? (i.e. AST + UST + LINES + UST SYSTEM)

yes - all determined by Bill Reid according to a phone log by Mike Streeter. (reviewed by Bunnie as well)

DID ALPHA HAVE A SECURITY INTEREST IN PROPERTY OR WAS IT GIVEN AS A SETTLEMENT OF SORTS? IF THE LATTER, THEN NOW ALPHA AS WELL AS CURRENT OWNERS

This file has been sitting in limbo since 1999. The incident began due to a spill of 2000 gallons of heating oil from an AST at the Willwear Hosiery property. A UST connected to an AST was sending fuel via a line to the AST when the shut off valve became stuck and leaked 2000 g of fuel onto the ground overnight. It became more complicated as heating oil/diesel was found to be leaking from drainage pipes on an adjacent property (Drexel). There was an implication that it had come from the Willwear property, however access was denied initially to get onto the property for installation of monitoring wells. Then, Willwear went bankrupt and all work ceased. The property was given to ALPHA due to the debts owed by the company for their previous environmental work. ALPHA has since sold the property. NCDENR tried sending out enforcement letters to the RP, however both attempts were returned with "no longer at this address, forwarding address unknown". Neither a CSA nor a CAP was ever completed.

1/21/94	Spill at the plant occurred – reportedly covered up by hauling in gravel and not reported.
3/18/94	Spill called in to the NCDENR – AST leaked heating oil over a 24-hour period onto the ground.
3/24/94	NOV for Oil Spill Act sent by NCDENR
4/11/95	Report to NCDENR about fuel oil seeping out from under Drexel Heritage Bulk Storage building.
4/24/95	UST closure report submitted by ALPHA – 3 closure samples indicated that no contamination present beneath UST.
5/17/95	Letter from ALPHA indicates that RP will take responsibility for diesel on Drexel property and will address as part of the scope of work for the CSA.
5/23/95	ALPHA submits a Soil Remediation Report. The UST and AST were removed from the site and a new AST installed. Contaminated soils were excavated around the fill pipes, product lines, and beneath the location of the AST. 294 Tons of soil was thermally treated on site. CSA was still being completed.

I'm not sure the difference here, but said they acquired following bankruptcy...

5/23/95	Phone call to Mike Streator from the adjacent property owner (Drexel Heritage) complaining of diesel fuel coming onto their property from Willwear.
6/6/95	Letter submitted to NCDENR showing locations of additional monitoring wells to be installed at Drexel as part of the CSA.
7/3/95	Drexel Heritage denies ALPHA access onto property to install the proposed MW's, even though they agreed during a previous site meeting at the Drexel property.
7/6/95	Drexel heritage corporate confirms property access denial, but agrees to a meeting to discuss the situation.
7/7/95	NCDENR sends a letter to Drexel requiring site access under 2L provisions – Drexel's response is they want more info before proceeding
8/1/95	telephone call from ALPHA confirms that Willwear has gone out of business and has not paid off their account – no work is to be done until finances are settled. ALPHA to keep NCDENR informed. NCDENR responds by issuing a letter to Willwear stating that despite their bankruptcy, they are liable and responsible for the incident and all environmental work.
12/10/96	"Recommendations for Enforcement Action" letter sent to Mr. Shogren by the NCDENR – returned because he is no longer at that address.
1/21/97	Second attempt to send above letter – returned again – no known forwarding address.
5/18/98	Roger Moore of ALPHA calls NCDENR stating that they have acquired the property due to the bankruptcy of the company and the unpaid debt – wants to sell the property and has potential interested buyer.
8/11/9899	ALPHA requests site closure of Willwear in a report that indicates all contaminated soils were remediated and based on 3 rounds of GW sampling in 3 monitoring wells showing target constituents below 2L.
5/12/06	MEH calls Roger Moore of ALPHA to get any site update since the 1999 report. Mr. Moore stated that he felt Kay couldn't move forward with anything due to unconfirmed status of plume on Drexel property and denial of access. Roger stated that Willwear property has been sold, and he believes Drexel is a vacant property at present.

1 PLUME OR CO-MINGLED Unknown

COMPLETED:

- soil contamination was excavated and remediated – appears complete
- 3 monitoring wells installed and sampled showing low levels of contaminants

PROBLEMS:

- Off-site plume migration and extent never confirmed – Drexel may now be a vacant property.
- Groundwater sampling at Willwear has not been done since 1999
- No confirmation that seepage at Drexel was due to Willwear spill.
- No idea on location of RP (Shogren)

AH!

ASK IN NOVS IF ANYONE HAS INFO.

NOV MAY ALSO STATE THAT NEED MONITORING FOR POTENTIAL CLOSURE? AS OPPOSED TO CSA ETC. LETS TALK

Drexel property had impact from heating oil/water coming from a drain pipe next to bulk storage bldg on Drexel property - no MW's ever installed on Drexel.

3 wells

MCCO
11940
WI WEAR HOSIERY MFG. CO.
MES 4/24/95

ALPHA
ENVIRONMENTAL SCIENCES INC.

April 10, 1995

Mr. Michael Streeter
N.C. Department of Environment, Health
and Natural Resources
Groundwater Section
59 Woodfin Place
Asheville, NC 28801

RE: Willwear Hosiery, Marion, North Carolina
Closure Report

Mr. Streeter:

Attached, please find the Closure Report for the Willwear Hosiery site in Marion, North Carolina.

Mr. Streeter, if you have any questions or need additional information, do not hesitate to call.

Sincerely,

Alpha Environmental Sciences, Inc.

Ken Berry

Ken Berry, EIT

KB/ng

cc: Mr. Charles McClung

RECEIVED
APR 24 1995
Groundwater Section
Asheville Regional Office

Corporate Office:
400 DELLWOOD ROAD, SUITE A-2, P.O. BOX 31
WAYNESVILLE, NC 28786 · 704-452-3449 · FAX 452-7828

Service Office:
WAPPOO EXEC. PARK, 105 WAPPOO CREEK DR., SUITE 4-A
CHARLESTON, SC 29412 · 803-795-1220 · FAX 795-1296

ALPHA
ENVIRONMENTAL SCIENCES INC.

UNDERGROUND STORAGE TANK

CLOSURE REPORT

MARION, NORTH CAROLINA

PREPARED FOR:

WILLWEAR HOSIERY
MARION, NORTH CAROLINA

Prepared By:

Alpha Environmental Sciences, Inc.
400 Dellwood Road, Building A, Suite 2
Post Office Box 31
Waynesville, NC 28786
(704)-452-3449

RECEIVED
APR 24 1995

APRIL, 1995

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I. Background

II. Field Activities

III. Site Investigation

IV. Laboratory Analysis Results

V. Conclusions

VI. Recommendations

ATTACHMENTS:

Appendix A - Site Plan

Appendix B - USGS Topographical Quadrangle Map

Appendix C - Laboratory Analysis Sheets

Appendix D - UST Closure Form

Appendix E - Certificate of Tank Disposal

I. BACKGROUND

The subject site is the Willwear Hosiery Manufacturing Plant located at 360 Blue Ridge Street in Marion, North Carolina. The site is owned by the Willwear Hosiery Manufacturing Company located in Concord, North Carolina. Alpha Environmental Sciences, Inc. was contracted to remove an 8,000-gallon underground tank and a 550-gallon aboveground tank and install an 8,000-gallon aboveground tank.

According to plant personnel, the underground tank had been installed in the early 1970's. There have been no known releases from the underground tank. There had been a release of fuel oil from the 550-gallon aboveground tank, and Alpha Environmental Sciences, Inc. is currently preparing a Comprehensive Site Assessment of the site.

II. FIELD ACTIVITIES

On **March 17, 1995**, Alpha Environmental Sciences, Inc. completed the installation of the new aboveground tank, and the underground storage tank was then scheduled to be removed on **March 22, 1995**. The Marion Fire Marshall was notified of the removal of the tank. Approximately 4,000 gallons of fuel oil was transferred to the new aboveground tank.

The tank was located approximately four feet below the surface of the ground. After the tank was removed, it was cleaned and inspected for visible leaks. The tank appeared to be in good condition, and no leaks were visible.

The soil that was excavated during the tank removal was not stained and did not contain an odor. Some soil contamination was found around the tank fill, and this soil was stockpiled. The excavated soil was primarily a sandy clay mixture.

III. SITE INVESTIGATION

After excavation and removal of the tanks, three (3) subsurface soil samples were taken from each tank void under the centerline of the soil. The soil samples were grab samples that were collected approximately 14 feet below the ground surface. The samples were collected using EPA protocol and placed in amber sampling jars with teflon lids. These samples were then marked as WW-S01, WW-S02, and WW-S03, placed in an ice-filled cooler, and delivered to EMSL Analytical Labs using EPA approved Chain-of-Custody.

The excavated soil was screened in the field with a Photoionization Detector (PID) for organic vapors. The PID was calibrated using isobutylene at 100 ppm in air prior to use. The PID was recalibrated after use to ensure accuracy. The soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) using EPA Method 8015 modified for gasoline and diesel range organics as required for UST closure by the N.C. Department of Environment, Health, and Natural Resources, DEM, Groundwater Division. The lab analysis was performed by EMSL Analytical Services. Their N.C. State Certification Number is 403.

Based on research performed by Alpha Environmental Sciences, Inc., there appears to be no nearby (within 1500 feet of the subject site) water supply wells currently being used. The factory and surrounding sites are supplied with city water. The immediate area was searched during a drive-by inspection, and no water supply wells were found within 1500 feet of the subject site.

IV. LABORATORY ANALYSIS RESULTS

The soil samples were sent to EMSL labs and were analyzed for TPH using EPA Method 8015 modified GRO and DRO. The laboratory results are listed in the table below. Soil sample locations are shown on the Site Map.

SOIL SAMPLE RESULTS

Sample Location	Depth	GRO Results (mg/kg)	DRO Results (mg/kg)
WW-S01	14'	< 1	< 3
WW-S02	14'	< 1	< 3
WW-S03	14'	< 1	< 3

V. CONCLUSIONS

Laboratory analysis results for the soil samples indicate contamination levels below the regulated level of 10 ppm TPH as required by the N.C. Department of Environment, Health, and Natural Resources, DEM Groundwater Section.

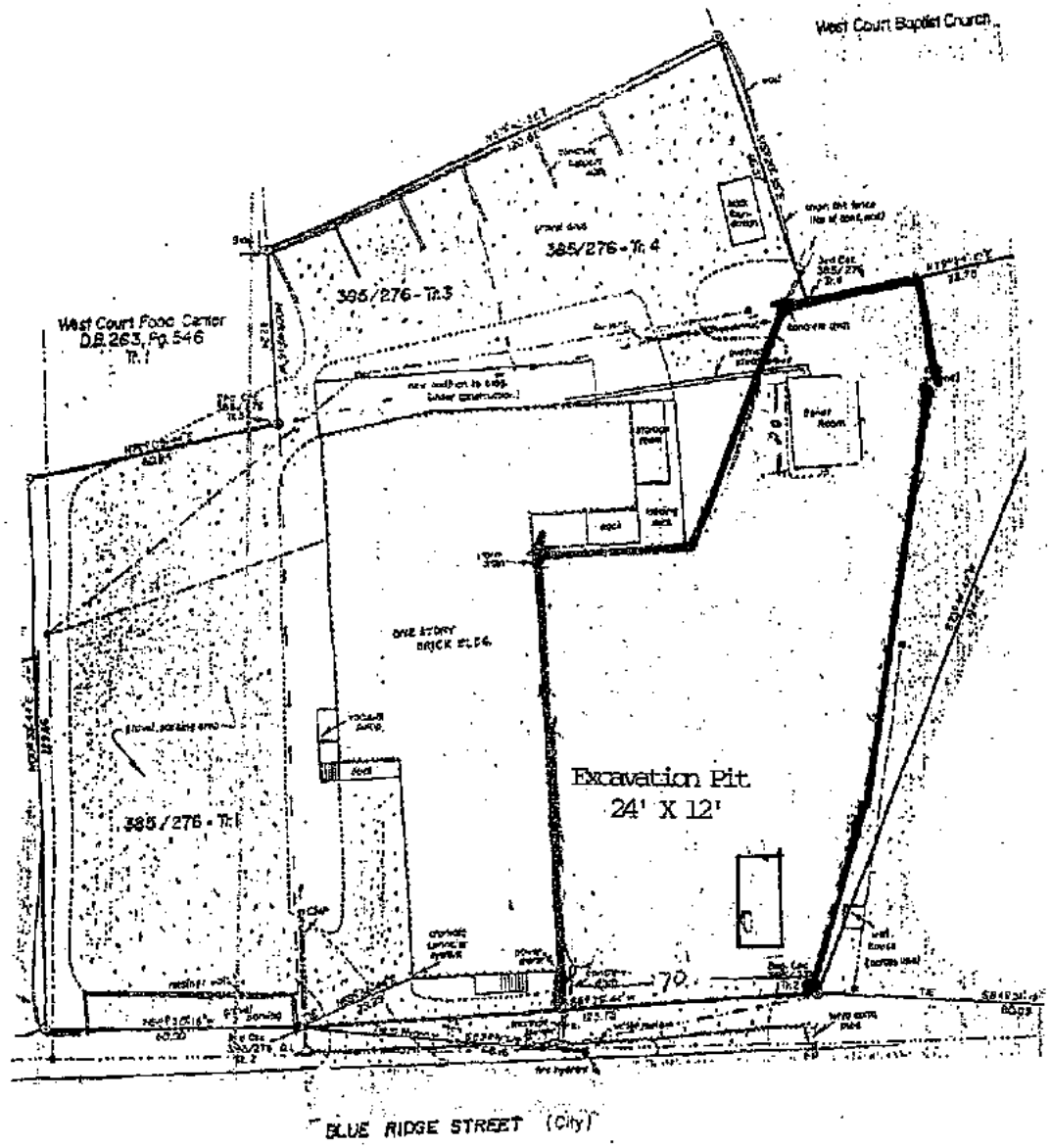
Some contaminated soil was removed from around the tank fill, and the soil was stockpiled with the soil that was contaminated and previously stockpiled from the earlier fuel oil release from the aboveground tank. This soil was remediated on site by SRI, Inc., and documentation for this will be included in the Comprehensive Site Assessment.

VI. RECOMMENDATIONS

N.C. Department of Environment, Health, and Natural Resources, DEM, Groundwater Section at 59 Woodfin Place, Asheville, North Carolina needs to be notified as to the results of this closure report.

APPENDIX A

SITE PLAN



N

Willwear Hosiery Manufacturing Marion, North Carolina	
Site Overview	
Scale:	ALPHA Environmental Sciences, Inc.
Drawn By: KMB	
Date: 4/12/95	Drawing No. WH - 01

ALPHA
ENVIRONMENTAL SCIENCES INC.

SOIL REMEDIATION REPORT

WILLWEAR HOSIERY

MARION, NORTH CAROLINA

PREPARED FOR:

WILLWEAR HOSIERY
MARION, NORTH CAROLINA

Prepared By:

Alpha Environmental Sciences, Inc.
400 Dellwood Road, Building A, Suite 2
Post Office Box 31
Waynesville, NC 28786
(704)-452-3449

MAY, 1995

RECEIVED
MAY 2 3 1995
Groundwater Section
Asheville Regional Office

MCCO
11940
WILLWEAR HOSIERY MFG. CO.
ES 5/23/95

ALPHA
ENVIRONMENTAL SCIENCES INC.

May 8, 1995

Mr. Charles McClung
Willwear Hosiery Mills, Inc.
2000 Stuart Street
Chattanooga, TN 37406-0098

RE: Willwear Hosiery, Marion, North Carolina
Soil Remediation Report

Mr. McClung:

Attached, please find the Soil Remediation Report for the Willwear Hosiery site in Marion, North Carolina.

Mr. McClung, if you have any questions or need additional information, do not hesitate to call.

Sincerely,

Alpha Environmental Sciences, Inc.

Ken Berry, EIT

KB/ng

cc: Mr. Michael Streeter

RECEIVED
MAY 23 1995
Groundwater Section
Asheville Regional Office

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BACKGROUND

FIELD ACTIVITIES

ATTACHMENTS:

LABORATORY ANALYSIS SHEET

BACKGROUND

The subject site is the Willwear Hosiery Manufacturing Plant located at 360 Blue Ridge Street in Marion, North Carolina. The site is owned by the Willwear Hosiery Manufacturing Company located in Concord, North Carolina.

A spill of an undetermined amount of #2 Fuel Oil at the site prompted the North Carolina Department of Environment, Health, and Natural Resources to issue a Notice of Violation for the site on **March 24, 1994**. Alpha Environmental Sciences, Inc. was contracted by Willwear Hosiery to complete a Comprehensive Site Assessment (CSA) on the site, remove a 8,000-gallon underground storage tank and a 550-gallon aboveground storage tank, and remediate the contaminated soil on the site.

FIELD ACTIVITIES

On **March 22, 1995**, Alpha Environmental Sciences, Inc. arrived on site to remove both the 8,000-gallon UST and the 550-gallon AST. Also, Alpha Environmental Sciences had arranged for the contaminated soil to be treated on the site at that time by SRI, Inc.

During the tank excavations, the soil was screened with a Photoionization Detector (PID) for organic vapors. The PID was calibrated using isobutylene at 100 ppm in air prior to use. The PID was recalibrated after use to ensure accuracy. Any screened soil that indicated elevated levels of contamination, was stockpiled for remediation.

Some contaminated soil was found around the tank fill pipe and along the product lines. Considerable contamination was found in the soil under the aboveground tank. This soil was excavated and stockpiled to be remediated.

SRI, Inc. arrived on the site on **March 22, 1995**, and began thermally remediating the contaminated soil. A total of 294 tons of soil was remediated at the site. This soil was then used for backfill at the site. A composite sample was taken from the remediated soil, and lab results indicated that it was below N.C. Department of Environment, Health, and Natural Resources, State Guidelines.

A Comprehensive Site Assessment is currently being completed on the site. The CSA will define the soil and groundwater contamination extent and will be submitted to the N.C. Department of Environment, Health, and Natural Resources to determine if any additional work is required.

LABORATORY ANALYSIS

SHEET

26 LOADS
WILLOWRA HOSIERY
MARION N.C.
ALPHA ENV.

SRI

Soil Remediation Log

Date	Time In	Time Out	Total Time	Box	Comments
3-22-95	10:00	12:00	2:00	F	NEW FILTRS INSTALLED
3-22-95	12:00	2:00	2:00	B	
3-22-95	2:00	4:00	2:00	F	
3-22-95	4:00	6:00	2:00	B	
3-22-95	7:00	9:00	2:00	F	
3-23-95	9:00	11:00	2:00	B	
3-23-95	11:00	1:00	2:00	F	
3-23-95	1:00	3:00	2:00	B	
3-23-95	3:00	5:00	2:00	F	
3-23-95	5:00	7:00	2:00	B	
3-24-95	6:00	8:00	2:00	F	
3-24-95	8:00	10:00	2:00	B	
3-24-95	10:00	12:00	2:00	F	
3-24-95	12:00	2:00	2:00	B	
3-24-95	2:00	4:00	2:00	F	
3-24-95	4:00	6:00	2:00	B	2 OIL X INSTALLED
3-27-95	7:00	9:00	2:00	F	
3-27-95	9:00	11:00	2:00	B	
3-27-95	11:00	1:00	2:00	F	
3-27-95	1:00	3:00	2:00	B	
3-27-95	3:00	5:00	2:00	F	
3-27-95	5:00	7:00	2:00	B	
3-28-95	6:00	8:00	2:00	F	
3-28-95	8:00	10:00	2:00	B	
3-28-95	10:00	12:00	2:00	F	
3-28-95	12:00	2:00	2:00	B	
3-28-95	2:00	4:00	2:00	F	
3-28-95	4:00	6:00	2:00	B	

Blue Ridge Labs
P.O. Box 8940 • Pine Mountain Road
Lenoir, North Carolina 28645
Telephone (704) 758-0149

CLIENT: SRI Remediation
P.O. Box 1543
Rutherfordton, NC 28139

Attention: Mr. M. Parks

DATE RECEIVED: March 29, 1995

DATE REPORTED: March 30, 1995

SAMPLE NUMBER	SAMPLE DESCRIPTION
503-0515	Soil; Alpha for 5030/3550.

PARAMETER	RESULTS	MOL		DATE STARTED
503-0515 - 5030	*	1.0	mg/kg	03/30/95
3550	*	5.0	mg/kg	03/30/95

REPORTED BY: _____
D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.

mes

ALPHA
ENVIRONMENTAL SCIENCES INC.

RECEIVED
AUG 18 1999
UST SECTION
ASHEVILLE REGIONAL OFFICE

August 11, 1999

NC DENR
Asheville Regional Office
DWM-UST Section
Interchange Building, 59 Woodfin Place
Asheville, NC 28801

Attention: Mr. Michael Streeter, P.G.

RE: Request for Closure of the Former Willwear Hosiery Facility, Marion, North Carolina, AES Project #8401.01

Dear Mr. Streeter:

Alpha Environmental Sciences, Inc. has been monitoring groundwater contamination levels over the past nine (9) months at the above referenced facility with the intent to request closure of the site with regard to the groundwater contamination from the petroleum release which occurred back in 1994. Three (3) shallow monitoring wells were previously installed at the site, upon completion of soil clean up. All three (3) wells were purged and sampled in September of 1998. The monitoring well identified as MW-1 showed low level volatile organic compounds as well as naphthalene. Samples were again collected from MW-1 in March, 1999 and June, 1999 in order to monitor the natural attenuation of the contamination. As of the June sampling event, no petroleum hydrocarbon contamination exceeds the 2L Groundwater Standards; therefore, we request closure of the site and groundwater incident with no further action required. Please find attached a diagram showing the locations of the shallow monitoring wells, a table showing the analytical results over the past nine (9) months and a copy of the laboratory analytical results from the groundwater analyses. Should you have any question with regard to the information contained in this letter or the attachments, please do not hesitate to contact us. We would appreciate your immediate attention to this matter and look forward to hearing from you very soon.

Respectfully submitted,

Alpha Environmental Sciences, Inc.

Roger D. Moore

Roger D. Moore, P.G.
Professional Geologist/Division Manager

RDM/dps

PROFESSIONAL ENVIRONMENTAL CONSULTING
Engineering Services Provided by Alpha Engineering Services, PA

Corporate Office: *www.alphaenviron.com* *Service Office:*
367 Dellwood Rd., Suite A-2 Post Office Box 31 660 Riverland Drive, Unit B
Waynesville, NC 28786 • (828) 452-3449 / Fax (828) 452-7828 Charleston, SC 29412 • (843) 795-1220 / Fax (843) 795-1296

VOLATILE ORGANIC COMPOUNDS
WILLWEAR HOSIERY FACILITY
MARION, NORTH CAROLINA
AES PROJECT #8401.01

Analytes in Parts Per Billion

SAMPLE DATE	WELL #	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
8/24/98	MW-1	8.64	9.78	32	167
	MW-2	ND	ND	ND	ND
	MW-3	ND	ND	ND	ND
3/10/99	MW-1	5.51	2.08	15.7	68.6
7/19/99	MW-1	ND <5	ND	11	46
	NCAC				
	2L				
	STANDARD	1.0	29	1000	530

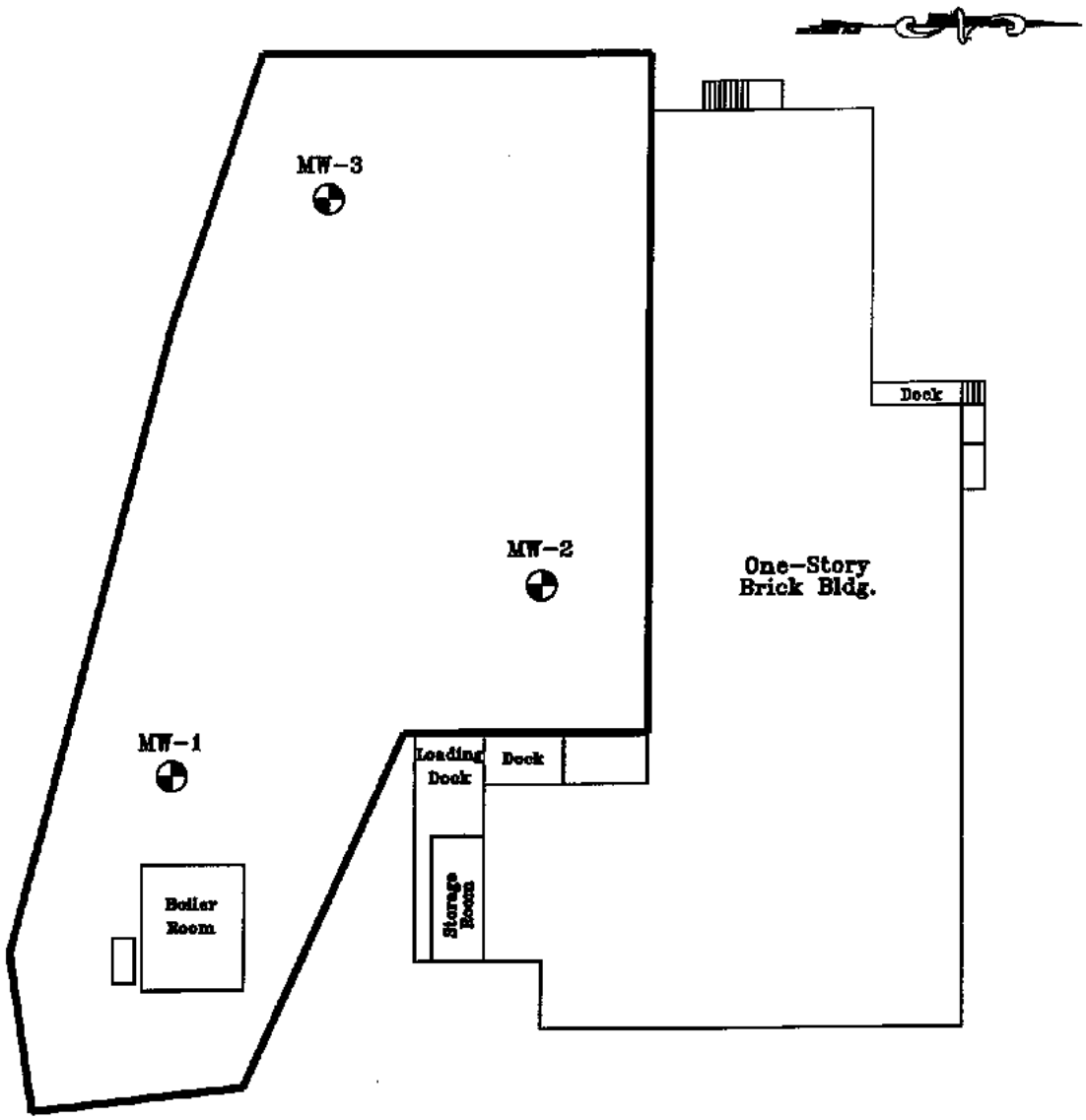
ND=Not Detected

SEMI-VOLATILE ORGANIC COMPOUNDS
WILLWEAR HOSIERY FACILITY
MARION, NORTH CAROLINA
AES PROJECT #8401.01

Analytes in Parts Per Billion (Detected Compounds)

SAMPLE DATE	WELL #	ACENAPHTHENE	FLUORENE	NAPHTHALENE	PHENANTHRENE
8/24/98	MW-1	ND	2.3	23.9	2.4
	MW-2	3.6	5.9	ND	4.2
	MW-3	ND	ND	ND	ND
7/19/99	MW-1	NT	NT	12	NT
	NCAC				
	2L				
	STANDARD	80 (I)	280 (P)	21(P)	210(P)

ND=Not Detected
NT=Not Tested (Already Below 2L Standards)
I=Interim Groundwater Standard
P=Permanent Groundwater Standard



FORMER WILLWEAR HOSIERY MARION, NC	
MONITORING WELL LOCATION DIAGRAM AES #8401.01	
SCALE: 1"=30'	ALPHA Environmental Sciences, Inc.
DRAWN BY: MJS	
DATE: 8/17/99	FIGURE 1

CONESTOGA-ROVERS
& ASSOCIATES

1801 Old Highway 8 N.W., Ste. #114, St. Paul, MN 55112
Telephone: 651·639·0913 Facsimile: 651·639·0923
www.CRAworld.com

STATE FILE

August 31, 2006

Reference No. 38497

Mr. John W. Walch
Inactive Hazardous Sites Branch
NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RECEIVED
SEP 0 4 2006
SUPERFUND SECTION

Dear Mr. Walch:

Re: Rock-Tenn Company: Marion Folding Groundwater Monitoring
Marion, North Carolina

As requested in your letter dated April 21, 2006 to Ms. Carla Bachunas of Rock-Tenn Company (RTC), Conestoga-Rovers & Associates (CRA) has completed a sampling and analysis round of the four monitoring wells located at the Marion Folding facility. The scope of work consisted of the following:

- measuring of static water levels in each monitoring well prior to purging groundwater from each well;
- purging of each groundwater monitoring well a minimum of three standing volumes in the well prior to collection of a groundwater sample;
- collection of one unfiltered groundwater sample from each well with placement in a sampling container preserved with nitric acid;
- analysis of each groundwater sample and a duplicate sample for the hazardous substance list metals identified in paragraph A.7.1 of North Carolina Department of Environment and Natural Resources (NCDENR) requirements including antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc;
- completion of an elevation survey to the nearest 0.01 feet at each of the four monitoring wells; and
- inquiries with the City of Marion municipal offices regarding the historic use of sewers/septic systems in the area of the plant.

All samples were collected in accordance with the scope of work described above with analyses completed by Severn-Trent Laboratories located in Charlotte, North Carolina. A summary of samples collected from the monitoring wells is included as Table 1.

In accordance with Paragraph 4.1.2 of North Carolina Administrative Code Title 15A, CRA compared the analytical results to the permanent and interim groundwater standards

established in 15A NCAC 2L.0202 groundwater quality standards. Three of the metals analyzed, antimony, beryllium, and thallium do not have interim or permanent standards under the North Carolina groundwater quality standards. For those parameters, CRA utilized the lowest of maximum contaminant levels (MCLs), non-zero MCL Goal (MCLG), or the most current Preliminary Remediation Goal (PRG) for tap water from Region IX of USEPA. For the three parameters not included in the NCDENR tables (antimony, beryllium, and thallium), the lowest criteria were the MCLGs. Based on the analytical results, manganese was the only parameter detected at concentrations above the respective criterion, with concentrations ranging from 22.3 to 9400 µg/L. Antimony was also detected in the four wells at estimated concentrations ranging from 4.3 to 6.3 µg/L. While the MCL for antimony is 6 µg/L, all the concentrations are consistent and appear to represent background conditions. A summary of analytical results is provided in Table 2. Laboratory reports are included as Attachment 1.

Based on the water levels and the surveyed elevations of the monitoring wells, the general groundwater flow at the Site is from northwest to southeast, with some variation along the eastern portion of the Site in proximity to the MW-3 and MW-4. A groundwater contour map based on the water levels measured is included as Figure 1. Based on the groundwater flow pattern, the higher concentration of manganese detected in the MW-3 would appear to be coming from the northeast of the Site; however, the concentration in MW-4 was significantly lower than the concentration of MW-3. Based on information related to on-Site activities, there is no known use of manganese associated with Marion Folding or previous operations. Based on information on the North Carolina Geological Survey web site, manganese is common in western North Carolina and is even mined at two locations in McDowell County.

According to information provided by the City of Marion, Department of Public Works, the Site has likely been connected to the City sewer since initial development in 1929. Based on communications with department personnel, the oldest municipal wastewater treatment facility was likely in service at the time of the initial construction of the Marion Folding facility. Due to the proximity of the Site to the city's first wastewater treatment plant and location of the Site within the older and more established downtown area, it is believed that the facility has been connected to the city sanitary sewer system since inception. However, departmental review of the water and sanitary system records indicate the oldest existing records reference back to only 1985. Department staff members indicate that a shredding company was contracted for records disposal and all prior water and wastewater billing and other records have been destroyed as a result. Similarly, the facility has changed ownership several times over the years and early records are not known to exist nor has there been a known transfer of such records with the changes in ownership.

CONCLUSIONS

Based on the water levels and surveyed well elevations at the four monitoring well locations, groundwater underlying the Site generally flows from northwest to southeast. Based on the concentrations of parameters detected in the monitoring wells, there does not appear to be any impact to the groundwater underlying the Site as a result of Marion Folding or previous Site operations.

If you have any questions or require additional information, please contact the undersigned at (651) 639-0913.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian C. Boevers

BCB/jm/1
Enc.
c.c. Carla Bachunas; RTC

TABLE 1

SAMPLING SUMMARY
ROCK-TENN COMPANY - MARION FOLDING
MARION, NC
August 1 & 2, 2006

Location	*Sample ID*	*Well Depth (feet)*	*Water Level*	*Volume Water Removed (gallons)*
MW-1	GW080106TV01A	18.02	1393.95	4.5
MW-2	GW080206JTV02A	18.10	1389.68	8.5
MW-2 (Duplicate)	GW080206JTV02A DUP1	18.10	1389.68	8.5
MW-3	GW080206JTV03A	17.36	1386.67	4.5
MW-4	GW080206JTV04A	15.46	1392.78	4.5

TABLE 2

GROUNDWATER MONITORING ROUND
ROCK-TENN COMPANY - MARION FOLDING
MARION, NC
August 2006

Analyte	*Criteria* [1]	*Unit*	*MW-1 GW080106JTV01A 8/1/06*	*MW-2 GW080206JTV02A 8/2/06*	*MW-2 (Dup) 080206JTV02DUP1 8/2/06*	*MW-3 GW080206JTV03A 8/2/06*	*MW-4 GW080206JTV04A 8/2/06*
Antimony	6[2]	ug/L	6.1 J	4.3 J	4.7 J	5.1 J	6.3 J
Arsenic	50	ug/L	< 10	< 10	< 10	< 10	< 10
Beryllium	4[2]	ug/L	< 5	< 5	< 5	< 5	< 5
Cadmium	1.75	ug/L	0.049 J	< 1	0.05 J	0.75 J	0.038 J
Chromium Total	50	ug/L	< 10	< 10	< 10	< 10	< 10
Copper	1000	ug/L	< 5	< 5	< 5	< 5	< 5
Lead	15	ug/L	< 3	< 3	< 3	< 3	< 3
Manganese	50	ug/L	**60.1**	**22.3**	**146**	**9400**	**136**
Mercury	1.05	ug/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	100	ug/L	< 40	< 40	< 40	< 40	< 40
Selenium	50	ug/L	< 5	3.2 J	< 5	< 5	< 5
Silver	17.5	ug/L	< 5	< 5	< 5	0.77 J	< 5
Thallium	0.5[2]	ug/L	0.087 J	0.029 J	0.04 J	0.016 J	0.019 J
Zinc	1050	ug/L	65.3	9.9 J	14.5 J	6.9 J	14.3 J

Notes:
J - Estimated result (detected below reporting limit).
1 - Permanent or interim standard established under 15A NCAC 2L.0202.
2 - U.S. EPA Maximum Contaminant Level Goals.

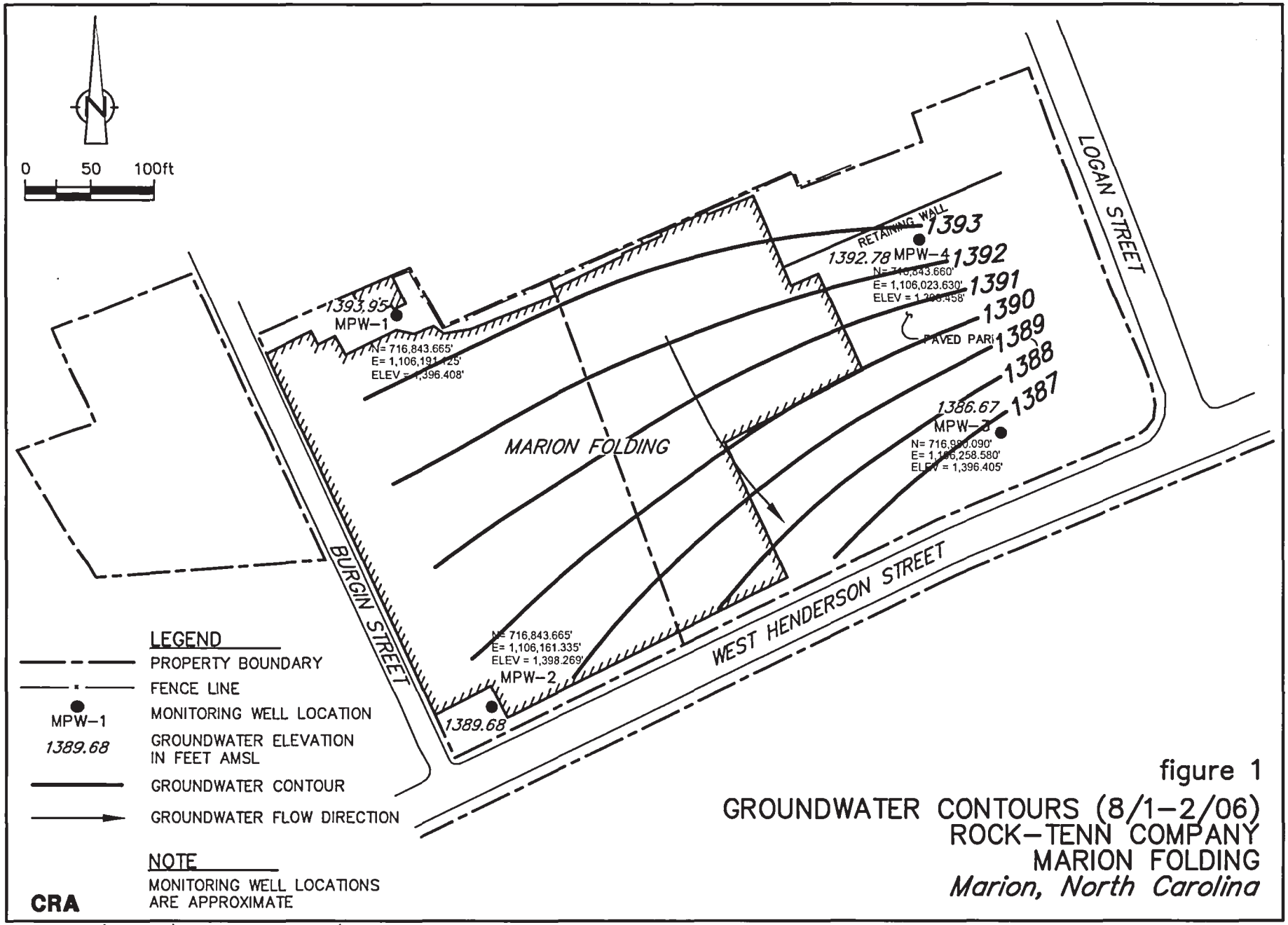


figure 1

GROUNDWATER CONTOURS (8/1-2/06)
ROCK-TENN COMPANY
MARION FOLDING
Marion, North Carolina

38497-00(MISC007)GN-SP002 AUG 29/2006

LIMITED ASBESTOS AND LEAD-BASED PAINT ASSESSMENT



FORMER DREXEL FACILITY

BLUE RIDGE AND CARSON STREETS
MARION, NORTH CAROLINA 28752

ECS PROJECT NO. 49:3978 B

FOR

CITY OF MARION

JULY 7, 2017

July 7, 2017

Ms. Heather Cotton
City of Marion
194 North Main Street
Marion, South Carolina 28752
hcotton@marionnc.org

ECS Project No. 49:3978 B

Reference: Limited Asbestos and Lead-Based Paint Assessment, Former Drexel Facility, Blue Ridge and Carson Streets, Marion, North Carolina

Dear Ms. Cotton:

ECS Southeast, LLP (ECS) is pleased to provide City of Marion with the results of the above referenced Limited Asbestos and Lead-Based Paint Assessment performed at Former Drexel Facility located at Blue Ridge and Carson Streets in Marion, North Carolina. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 49:5347-PR and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide City of Marion with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Southeast, LLP

Thomas Barnes
Assistant Staff Project Manager
twbarnes@ecslimited.com
864-326-4786

Lindsey Lucas, REM
Environmental Principal
LLucas1@ecslimited.com
864-987-1810

EXECUTIVE SUMMARY

The subject property consists of multiple Former Mill buildings in various states of demolition on a parcel of land totaling 15.29 acres and is located within the Marion city limits. ECS understands the existing structures and debris piles will potentially be disturbed as part of redevelopment/demolitioin activities once the City of Marion acquires the property. At the time of our assessment the subject buildings were either vacant, demolished, or partially demolished.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) or Lead-Based Paint are present on the subject property. The survey was performed within interior and exterior areas of the subject buildings as well as the debris piles.

Based on the laboratory analysis of the bulk samples collected during the assessment, the following materials were reported to contain asbestos:

- Black Mastics on Brick and CMU Block
- Cementitious Panels
- 12" Grey Floor Tile and Black Mastic in the Office
- White Window Glazing in the Office
- Bags of TSI and Possibly other Asbestos Containing Materials Piled in the Office (Assumed Positive)

The lead-based paint survey was performed by an EPA licensed Lead Inspector. Painted and/or glazed surfaces were assessed for lead content using a Direct-Read X-Ray Fluorescence (XRF) Spectrometer. Lead-Based Paint/Glaze was identified on the following building materials/components:

- White Paint on Wood of the Fire Protection Shack outside the Office
- Cream Paint on Trim Wood in Machine Building

Recommendations regarding the removal and disposal of the ACMs and LBPs identified by ECS can be found in Section 5.0 of this report.

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1.0 SITE DESCRIPTION

ECS visited the property on June 21, 2017. The subject property consists of multiple buildings in various states of demolition on a parcel of land totaling 15.29 acres and is located within the Marion city limits. ECS understands the existing structures and debris piles will potentially be disturbed as part of redevelopment/demolitioin activities once the City of Marion acquires the property.

2.0 PURPOSE

The purpose of the Limited Asbestos and Lead-Based Paint Assessment was to identify asbestos-containing materials (ACMs), and Lead-Based Paint (LBP) which may require special handling and/or disposal if removed during construction activities. The identification of ACMs and LBP may require trained labor, regulated work practices, and special disposal. The identification of LBP or other lead hazards may require disclosure to contractors and monitoring of lead exposure.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs), and Lead-Based Paint (LBP).

3.1 Asbestos-Containing Materials

For assessment purposes the EPA NESHAP requirements for asbestos assessments prior to renovation or demolition were recommended for this assessment. Renovation or demolition is defined under NESHAP as the removal of a load-bearing structure or member. On the basis of requirements under NESHAP and North Carolina Asbestos Hazard Management Program (AHMP), administered by Health Hazards Control Unit (HHCU), for demolition activities, ECS conducted a limited assessment for potential asbestos-containing building materials (ACBM). The ACBM assessment was limited in that ECS did not conduct demolition such as jack/sledge hammering or cutting through walls, ceilings, floors, or structural members to expose potentially concealed materials.

The tasks associated with the proposed asbestos assessment were:

1. ECS began by interviewing the site contacts to learn available information regarding the past history of the site, including ages of materials, past renovations, maintenance, etc.

2. ECS set up a date with the site access personnel to perform the assessment. Once the date was solidified, the Owner(s) granted ECS unrestricted access to the property.

3. ECS entered the buildings and began identifying the homogenous areas. Homogeneous areas are defined as sections of building materials appearing to have been installed in the same general time period, and are of uniform color and texture. Once homogeneous areas were identified, we collected samples of the materials suspected to contain asbestos in general accordance with AHERA, NESHAP and State of North Carolina regulations. Specifically, samples were collected from random locations of each homogeneous area. The number of samples collected from each homogeneous area varied by material type.

4. The number of samples collected were determined using the following criteria:

- Thermal Insulation Materials (piping, breeching, boiler insulation, etc.) - A minimum of three (3) samples were collected.
- Surfacing Materials (plaster, fireproofing, etc.) – A minimum of seven (7) samples were collected for areas greater than 5,000 square feet; five (5) samples collected for areas greater than 1,000 square feet, but less than 5,000 square feet; and three (3) samples collected for areas less than 1,000 square feet.
- Miscellaneous Materials (flooring, adhesives, roofing, wallboard, etc.) – A minimum of two (2) samples were required.

5. Samples collected at the site were delivered to a laboratory that has been accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for testing by polarized light microscopy (PLM). A chain of custody was maintained with the samples.

6. The assessment did not include destructive measures to look in chases, above fixed ceilings, behind permanent or attached fixtures, behind walls, etc. Materials located below carpeting corners, behind removable exterior siding and behind removable fixtures were sampled if accessible during the time of the assessment. Suspect materials observed in inaccessible areas were assumed positive.

7. If one sample of a material from a homogeneous area is reported to contain greater than 1% asbestos, then by EPA definition, it is characterized as asbestos-containing material.

The destructive asbestos survey was performed by Thomas W. Barnes (NC Asbestos Inspector No. 12983) and James Bevers (NC Asbestos Inspector No. 12914) on June 21, 2017. Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM. SAI participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 200664-0.

Unidentified suspect ACMs may be located in these and/or other inaccessible areas; concealed materials in debris piles should be evaluated at the time of discovery.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

3.2 Lead in Paint and Surface Coatings

The Lead-Based Paint (LBP) survey was performed by an EPA licensed Lead Inspector using a X-Ray Fluorescence (XRF) Spectrometer to identify lead concentrations in painted and glazed surfaces. In addition to the XRF screening, ECS conducted paint chip sampling from readily accessible materials on the site. The paint chips wee placed in sealed plastic containers and submitted to SAI in Greensboro, North Carolina for Analysis.

The survey was conducted utilizing the U.S. EPA definition of LBP. Under this definition, painted surfaces which contain lead in concentrations equal to or greater than 1.0 milligrams per square centimeter ($\geq$ 1.0 mg/cm^2) or equal t or greater than 0.5% (5000 ppm) total lead by weight are classified as coated with LBP. Paints with concentrations of lead detectable by the XRF are considered lead-containing paints. Additionally, fixtures or components that are manufactured with a factory applied glazing (i.e., sinks, toilets, ceramic tiles, etc.) are tested as these factory-applied finishes often contain lead. Activities which disturb lead-containing paints and glazing (while not lead-based paints by the U.S. EPA definition) are regulated by OSHA (29 CFR 1926.62).

Because the current or proposed use of the property is not residential or child-occupied, the scope of the LBP survey was not conducted in accordance with HUD Chapter 7 requirements. This representative survey included taking readings from walls, windows, doors, and miscellaneous components. Walls are listed by letter with wall “A” being the entrance of the subject building, proceeding clockwise to “B, C, D”, etc.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

In total, 47 bulk samples from 23 homogeneous areas were submitted to the laboratory of which 79 layers were analyzed. An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations. A complete list of the sampled materials submitted for analysis is located in the Appendix.

SAI submitted a signed final laboratory report to ECS on June 29, 2017. Ten (10) of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. These materials are summarized below. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

- Black Mastics on Brick and CMU Block
- Cementitious Panels
- 12" Grey Floor Tile and Black Mastic in the Office
- White Window Glazing in the Office
- Bags of TSI and Possibly other Asbestos Containing Materials Piled in the Office (Assumed Positive)

Summary of Asbestos-Containing Materials Identified

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
02-01 02-02	Pile #2	Black Mastic on Brick	4% Chrysotile	II	3,000 SF
03-01 03-02	Pile #1	Black Mastic on Brick	10% Chrysotile	II	500 SF
04-01 04-02	Pile #1	Black Mastic on Brick	10% Chrysotile	II	500 SF
05-01 05-02	Pile #3	Cementitious Panel	15% Chrysotile	I	100 SF
07-01 07-02	Pile #4	Black Mastic on Brick	15% Chrysotile	II	750 SF
13-01 13-02	Office	12" Blue Floor Tile, 12" Grey Floor Tile, Black Mastic.	Blue Tile and Yellow Mastic NAD, Grey Tile 5% Chrysotile, Black Mastic 6% Chrysotile	I	800 SF
18-01 18-02	Office	White Window Glazing	2% Chrysotile	II	200 LF
21-01 21-02	Pile #10	Black Mastic on Brick	6% Chrysotile	II	400 SF

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
22-01 22-02	Pile #10	Cementitious Panel	25% Chrysotile	I	100 SF

In addition to the materials listed in the above table, there were approximately 60 goose necked, asbestos labeled bags stacked in the bathroom of the office. a few of the bags had been opened and Air-Cell TSI was observed.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, under debris piles, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

4.3 Lead in Paint and Surface Coatings

Paint and surface coatings which contain detectable concentrations of lead considered “lead-containing paints”. Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead containing. Work performed which may disturb lead-containing paint is regulated under OSHA as referenced under 29 CFR 1926.62. A total of [164] readings were collected during the survey, including calibration readings. Paint and other surface coatings which are defined by applicable regulation as lead-based paints are summarized in the table below and photographs of lead-based paint identified are located in the Appendix.

Summary of XRF Lead-Based Paint Results

Location	Color	Substrate	Component
Concrete Slab	Yellow Caution Paint	Concrete	Slab
Door of Fire Protection Shack	White Exterior Paint	Wood	Door
Doorway Trim on Machine Building	Cream Yellow	Wood	Doorway Trim

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

ECS recommends where a material type has been identified as asbestos containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

Based on our understanding of the purpose of the Limited Asbestos and Lead-Based Paint Assessment, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends where a material type has been identified as asbestos containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos. Asbestos containing materials identified should be removed prior to disturbance.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may also be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within inaccessible areas that include, but are not limited to, [sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, vapor barriers, pipe trenches and other subsurface utilities, etc.] If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

5.2 Lead in Paint and Surface Coatings

Based on the findings of this report, detectable concentrations of lead were identified on some paints and surface coatings.

The presence of lead is a concern primarily when conditions exist where it may inhaled or ingested. Regardless of the analytical results of a material, all painted and/or glazed surfaces may still contain concentrations of lead in the paint, which when disturbed, may generate lead dust greater than the Permissible Exposure Limit (PEL) of 50 micrograms per cubic millimeter (ug/m3) as an 8-hour Time Weighted Average (TWA) established by the OSHA "Lead Exposure in Construction Rule (29 CFR 1926.62)."

The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the Permissible Exposure Limit (PEL) of 50 micrograms per cubic millimeter ($\mu g/m^3$) as an 8-hour Time Weighted Average (TWA). Under OSHA requirements, the contractor performing renovation work will be required to conduct this monitoring and follow applicable requirements under 29 CFR 1926.62 if disturbing lead-containing paint.

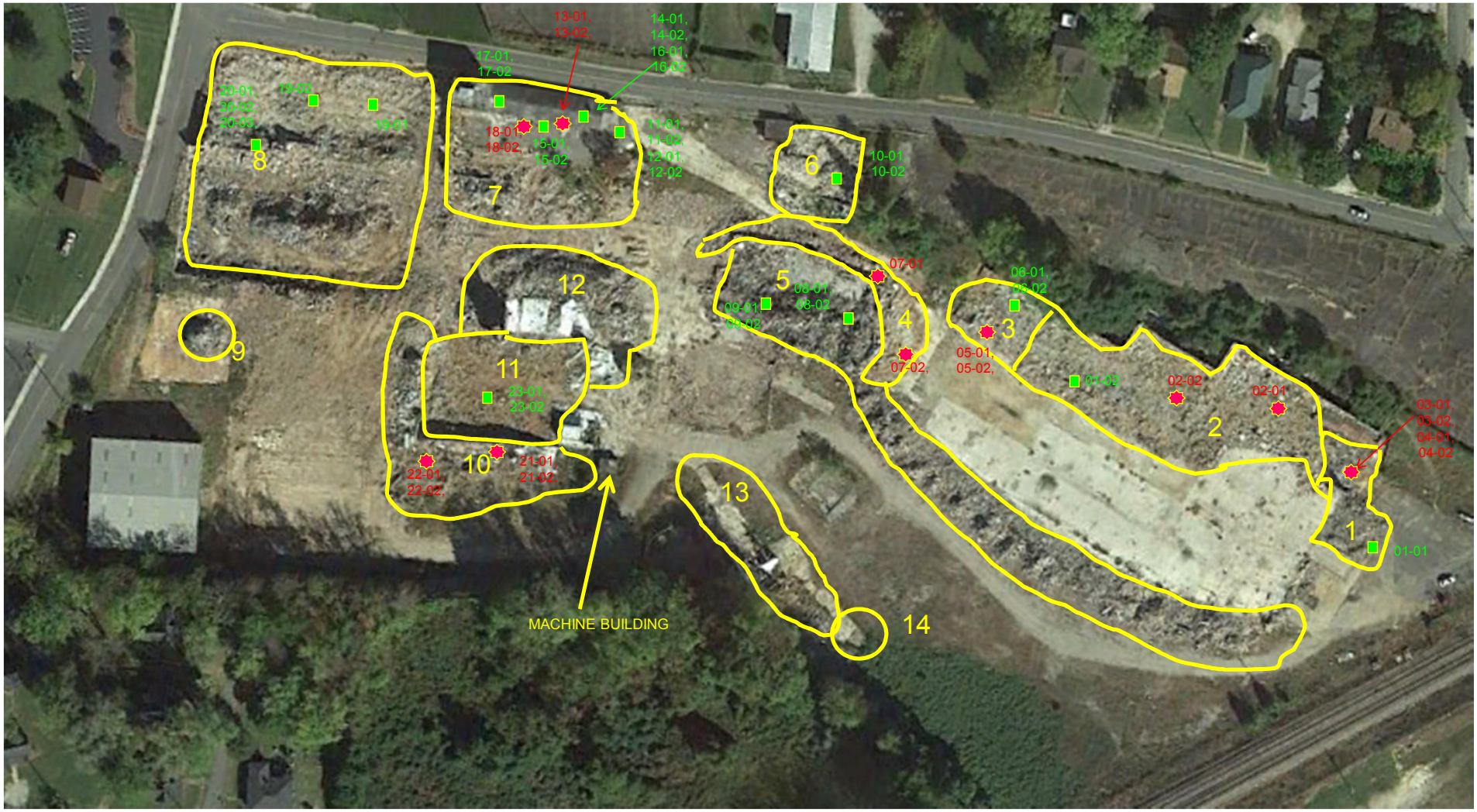
6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries. During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Figures



NORTH

LEGEND	DRAWING PROVIDED BY GOOGLE EARTH	**FIGURE 1** **ASBESTOS SAMPLE LOCATIONS** FORMER DREXEL FACILITY BLUE RIDGE AND CARSON STREETS MARION, MCDOWELL COUNTY, NORTH CAROLINA ECS PROJECT NO. 49-3978 B
Negative ACM Sample Location Positive ACM Sample Location		

Appendix II: Site Photographs



1 - Typical view of debris and remaining portions of structures located on the subject site



2 - Typical view of debris and remaining portions of structures located on the subject site



3 - Typical view of debris and remaining portions of structures located on the subject site



4 - Typical view of debris and remaining portions of structures located on the subject site



5 - Typical view of debris and remaining portions of structures located on the subject site



6 - Typical view of debris and remaining portions of structures located on the subject site



7 - View of remaining steel structure located on subject site



8 - View of the interior of the remaining steel structure located on the subject site



9 - View of interior of office structure located on the subject site



10 - View of interior of office structure located on the subject site



11 - View of asbestos bags (contents assumed positive for ACM) located on the interior of the office on the subject site



12 - View of asbestos bags (contents assumed positive for ACM) located on the interior of the



13 - View of air cell TSI (assumed positive for ACM) located in bags stored in the interior of the office located on the subject site



14 - View of grey 12" floor tile (negative for ACM) located in the front space of the office on the subject site



15 - View of black mastic on brick (positive for ACM) located in the debris piles located on the subject site



16 - View of black mastic on brick (positive for ACM) located in the debris piles located on the subject site



17 - View of black mastic on brick (positive for ACM) located in the debris piles located on the subject site



18 - View of 12" blue tile and yellow mastic (negative for ACM) and underlying 12" grey tile and black mastic (positive for ACM)



19 - View of built-up-roofing (negative for ACM) located in various debris piles on the subject site



20 - View of built-up-roofing (negative for ACM) located in various debris piles on the subject site



21 - View of roofing tar on wood (negative for ACM) located on various debris piles on the subject site



22 - View of cementitious panel (positive for ACM) located in various debris piles on the subject site



23 - View of exterior stucco (negative for ACM) located in debris pile #8 on the subject site



24 - View of exterior white paint (positive for LBP) located on the door of the fire protection shed located on the side of the office on the subject site



25 - View of cream yellow paint (positive for LBP) located on the door trim of the machine building on the subject site



26 - View of the interior of the machine building (paint on walls negative for LBP)



27 - View of yellow caution paint (positive for LBP) located on a portion of the floor slab near debris pile #2 on the subject site

Appendix III: Asbestos Bulk Sample Results

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel 49-3978-B

Lab Order ID: 1713458
Analysis ID: 1713458_PLM
Date Received: 6/23/2017
Date Reported: 6/29/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
01-01 - A *1713458PLM_1*	Roof asphalt, felt paper, foam, fiber material *tar*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
01-01 - B *1713458PLM_48*	Roof asphalt, felt paper, foam, fiber material *felt*	**None Detected**	**40% Fiber Glass** **20% Cellulose**	**40% Other**	Black Fibrous Heterogeneous Dissolved
01-01 - C *1713458PLM_49*	Roof asphalt, felt paper, foam, fiber material *foam*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
01-01 - D *1713458PLM_50*	Roof asphalt, felt paper, foam, fiber material *paper*	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Homogeneous Ashed
01-02 - A *1713458PLM_2*	Roof asphalt, felt paper, foam, fiber material *tar*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
01-02 - B *1713458PLM_51*	Roof asphalt, felt paper, foam, fiber material *felt*	**None Detected**	**40% Fiber Glass** **20% Cellulose**	**40% Other**	Black Fibrous Heterogeneous Dissolved
01-02 - C *1713458PLM_52*	Roof asphalt, felt paper, foam, fiber material *foam*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
01-02 - D *1713458PLM_53*	Roof asphalt, felt paper, foam, fiber material *paper*	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Homogeneous Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Megan Javonovich (89)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel 49-3978-B

Lab Order ID: 1713458
Analysis ID: 1713458_PLM
Date Received: 6/23/2017
Date Reported: 6/29/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
02-01 *1713458PLM_3*	Black mastic on brick	**4% Chrysotile**		**96% Other**	Black Non Fibrous Homogeneous Dissolved
02-02 *1713458PLM_4*	Black mastic on brick	**Not Analyzed**			
03-01 *1713458PLM_5*	Black mastic on brick	**10% Chrysotile**		**90% Other**	Black Non Fibrous Homogeneous Dissolved
03-02 *1713458PLM_6*	Black mastic on brick	**Not Analyzed**			
04-01 *1713458PLM_7*	Black mastic on brick	**10% Chrysotile**		**90% Other**	Black Non Fibrous Homogeneous Dissolved
04-02 *1713458PLM_8*	Black mastic on brick	**Not Analyzed**			
05-01 *1713458PLM_9*	Transite panel	**15% Chrysotile**		**85% Other**	Gray Non Fibrous Heterogeneous Crushed
05-02 *1713458PLM_10*	Transite panel	**Not Analyzed**			

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Megan Javonovich (89)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel 49-3978-B

Lab Order ID: 1713458
Analysis ID: 1713458_PLM
Date Received: 6/23/2017
Date Reported: 6/29/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-01 - A *1713458PLM_11*	12x12 grey floor tile *tile*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
06-01 - B *1713458PLM_54*	12x12 grey floor tile *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
06-02 - A *1713458PLM_12*	12x12 grey floor tile *tile*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
06-02 - B *1713458PLM_55*	12x12 grey floor tile *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
07-01 *1713458PLM_13*	Black mastic on brick	**15% Chrysotile**	**10% Cellulose**	**75% Other**	Black Fibrous Heterogeneous Dissolved
07-02 *1713458PLM_14*	Black mastic on brick	**Not Analyzed**			
08-01 *1713458PLM_15*	Black mastic on wood	**None Detected**	**20% Cellulose** **10% Synthetic Fibers**	**70% Other**	Black Fibrous Heterogeneous Dissolved
08-02 *1713458PLM_16*	Black mastic on wood	**None Detected**	**20% Cellulose** **10% Synthetic Fibers**	**70% Other**	Black Fibrous Heterogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
09-01 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_17	*tar*				Dissolved
09-01 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**30% Fiber Glass** **20% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_56	*felt*				Dissolved
09-01 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_57	*foam*				Ashed
09-01 - D	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**80% Cellulose** **10% Fiber Glass**	**10% Other**	Gray Fibrous Homogeneous
1713458PLM_58	*paper*				Ashed
09-02 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_18	*tar*				Dissolved
09-02 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**30% Fiber Glass** **20% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_59	*felt*				Dissolved
09-02 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_60	*foam*				Ashed
09-02 - D	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**80% Cellulose** **10% Fiber Glass**	**10% Other**	Gray Fibrous Homogeneous
1713458PLM_61	*paper*				Ashed

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P-F-002 r15 1/15/2018

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
10-01 - A *1713458PLM_19*	Roof asphalt, felt paper *tar*	**None Detected**		**80% Other** **20% Quartz**	Black Non Fibrous Heterogeneous Dissolved
10-01 - B *1713458PLM_62*	Roof asphalt, felt paper *felt*	**None Detected**	**40% Fiber Glass**	**50% Other** **10% Quartz**	Black Fibrous Heterogeneous Dissolved
10-02 - A *1713458PLM_20*	Roof asphalt, felt paper *tar*	**None Detected**		**80% Other** **20% Quartz**	Black Non Fibrous Heterogeneous Dissolved
10-02 - B *1713458PLM_63*	Roof asphalt, felt paper *felt*	**None Detected**	**40% Fiber Glass**	**50% Other** **10% Quartz**	Black Fibrous Heterogeneous Dissolved
11-01 - A *1713458PLM_21*	12x12 cream floor tile, black mastic *tile*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
11-01 - B *1713458PLM_64*	12x12 cream floor tile, black mastic *mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
11-02 - A *1713458PLM_22*	12x12 cream floor tile, black mastic *tile*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
11-02 - B *1713458PLM_65*	12x12 cream floor tile, black mastic *mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
12-01 *1713458PLM_23*	2x2 fissure ceiling tile	**None Detected**	**40% Cellulose** **30% Fiber Glass**	**20% Perlite** **10% Other**	Gray Fibrous Homogeneous Ashed
12-02 *1713458PLM_24*	2x2 fissure ceiling tile	**None Detected**	**40% Cellulose** **30% Fiber Glass**	**20% Perlite** **10% Other**	Gray Fibrous Homogeneous Ashed
13-01 - A *1713458PLM_25*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *blue tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
13-01 - B *1713458PLM_66*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *yellow mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
13-01 - C *1713458PLM_67*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *grey tile*	**5% Chrysotile**		**95% Other**	Gray Non Fibrous Homogeneous Dissolved
13-01 - D *1713458PLM_68*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *black mastic*	**6% Chrysotile**		**94% Other**	Black Non Fibrous Homogeneous Dissolved
13-02 - A *1713458PLM_26*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *blue tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
13-02 - B *1713458PLM_69*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *yellow mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
13-02 - C *1713458PLM_70*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *grey tile*	**Not Analyzed**			
13-02 - D *1713458PLM_71*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *black mastic*	**Not Analyzed**			
14-01 *1713458PLM_27*	2x4 fissure ceiling tile	**None Detected**	**40% Cellulose** **20% Fiber Glass**	**30% Perlite** **10% Other**	Gray Fibrous Homogeneous Ashed
14-02 *1713458PLM_28*	2x4 fissure ceiling tile	**None Detected**	**40% Cellulose** **20% Fiber Glass**	**30% Perlite** **10% Other**	Gray Fibrous Homogeneous Ashed
15-01 - A *1713458PLM_29*	Asphalt shingles, tar paper *shingle*	**None Detected**	**30% Fiber Glass**	**50% Other** **20% Quartz**	Black Fibrous Heterogeneous Dissolved
15-01 - B *1713458PLM_72*	Asphalt shingles, tar paper *felt*	**None Detected**	**60% Cellulose** **10% Synthetic Fibers**	**30% Other**	Black Fibrous Homogeneous Dissolved
15-02 - A *1713458PLM_30*	Asphalt shingles, tar paper *shingle*	**None Detected**	**30% Fiber Glass**	**50% Other** **20% Quartz**	Black Fibrous Heterogeneous Dissolved
15-02 - B *1713458PLM_73*	Asphalt shingles, tar paper *felt*	**None Detected**	**60% Cellulose** **10% Synthetic Fibers**	**30% Other**	Black Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
16-01 - A *1713458PLM_31*	4" blue cove base, tan mastic *cove base*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Ashed
16-01 - B *1713458PLM_74*	4" blue cove base, tan mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
16-02 - A *1713458PLM_32*	4" blue cove base, tan mastic *cove base*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Ashed
16-02 - B *1713458PLM_75*	4" blue cove base, tan mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
17-01 - A *1713458PLM_33*	12x12 teal floor tile, yellow mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
17-01 - B *1713458PLM_76*	12x12 teal floor tile, yellow mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
17-02 - A *1713458PLM_34*	12x12 teal floor tile, yellow mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
17-02 - B *1713458PLM_77*	12x12 teal floor tile, yellow mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
18-01 *1713458PLM_35*	Window glazing white	**2% Chrysotile**		**98% Other**	Gray Non Fibrous Homogeneous Crushed
18-02 *1713458PLM_36*	Window glazing white	**Not Analyzed**			
19-01 - A *1713458PLM_37*	Roof asphalt, felt paper, foam, fiber material *tar*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
19-01 - B *1713458PLM_78*	Roof asphalt, felt paper, foam, fiber material *felt*	**None Detected**	**50% Fiber Glass** **10% Cellulose**	**40% Other**	Black Fibrous Heterogeneous Dissolved
19-01 - C *1713458PLM_79*	Roof asphalt, felt paper, foam, fiber material *insulation*	**None Detected**	**60% Cellulose** **10% Fiber Glass**	**25% Perlite** **5% Other**	Gray Fibrous Homogeneous Ashed
19-01 - D *1713458PLM_80*	Roof asphalt, felt paper, foam, fiber material *paper*	**None Detected**	**80% Fiber Glass**	**20% Other**	White, Yellow Fibrous Heterogeneous Teased
19-02 - A *1713458PLM_38*	Roof asphalt, felt paper, foam, fiber material *tar*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
19-02 - B *1713458PLM_81*	Roof asphalt, felt paper, foam, fiber material *felt*	**None Detected**	**50% Fiber Glass** **10% Cellulose**	**40% Other**	Black Fibrous Heterogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
19-02 - C *1713458PLM_82*	Roof asphalt, felt paper, foam, fiber material *insulation*	**None Detected**	**60% Cellulose** **10% Fiber Glass**	**25% Perlite** **5% Other**	Gray Fibrous Homogeneous Ashed
19-02 - D *1713458PLM_83*	Roof asphalt, felt paper, foam, fiber material *paper*	**None Detected**	**80% Fiber Glass**	**20% Other**	White, Yellow Fibrous Heterogeneous Teased
20-01 *1713458PLM_39*	Stucco surfacing	**None Detected**		**70% Other** **30% Quartz**	Tan Non Fibrous Heterogeneous Crushed
20-02 *1713458PLM_40*	Stucco surfacing	**None Detected**		**70% Other** **30% Quartz**	Tan Non Fibrous Heterogeneous Crushed
20-03 *1713458PLM_41*	Stucco surfacing	**None Detected**		**70% Other** **30% Quartz**	Tan Non Fibrous Heterogeneous Crushed
21-01 *1713458PLM_42*	Black mastic on brick	**6% Chrysotile**		**94% Other**	Black Non Fibrous Homogeneous Dissolved
21-02 *1713458PLM_43*	Black mastic on brick	**Not Analyzed**			
22-01 *1713458PLM_44*	Transite panel	**25% Chrysotile**		**75% Other**	Gray Fibrous Homogeneous Teased

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
22-02	Transite panel	**Not Analyzed**			
1713458PLM_45					
23-01 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_46	*tar*				Dissolved
23-01 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**40% Fiber Glass** **10% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_84	*felt*				Dissolved
23-01 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_85	*foam*				Ashed
23-01 - D	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Homogeneous
1713458PLM_86	*paper*				Ashed
23-02 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_47	*tar*				Dissolved
23-02 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**40% Fiber Glass** **10% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_87	*felt*				Dissolved
23-02 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_88	*foam*				Ashed

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
23-02 - D	Roof asphalt, felt paper, foam, fiber material	None Detected	95% Cellulose	5% Other	Tan Fibrous Homogeneous
1713458PLM_89	*paper*				Ashed

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P-F-002 r15 1/15/2018

17/3458

Client:	ECS Southeast, LLP
Contact:	James Bevers
Address:	1900 Hendersonville Rd, Ste 10, Asheville
Phone:	828-665-2307
Fax:	
Email:	jbevers@ecslimited.com
Project:	Drexel 49-3978-B
Client Notes:	***POSITIVE STOP***
P.O. #.	[Enter P.O. # Here]
Date Submitted:	6/22/2017 0:00
Analysis:	PLM
TurnAroundTime:	5 day

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
01-01	Pile 1	Roof asphalt, felt paper, foam, fiber material	
01-02	Pile 2	Roof asphalt, felt paper, foam, fiber material	
02-01	Pile 2	Black mastic on brick	
02-02	Pile 2	Black mastic on brick	
03-01	Pile 1	Black mastic on brick	
03-02	Pile 1	Black mastic on brick	
04-01	Pile 1	Black mastic on brick	
04-02	Pile 1	Black mastic on brick	
05-01	Pile 3	Transite panel	
05-02	Pile 3	Transite panel	
06-01	Pile 3	12x12 grey floor tile	
06-02	Pile 3	12x12 grey floor tile	
07-01	Pile 4	Black mastic on brick	
07-02	Pile 4	Black mastic on brick	
08-01	Pile 5	Black mastic on wood	
08-02	Pile 5	Black mastic on wood	
09-01	Pile 5	Roof asphalt, felt paper, foam, fiber material	
09-02	Pile 5	Roof asphalt, felt paper, foam, fiber material	

6-23

Received By

Thomas w. Barnes

1713458

10-01	Pile 6	Roof asphalt, felt paper
10-02	Pile 6	Roof asphalt, felt paper
11-01	Office front	12x12 cream floor tile, black mastic
11-02	Office front	12x12 cream floor tile, black mastic
12-01	Office front	2x2 fissure ceiling tile
12-02	Office front	2x2 fissure ceiling tile
13-01	Office	12x12 blue floor tile, 12x12 grey floor tile, black mastic
13-02	Office	12x12 blue floor tile, 12x12 grey floor tile, black mastic
14-01	Office	2x4 fissure ceiling tile
14-02	Office	2x4 fissure ceiling tile
15-01	Office roof	Asphalt shingles, tar paper
15-02	Office roof	Asphalt shingles, tar paper
16-01	Office	4" blue cove base, tan mastic
16-02	Office	4" blue cove base, tan mastic
17-01	Office upper	12x12 teal floor tile, yellow mastic
17-02	Office upper	12x12 teal floor tile, yellow mastic
18-01	Office	Window glazing white
18-02	Office	Window glazing white
19-01	Pile 8	Roof asphalt, felt paper, foam, fiber material
19-02	Pile 8	Roof asphalt, felt paper, foam, fiber material
20-01	Pile 8	Stucco surfacing
20-02	Pile 8	Stucco surfacing
20-03	Pile 8	Stucco surfacing
21-01	Pile 10	Black mastic on brick
21-02	Pile 10	Black mastic on brick
22-01	Pile 10	Transite panel
22-02	Pile 10	Transite panel
23-01	Pile 11	Roof asphalt, felt paper, foam, fiber material
23-02	Pile 11	Roof asphalt, felt paper, foam, fiber material

>>

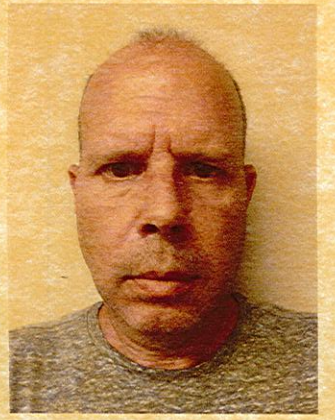
Received By

Thomas w. Barnes

Appendix IV: Certifications/ Licenses

United States Environmental Protection Agency

This is to certify that



Thomas W Barnes

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires October 13, 2019

LBP-I-I168789-1

Certification #

September 29, 2016

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division



North Carolina
Asbestos Accreditation

EXPIRATION			
01-31-2018			
DOB	SEX	HT	WT
02-22-1965	M	6'0"	180
CLASS		#	EXP
INSPECTOR		12983	01-18

Thomas W Barnes Iii
5 Rosemary Lane
Greenville, SC 29615

114437

Public Health
HEALTH AND HUMAN SERVICES

RICHARD O. BRAJER
Secretary

DANIEL STALEY
Director, Division of Public Health

May 23, 2016

James C Bevers
54 Beck Drive
Asheville, NC 28806

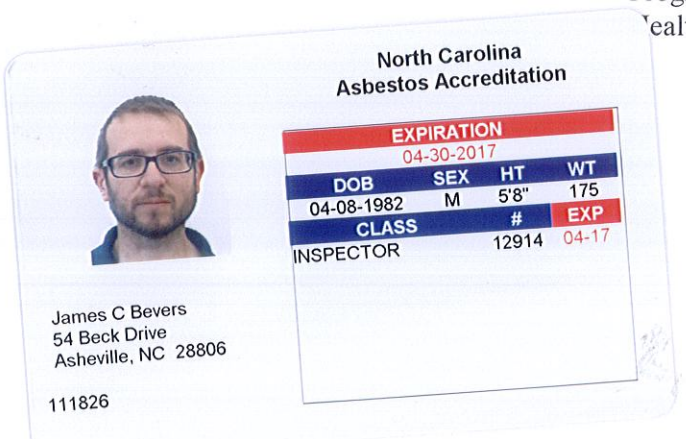
Dear Mr. Bevers:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12914, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on APRIL 30, 2017. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to April 30, 2017. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Ed Norman
Program Manager
Health Hazards Control Unit



Appendix V: XRF Lead-Based Paint Readings

Reading No	Time	Type	Duration	Units	Sequence	Component	Substrate	Side	Condition	Color	Site	Inspe	Room	Misc 1	Results	PbL	PbL Error
1108	6/21/2017 12:13	SHUTTER_CAL	197.16	cps	Final											0.27	0
1109	6/21/2017 12:15	PAINT	15.7	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Null	1	0.1
1110	6/21/2017 12:17	PAINT	20	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Positive	1	0.1
1111	6/21/2017 12:17	PAINT	5.29	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Negative	0.9	0.1
1112	6/21/2017 12:19	PAINT	20	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Positive	1	0.1
1113	6/21/2017 12:22	PAINT	2.56	mg / cm ^2	Final	CEILING	METAL	A	PEELING	RED	drexel mill	twb	fire shack		Negative	< LOD	0.03
1114	6/21/2017 12:22	PAINT	1.35	mg / cm ^2	Final	CEILING	METAL	A	PEELING	RED	drexel mill	twb	fire shack		Negative	< LOD	0.13
1115	6/21/2017 12:24	PAINT	3.47	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	2		Negative	< LOD	0.06
1116	6/21/2017 12:25	PAINT	5.72	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Negative	< LOD	0.03
1117	6/21/2017 12:26	PAINT	7.39	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Negative	< LOD	0.03
1118	6/21/2017 12:27	PAINT	3.44	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	grey	drexel mill	twb	2		Negative	< LOD	0.03
1119	6/21/2017 12:28	PAINT	1.2	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	YELLOW	drexel mill	twb	2		Positive	2.5	0.9
1120	6/21/2017 12:29	PAINT	3.31	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	2		Negative	< LOD	0.03
1121	6/21/2017 12:30	PAINT	6.64	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	GREEN	drexel mill	twb	2		Negative	< LOD	0.03
1122	6/21/2017 12:31	PAINT	4.22	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Null	< LOD	0.03
1123	6/21/2017 12:32	PAINT	3.62	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Negative	< LOD	0.03
1124	6/21/2017 12:33	PAINT	2.4	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	grey	drexel mill	twb	2		Null	< LOD	0.03
1125	6/21/2017 12:33	PAINT	3.47	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	grey	drexel mill	twb	2		Negative	< LOD	0.06
1126	6/21/2017 12:34	PAINT	3.45	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	YELLOW	drexel mill	twb	2		Negative	< LOD	0.03
1127	6/21/2017 12:36	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	4		Negative	< LOD	0.03
1128	6/21/2017 12:38	PAINT	0.75	mg / cm ^2	Final	COLUMN	WOOD	A	PEELING	orange	drexel mill	twb	4		Null	< LOD	0.14
1129	6/21/2017 12:38	PAINT	1.21	mg / cm ^2	Final	COLUMN	WOOD	A	PEELING	orange	drexel mill	twb	4		Negative	< LOD	0.05
1130	6/21/2017 12:38	PAINT	2.27	mg / cm ^2	Final	COLUMN	WOOD	A	PEELING	orange	drexel mill	twb	4		Negative	< LOD	0.1
1131	6/21/2017 12:39	PAINT	1.35	mg / cm ^2	Final	FLOOR	WOOD	A	PEELING	grey	drexel mill	twb	4		Negative	< LOD	0.06
1132	6/21/2017 12:40	PAINT	3.74	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	4		Null	< LOD	0.1
1133	6/21/2017 12:40	PAINT	5.12	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	4		Null	< LOD	0.03
1134	6/21/2017 12:41	PAINT	2.56	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	4		Null	< LOD	0.03
1135	6/21/2017 12:44	PAINT	14.45	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	6		Null	< LOD	0.03
1136	6/21/2017 12:44	PAINT	4.5	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	6		Negative	< LOD	0.03
1137	6/21/2017 12:45	PAINT	6.62	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	RED	drexel mill	twb	6		Null	< LOD	0.03
1138	6/21/2017 12:47	PAINT	3.29	mg / cm ^2	Final	DOOR	WOOD	A	PEELING	WHITE	drexel mill	twb	7		Positive	1.4	0.4
1139	6/21/2017 12:48	PAINT	3.46	mg / cm ^2	Final	DOOR	METAL	A	PEELING	BLUE	drexel mill	twb	7		Negative	0.09	0.06
1140	6/21/2017 12:49	PAINT	1.35	mg / cm ^2	Final	COLUMN	METAL	A	INTACT	YELLOW	drexel mill	twb	7		Negative	< LOD	0.03
1141	6/21/2017 12:50	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	A	INTACT	WHITE	drexel mill	twb	7	bath	Negative	< LOD	0.13
1142	6/21/2017 12:52	PAINT	1.35	mg / cm ^2	Final	WALL	CONCRETE	A	INTACT	YELLOW	drexel mill	twb	7		Negative	< LOD	0.05
1143	6/21/2017 12:52	PAINT	3.6	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	7		Negative	< LOD	0.03

1144	6/21/2017 12:54	PAINT	8.56	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	RED	drexel mill	twb	7	Negative	0.5	0.1
1145	6/21/2017 12:55	PAINT	3.33	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Negative	< LOD	0.07
1146	6/21/2017 12:56	PAINT	2.1	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Null	< LOD	0.25
1147	6/21/2017 12:56	PAINT	2.11	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Null	< LOD	0.04
1148	6/21/2017 12:56	PAINT	1.51	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Negative	< LOD	0.03
1149	6/21/2017 12:58	PAINT	0.3	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	BLUE	drexel mill	twb	12	Null	< LOD	0.08
1150	6/21/2017 12:58	PAINT	6.33	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	BLUE	drexel mill	twb	12	Negative	< LOD	0.03
1151	6/21/2017 12:59	PAINT	4.66	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	BLUE	drexel mill	twb	12	Negative	< LOD	0.03
1152	6/21/2017 13:01	PAINT	3.32	mg / cm ^2	Final	DOOR	WOOD	C	INTACT	YELLOW	drexel mill	twb	12	Positive	1.3	0.2
1153	6/21/2017 13:02	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	B	INTACT	YELLOW	drexel mill	twb	12	Negative	< LOD	0.03
1154	6/21/2017 13:02	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	B	INTACT	YELLOW	drexel mill	twb	12	Negative	< LOD	0.04
1155	6/21/2017 13:03	PAINT	2.71	mg / cm ^2	Final	DOOR	WOOD	B	INTACT	YELLOW	drexel mill	twb	12	Positive	1.5	0.4
1156	6/21/2017 13:05	PAINT	1.37	mg / cm ^2	Final	DOOR	WOOD	B	INTACT	YELLOW	drexel mill	twb	12	Negative	< LOD	0.03
1157	6/21/2017 13:10	PAINT	5.58	mg / cm ^2	Final			CALIBRATE			drexel mill	twb		Negative	0.9	0.1
1158	6/21/2017 13:12	PAINT	20	mg / cm ^2	Final			CALIBRATE			drexel mill	twb		Positive	1	0.1
1159	6/21/2017 13:13	PAINT	5.72	mg / cm ^2	Final			CALIBRATE			drexel mill	twb		Negative	0.9	0.1

Appendix VI: Lead Laboratory Analytical Results

Analysis for Lead Concentration in Paint Chips

by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel/49-3978-B

Lab Order ID: 1713457
Analysis ID: 1713457_PBP
Date Received: 6/23/2017
Date Reported: 6/30/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Mass *(g)*	Concentration *(ppm)*	Concentration *(% by weight)*
LBP-1 1713457PBP_1	Pile 1 - teal paint on brick	0.0853	< 47	**< 0.005%**
LBP-2 1713457PBP_2	Pile 3 - grey paint on concrete	0.0763	55	**0.006%**
LBP-3 1713457PBP_3	Pile 3 - yellow paint on concrete	0.0819	< 49	**< 0.005%**
LBP-4 1713457PBP_4	Pile 5 - orange paint on wood	0.0753	480	**0.047%**
LBP-5 1713457PBP_5	Pile 5 - grey paint on wood	0.1001	< 40.	**< 0.004%**
LBP-6 1713457PBP_6	Pile 5 - white paint on brick	0.0826	190	**0.019%**
LBP-7 1713457PBP_7	Office - cream paint on brick	0.0681	110	**0.011%**
LBP-8 1713457PBP_8	Exterior office - white paint on wood	0.0866	38000	**3.8%**
LBP-9 1713457PBP_9	Machine building - cream paint on wood	0.0510	79000	**7.9%**

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Daniel Olson (9)

Analyst

Laboratory Director

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 173457
Client Code: _____

Contact Information

Company Name:	ECS SOUTHEAST
Address:	1900 HENDERSONVILLE RD
	SUITE 10
	ASHEVILLE, NC 28803
Contact:	JIM BEVERS
Phone ☒:	828-665-2307
Fax ☐:	
Email ☒:	JBEVERS@ECSLIMITED.COM
PO Number:	
Project Name/Number:	DUKE / 49-3978-B

Billing/Invoice Information

Company:	SAME
Address:	
Contact:	
Phone ☐:	
Fax ☐:	
Email ☐:	

Lead Test Types

Paint Chips by Flame AA (PBP) ☒	Soil by Flame AA (PBS) ☐	Other ☐
Wipe by Flame AA (PBW) ☐	Air by Flame AA (PBA) ☐	

Turn Around Times

3 Hours	☐	72 Hours	☐
6 Hours	☐	96 Hours	☐
12 Hours	☐	120 Hours	☒
24 Hours	☐	144+ Hours	☐
48 Hours	☐		

Sample ID #	Description/Location	Volume/Area	Comments
LBP-1	PLG 1 - TEAL PAINT ON BRICK		
LBP-2	PLG 3 - GREY PAINT ON ~~BRICK~~ CONCRETE		
LBP-3	PLG 3 - YELLOW PAINT ON CONCRETE		
LBP-4	PLG 5 - ORANGE PAINT ON WOOD		
LBP-5	PLG 5 - GREY PAINT ON WOOD		
LBP-6	PLG 5 - WHITE PAINT ON BRICK		
LBP-7	OFFICE - CREAM PAINT ON BRICK		
LBP-8	EXTERIOR OFFICE - WHITE PAINT ON WOOD		
LBP-9	MACHINE BUILDING - CREAM PAINT ON WOOD		

Accepted ☑

Rejected ☐

Total Number of Samples 9

Relinquished by	Date/Time	Received by	Date/Time
	6/22/1600		6/23 9:30

May 1, 2018

Ms. Heather Cotton
Planning and Development Director
City of Marion
194 North Main Street
Marion, North Carolina 28752

Reference: Soil and Groundwater Assessment
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-3978-C

Dear Ms. Cotton:

ECS Southeast, LLP (ECS) is pleased to provide the City of Marion with the results of our Soil and Groundwater Assessment for the above referenced property. ECS' services were conducted in accordance with the services outlined in ECS Proposal 49-6510-PR2 dated February 1, 2018 and authorized on February 2, 2018. ECS appreciates the opportunity to provide our services to you. If there are questions regarding this report, or a need for further information, please contact us.

Respectfully submitted,

ECS SOUTHEAST, LLP

James C. Bevers, P.E.
Environmental Project Manager
jbevers@ecslimited.com
828-785-4179

John S. Lair, P.G.
Principal Geologist
jlair@ecslimited.com
910-726-3035

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Figure 3 Site Detail and On-Site Environmental Concerns
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1. PROJECT INFORMATION

The subject property is located at 70 Blue Ridge Street in Marion, McDowell County, North Carolina (Figures 1 and 2). The approximate 15.29 area subject property consists of an office building, an aluminum-clad steel frame building, a partially demolished former chemical storage building, and building debris from the remainder of the former facility.

A Phase I Environmental Site Assessment (ESA) report was completed for the subject property by Tetra Tech (Technical Direction Document No. TT-06-013, dated March 29, 2016). The Phase I ESA identified several recognized environmental conditions (RECs) from both on-site and off-site environmental concerns. Following is a summary of the RECs.

On-Site Environmental Concerns

- The presence of fuel oil underground storage tanks (USTs);
- The presence of an oil-water separator (OWS);
- The presence of additional USTs and/or former aboveground storage tanks (ASTs);
- The aluminum-clad steel frame building with numerous 55-gallon drums and smaller containers; and,
- Another on-site building that contained multiple 55-gallon drums located along Blue Ridge Street, east of the office building.

Off-Site Environmental Concerns

- Willwear Hosiery Manufacturing Company, Inc., 360 Blue Ridge Street;
- McDowell County Millwork, 426 West Henderson Street;
- Unlimited Finishings, 512 Carson Street;
- Rock Tenn Marion Folding, 33 Burgin Street;
- Ideal Cleaners, 133 West Henderson Street;
- Library-Main Branch, 100 West Court Street;
- City Food, North Main Street & Fort Street; and
- McDowell Cement, 101 South Garden Street

The locations of the on-site and off-site environmental concerns are depicted on Figures 2 and 3.

ECS conducted file reviews associated with the subject property as well as surrounding properties. In addition, ECS conducted a visit to the subject property to observe site conditions on March 28, 2017 and to gain insight regarding locations of former and current USTs, ASTs, drums, and other environmental concerns. The following is a summary of the findings of our file review.

On-Site Environmental Concerns

USTs

During the visit to the subject property, ECS observed evidence of four USTs located on the central portion of the subject property. The USTs were located beneath a concrete pad surrounded by chain link fencing. ECS observed product piping from the USTs running in a northwestern direction to an unknown location. ECS has not obtained additional information regarding size or installation date(s) of the USTs or plans showing the location of the product piping. ECS recommends soil and groundwater assessment in the vicinity of the USTs. The location of the USTs is depicted on Figure 3.

File reviews conducted for the subject property identified several USTs which have been removed. A summary of the findings is as follows:

According to an Underground Storage Tank Closure Report completed by Shield Environmental Associates, Inc. (Shield, dated April 23, 1993), there were four USTs removed from the subject property. The USTs consisted of one 1,000-gallon diesel fuel UST, one 6,000-gallon lacquer thinner UST, one 8,000-gallon naptha UST, and one 550-gallon gasoline UST. The former locations of the USTs are depicted on Figure 3. The diesel fuel, lacquer thinner, and naptha USTs were removed with clean closures.

Upon removal of the gasoline UST, odors were identified in the soil indicative of a release and approximately 85 cubic yards of impacted soil was subsequently removed. Following soil removal associated with the gasoline UST, two soil samples were collected from the base of the excavation and analyzed for total petroleum hydrocarbon (TPH) gasoline range organics (GRO). Laboratory analysis detected concentrations of TPH GRO above the North Carolina Action Level. The report indicates that Shield was conducting additional soil and groundwater assessment activities in the vicinity of the gasoline UST excavation. However, the report associated with the soil and groundwater assessment was not available for review.

Additional assessment was conducted in association with the gasoline UST by ERM-Southeast, Inc. (ERM) in 1995 and 1996. Several monitoring wells were installed in the vicinity of the former gasoline UST. Free product was identified in one monitoring well. Total benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert butyl ether (MTBE) were detected in several of the monitoring wells. As part of this assessment, a soil vapor extraction/air sparging (SVE/AS) groundwater remediation system was installed at the subject property. Shortly after commencing the assessment, it was concluded that free product was due to a release from the off-site Willwear property located to the north of the subject property. During these assessments, it was determined that the direction of groundwater flow was toward the south-southeast across the site.

In 1998, the North Carolina Division of Environmental Quality (NCDEQ) provided a Notice of No Further Action (NFA) letter for the incident associated with the gasoline UST. The NFA was provided based on a report which showed soil contamination was below the industrial/commercial maximum soil contamination concentrations (MSCCs) and groundwater contamination was below the gross contamination levels (GCLs). However, the NFA noted that groundwater was not suitable for use as a water supply. Following the closure of the incident, the monitoring wells and SVE/AS groundwater remediation system were abandoned.

Oil-Water Separator
During the visit to the subject property, ECS observed evidence of an OWS in the vicinity of the USTs. ECS has not obtained additional information regarding the OWS. The location of the OWS is depicted on Figure 3.

ASTs
On a site plan provided by Ms. Heather Cotton with the City of Marion, a 3,000-gallon solvent tank was identified on the eastern side of the chemical storage building. ECS assumes this to be an AST. The former location of the solvent AST is depicted on Figure 3. ECS has not obtained additional information regarding the presence or closure of ASTs.

55-Gallon Drums
During the visit to the subject property, ECS observed 55-gallon drums within an aluminum-clad, steel frame building located on the southwestern corner of the subject property and in the vicinity of the chemical storage building located along Blue Ridge Street, east of the office building. ECS also observed staining at several locations within the aluminum-clad steel frame building. The locations of the observed drums and staining are depicted on Figure 3.

The ERM reports note a drum rack located between the former gasoline UST and the chemical storage building. ECS has not obtained additional information regarding the presence of specific chemicals stored at this location. The location of the former drum rack is depicted on Figure 3.

The facility previously located at the subject property has received several notices of violations (NOVs) during its operation. The NOVs include lack of training documentation, open drums, storage of hazardous waste longer than 90 days, and burning/incinerating hazardous materials without re-notification of burning/incinerating activities. The facility included the generation of xylene, acetone, methanol, toluene, methyl ethyl ketone, waste oil, and naptha. The inspection reports note drum storage in diked areas located outside the pump house and outside the boiler room. Other drum storage areas include in a small finish room, in a repair/rework room, in a main finish room, and a warehouse.

One specific NOV, dated August 24, 1994 provided by the NCDEQ, identified three areas of concern. One area included drums of unknown waste chemicals, some of which were open and in poor condition. A second area included drums of used oil with releases on a storage pad, the surrounding ground, and into a storm drain. The third area included drums of waste glue which were disposed by being burned. Based on hand written notes and sketches, it appears that the first area is located south of the office building along Blue Ridge Street. However, the locations of the additional two areas noted in the NOV could not be identified. A follow-up inspection conducted on September 28, 1994 indicated the facility is cleaning up the areas, but the NOVs were not specifically addressed. A re-inspection conducted on December 12, 1994 indicated the containers located at the loading dock, area 1, had been removed, the oil storage pad, area 2, was covered, diked, and included a storage rack for drums, and soil was sampled in the burning/incinerating area, area 3, which indicated that there were no hazardous constituents. The location of the former drum storage is depicted on Figure 3.

Other
According to a Soil Assessment Report completed by Shield on February 1, 1994, reprocessed #5 fuel oil was stored in a UST; however, the former location of this UST is unknown. At some point in the past, the #5 fuel oil gelatinized in the UST. The fuel oil was removed from the UST and transported to two trenches located on the southeastern portion of the subject property. Each trench measured approximately 20 feet long, 10 feet wide, and 3 feet deep. Prior to placing the fuel oil into the trenches, the trenches were lined with polyethylene sheeting. The fuel oil was then mixed with sawdust and sand and placed in the lined trenches. The mixture was then covered with a thin layer of soil. The location of the burial area is identified on Figure 3. The report indicates that soil samples were collected in the vicinity of the burial area and laboratory analysis detected elevated concentrations of oil and grease compounds.

Upon notification of the results to the NCDEQ, the NCDEQ recommended additional soil sampling beneath each of the trenches and the installation and sampling of a monitoring well. Additional reports regarding this sampling were unavailable for review. However, a letter regarding the review of the Soil Excavation Report from the NCDEQ dated May 22, 1995 was available for review. The letter indicates that soil contaminated by the fuel oil release has been removed and thermally treated and the remaining soil is below the allowable limit of 250 parts per million for oil and grease. The letter also indicates that the groundwater obtained from the monitoring well downgradient of the excavation displayed concentrations of tentatively identified compounds (TICs). The monitoring well was to be scheduled for regular sampling. However, a follow-up letter from the NCDEQ dated May 24, 1995 indicates that additional sampling of the monitoring well will not be required due to the lack of violations of groundwater standards. The NCDEQ provided NFA for the incident. The location of the fuel oil burial is depicted on Figure 3.

Off-Site Environmental Concerns

ECS concluded that the majority of the off-site environmental concerns identified in the Phase I ESA completed by Tetra Tech are not considered to be RECs due to topographic gradient relative to the subject property and/or distance from the subject property. However, the Willwear Hosiery Manufacturing Company, Inc. remains an environmental concern. Information regarding the off-site facility is as follows.

Willwear Hosiery Manufacturing Company, Inc.
The Willwear Hosiery Manufacturing Company, Inc. (Willwear) is addressed as 360 Blue Ridge Street and located on the adjoining property to the north, across Blue Ridge Street, and topographically upgradient to the site. According to an Abbreviated History for Willwear, a release of approximately 2,000 gallons of heating oil occurred on January 21, 1994. The release occurred over a 24-hour period.

According to a Closure Report dated April 10, 1995 and completed by Alpha Environmental Sciences, Inc. (Alpha), an 8,000-gallon UST and a 550-gallon AST were removed. Laboratory analysis of the soil sampling beneath the UST did not detect TPH diesel range organics (DRO) or GRO contamination. The two tanks were replaced with an 8,000-gallon AST. An additional Soil Remediation Report dated May 8, 1995 and completed by Alpha indicated approximately 294 tons of contaminated soil was removed in the vicinity of the former 550-gallon AST where the release occurred. The soil was treated on-site, analyzed, and used as fill material.

As mentioned in ERM reports, it was suspected that the free product identified on the subject property was due to the release from the Willwear property. There was also free product seepage observed at the base of the retaining wall located adjacent to the south wall of the chemical storage building. To assist with delineating this, Alpha proposed to install five monitoring wells, four of which would be installed on the subject property. The request for access to the subject property for the installation of the monitoring wells was denied. The approximate location of the reported free product seepage is depicted on Figure 3.

In lieu of installing the monitoring wells on the subject property, Alpha installed three monitoring wells on the Willwear property. According to a Request for Closure dated August 11, 1999 and completed by Alpha, sampling of the monitoring wells was conducted in August 1998, March 1999, and July 1999. Alpha requested a closure of the incident due to analytical results showing concentrations of constituents below their respective North Carolina Groundwater Quality Standards (NC2LGWQS). The incident has not been closed due to the lack of off-site data.

In an effort to determine if the site has been adversely impacted by the RECs identified during the Phase I ESA, ECS was contracted to conduct an assessment of the subject property. Project information is based on correspondence between Ms. Heather Cotton with the City of Marion and Mr. James Bevers with ECS and the previously cited documents.

2. SCOPE OF SERVICES

2.1 Introduction to Scope of Work

The soil and groundwater assessment consisted of collecting soil samples using a Geoprobe® drill rig using direct push techniques and installing monitoring wells using a drill rig using hollow stem augers. The scope of work was completed in accordance with the Work Plan for Initial Assessment Activities, dated December 8, 2017 and approved by the North Carolina Brownfields Program. The subcontractor used for this project was South Atlantic Environmental Drilling and Construction Company (SAEDACCO). Photographs of field activities are included in Appendix A.

2.2 Monitoring Well Construction Permit Procurement

Prior to the conducting the field activities, ECS procured a monitoring well construction permit from the NCDEQ. The permit is provided in Appendix B.

2.3 Public Utility Clearance

Prior to commencing with field activities, ECS contacted North Carolina 811 to locate/mark public utilities at the site. Required separation distances between subsurface activities and marked utilities (typically 30-inches) were maintained during the field activities.

2.4 Health and Safety Plan

As part of this assessment, ECS prepared a site-specific health and safety plan (HASP) for the site. The HASP documented the known or suspected hazards, applicable personal protective equipment (PPE) of site personnel, and emergency response procedures. Prior to

commencing with field activities, ECS and its subcontractors and applicable site personnel reviewed the site-specific HASP. A copy of the HASP review confirmation sheet is included in Appendix C.

2.5 Geoprobe® Drilling Services

Between February 6, 2018 and February 8, 2018 soil borings were advanced at the subject property using a Geoprobe® drill rig. The Geoprobe® consists of a hydraulic jack mounted on an all-terrain vehicle (ATV). The Geoprobe® is capable of driving various forms of groundwater, soil, and soil-gas sampling probes into the ground to depths equivalent of auger refusal.

2.6 Geoprobe® Soil Borings

A total of 21 soil borings were advanced in various locations throughout the subject property. The locations of the soil borings are depicted on Figure 4. Each soil boring was advanced by hydraulically driving a four-foot long, 1.5-inch soil sampling probe into the soil. The soil borings ranged in depth from 8 feet below the ground surface (bgs) to 38 feet bgs. Prior to advancing each boring, the down hole equipment and Geoprobe® drill rig were decontaminated utilizing a high pressure steam cleaner that utilized municipal water. The down hole equipment and drill rig were decontaminated to prevent cross-contamination between boring locations. The soil sampling probe is lined with a disposable clear plastic tube, which is replaced with each four-foot interval. After the probe is driven, the clear plastic tube filled with soil is removed from the probe. The clear plastic tube is then cut open to remove the soil. ECS visually classified the soils collected from each boring. Boring log, which include descriptions of the soils encountered, were prepared for each boring and are included in Appendix D. Upon completion, each boring was properly abandoned.

2.7 Photoionization Detector

The soil samples collected in the field were transferred into new, clean resealable bags (half full), and the bags placed in a warm location. Approximately ten minutes after the time of collection, each bag was opened slightly and the probe of a Rae Systems Mini Rae 3000 photoionization detector (PID) was inserted, and the bag immediately resealed using finger pressure. The meter of the PID was monitored and the reading recorded. The PID malfunctioned following collecting readings for soil samples collected from soil boring GP-16. Therefore, PID readings were not obtained for samples collected from soil borings GP-17 through GP-21. The recorded PID responses are presented on Table 1 and the boring logs included in Appendix D.

2.8 Background Soil Sampling

In an effort to determine naturally occurring concentrations of metals in site soils, ECS collected two grab soil samples soil borings GP-20 and GP-21 from 0 feet to 2 feet bgs, located in the parking lot on the northeastern portion of the subject property. This area of the subject property is believed to be away from historic facility operations.

2.9 Auger Drilling

Between February 5, 2018 and February 8, 2018, a total of twelve soil borings were advanced in various locations throughout the subject property. The locations of the soil borings are depicted on Figure 5. The soil borings were drilled utilizing a drill rig equipped to drill using hollow-stem auger drilling techniques. The soil borings ranged in depth from 13 feet bgs to 38 feet bgs. Drilling with hollow-stem augers involves rotating a continuous stem of hollow-stem augers into the ground. As drilling advances, the soil cuttings are removed by the rotating auger. Prior to advancing each boring, the down hole equipment and drill rig were decontaminated similar to the process associated with the Geoprobe® drill rig. Boring logs, which include descriptions of the soils encountered, were prepared for each boring and are included in Appendix D.

2.10 Type II Monitoring Well Installation

Type II monitoring wells were installed in the twelve augered borings discussed above. The Type II wells were constructed with two-inch I.D. Schedule 40 PVC flush-threaded casing and screen. The PVC screen and casing was lowered into the open borehole. A 10-foot length of slotted well screen with machined 0.010-inch slot widths and a threaded bottom plug were installed at the bottom of the boreholes. The screens were installed to a depth such that the screened interval intersected the estimated groundwater surface as encountered during drilling activities. A solid section of PVC casing was placed above the screened interval and extended to a point just below the ground surface. The annular space around each well was filled with a washed and graded medium sand to approximately one to two feet above the top of the screen.

A one-half-foot to two-foot thick seal of bentonite pellets was placed immediately above the sand pack. After placement in the well, the bentonite pellets were allowed to hydrate. After hydrating the bentonite pellets, a bentonite/neat cement mixture was poured down the borehole to fill the annular space from the bentonite seal to the ground surface. The top of each well casing was equipped with a lockable, water-tight well plug. A flush-mounted protective steel cover was installed over the majority of the wells. Monitoring well MW-5 was equipped with a stick up cover due to ground conditions. Monitoring well construction diagrams were prepared for the monitoring wells, which are included on the boring logs included in Appendix D. A well construction record provided by SAEDACCO is included in Appendix B.

2.11 Groundwater from Monitoring Wells

Between February 14, 2018 and February 16, 2018, the monitoring wells were purged by removing at least three well volumes or until dryness twice. After the purging was completed, groundwater samples were collected from the wells. Purging and sampling was accomplished using a new disposable polypropylene bailer or a peristaltic pump and tubing. Immediately after collection, the groundwater samples were transferred into sample containers provided by the laboratory.

2.12 Quality Control Sampling

Trip Blanks
A total of eight laboratory prepared trip blank samples (T-1 through T-8) were included with the samples. One trip blank was placed in each cooler to verify that the collected soil and groundwater samples were not subject to cross contamination during shipment.

Equipment Blanks
Four equipment blank samples (R-1 through R-4) were collected during soil sampling and monitoring well soil boring activities. The equipment blank samples were collected by pouring laboratory prepared deionized water across the decontaminated augers used to drill soil borings and into laboratory prepared containers. The equipment blank samples were collected to verify if the decontamination procedures were sufficient to remove residual contaminants from the sampling equipment.

Duplicate Samples
Four duplicate soil samples (GP-2D, GP-7D, GP-17D, and GP-20D) and three duplicate groundwater samples (MW-1D, MW-3D, and MW-7D) were collected while sampling their respective soil borings and monitoring wells. The results of the duplicate samples are compared with the results of their respective samples.

2.13 Sample Preparation and Submittal

The soil and groundwater samples were placed into laboratory prepared containers. The sample containers were labeled with ECS project number, sample identification, sample date and time, and requested analytical analysis. The containers were placed into protective packaging material and placed into a cooler with ice to maintain the samples at approximately 4° Celsius (C°). The samples were submitted to Pace Analytical Services, LLC (Pace) located in Asheville, North Carolina (North Carolina Certification # 5342).

The majority of the soil samples were submitted for chemical analysis for volatile organic compounds (VOCs) plus 1,4-dioxane and semi-volatile organic compounds (SVOCs) using EPA Methods 8260 and 8270, respectively, and total RCRA metals using EPA Method 6010. The background soil samples were submitted for chemical analysis for total RCRA metals plus hexavalent chromium using EPA Method 6010. The groundwater samples were submitted for chemical analysis for VOCs plus 1,4-dioxane and SVOCs using EPA Methods 8260 and 8270, respectively, and total RCRA metals using EPA Method 6010. The trip blank samples were analyzed for VOCs using EPA Method 8260. The equipment blank samples were analyzed for VOCs plus 1,4-dioxane and SVOCs using EPA Methods 8260 and 8270, respectively, and total RCRA metals using EPA Method 6010. ECS maintained proper chain-of-custody (COC) procedures throughout the sample collection and transportation process. Copies of the COCs are included in Appendix E.

2.14 Well Survey

After installation of the monitoring wells, the monitoring wells were surveyed by ECS using a transit and relative elevation in feet above mean sea levels (msl) to allow the calculation of groundwater flow direction based on groundwater measurements collected with a water level indicator after allowing water levels to stabilize. Static groundwater depths ranged from 1.73 feet below the top of casing (btoc) in monitoring well MW-6 to 32.43 feet btoc in monitoring well MW-11. The majority of the static groundwater depths were within the screen zones. However, the static groundwater level within monitoring well MW-6 was above the screen due to the shallow groundwater level at this location.

The monitoring wells surveyed were positioned adequately to determine groundwater flow direction. Groundwater flow was determined to be generally to the east-southeast as shown on Figure 6. The groundwater flow direction is generally consistent with the surface topography depicted on the topographic map provided on Figure 1. A summary of the monitoring well construction data and survey elevations are included on Table 2.

3. RESULTS

3.1 Summary of Soil Sample Results

Laboratory analysis of soil samples GP-6, GP-8, GP-11, and GP-19 detected various VOCs at concentrations above laboratory detection limits, but below the Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs). P-isopropyltoluene and naphthalene were detected at concentrations above their respective IHSB Protection of Groundwater PSRGs, but below their respective IHSB Residential and Industrial/Commercial Health Based PSRGs in soil sample GP-6.

Laboratory analysis of soil samples GP-5, GP-6, GP-8, and GP-11 detected various SVOCs at concentrations above laboratory detection limits, but below their respective IHSB PSRGs. Benzo(a)anthracene was detected above its IHSB Protection of Groundwater PSRG, but below their respective IHSB Residential and Industrial/Commercial Health Based PSRG in soil sample GP-5. 1-Methylnaphthalene, 2-methylnaphthalene, and naphthalene were detected at concentrations above their respective IHSB Protection of Groundwater PSRGs, but below their respective IHSB Residential and Industrial/Commercial Health Based PSRGs in soil sample GP-6.

Laboratory analysis of each soil sample detected various metals at concentrations above laboratory detection limits, but below their respective IHSB PSRGs. Arsenic was detected at concentrations above its IHSB Protection of Groundwater PSRG in soil samples GP-7, GP-7D, GP-8, and GP-19, above its IHSB Residential Health Based PSRG in each of the soil samples, and above its IHSB Industrial/Commercial Health Based PSRG in soil samples GP-7, GP-7D, GP-8, GP-11, GP-14, and GP-19. Chromium was detected at concentrations above its IHSB Protection of Groundwater, Residential Health Based, and Industrial/Commercial Health Based PSRGs in each of the soil samples. Selenium was detected at concentrations above its IHSB Protection of Groundwater PSRG in soil samples GP-1 through GP-6 and GP-12 through GP-16, but below its IHSB Residential and Industrial/Commercial Health Based PSRGs.

Analysis of background soil samples GP-20, GP-20D, and GP-21 also detected several metals above laboratory detection limits. Arsenic was detected at a concentration above the IHSB Protection of Groundwater and Industrial/Commercial Health Based PSRGs in soil sample GP-20 and at concentrations above the IHSB Residential Health Based PSRG in the three soil samples. Chromium was detected at concentrations above its IHSB Protection of Groundwater, Residential Health Based, and Industrial/Commercial Health Based PSRGs in the three soil samples. Hexavalent chromium was not detected above laboratory detection limits in these samples. Selenium was detected at concentrations above its IHSB Protection of Groundwater PSRG in soil samples GP-20D and GP-21.

3.2 Summary of Groundwater Sample Results

Laboratory analysis of groundwater samples MW-1, MW-1D, MW-2, MW-5, MW-6, and MW-9 detected various VOCs at concentrations above laboratory detection limits, but below their respective NC2LGWQSs. Benzene, ethylbenzene, naphthalene, toluene, and total xylenes were detected at concentrations above their respective NC2LGWQSs, but below their applicable Gross Contamination Levels (GCLs) in groundwater sample MW-5.

Laboratory analysis of groundwater samples MW-2 and MW-5 detected various SVOCs at concentrations above laboratory detection limits, but below their respective NC2LGWQSs. 1-Methylnaphthalene, 2-methylnaphthalene, and naphthalene were detected at concentrations above their respective NC2LGWQSs, but below their applicable GCLs in groundwater sample MW-5.

Laboratory analysis of each groundwater sample detected various metals at concentrations above laboratory detection limits, but below their respective NC2LGWQSs. Arsenic, barium, chromium, and lead were detected at concentrations above their respective NC2LGWQSs in groundwater samples MW-2, MW-8, and MW-11. Barium and chromium were detected at concentrations above their NC2LGWQSs in groundwater sample MW-12. The concentrations did not exceed their applicable GCLs.

3.3 Summary of Trip and Equipment Blank Results

Laboratory analysis of the trip blank water samples did not detect VOCs at concentrations above laboratory detection limits. Laboratory analysis of equipment blank water samples did not detect VOCs, SVOCs, or metals above laboratory detection limits.

Summaries of the laboratory analytical soil and groundwater results are included in Tables 3 and 4. The laboratory data sheets are included in Appendix E.

4. CONCLUSIONS

Based on the results of the soil and groundwater assessment, ECS concludes the following:

- A total of 21 soil borings were advanced for the collection of soil samples and a total of 12 permanent monitoring wells were installed for the collection of groundwater samples. The soil borings and monitoring wells were placed to assess previously identified potential environmental concerns.

- Laboratory analysis of soil sample GP-5, which was collected in the vicinity of the USTs and OWS located on the central portion of the subject property, detected several petroleum compounds. Benzo(a)anthracene was detected above its IHSB Protection of Groundwater PSRG, but below its IHSB Residential and Industrial/Commercial Health Based PSRGs. ECS concludes that a release(s) from the USTs and/or OWS has occurred.

- Laboratory analysis of soil sample GP-6, which was collected in the vicinity of drums and staining within the aluminum-clad steel frame building located on the southwestern portion of the subject property, detected several petroleum compounds. P-isopropyltoluene, naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene were detected at concentrations above their respective IHSB Protection of Groundwater PSRGs, but below its IHSB Residential and Industrial/Commercial Health Based PSRGs. ECS concludes that spills from drums within the building have impacted the soil beneath the building.

- Laboratory analysis of the soil samples detected several elevated concentrations of arsenic, chromium, and selenium. Analysis of background soil samples GP-20, GP-20D, and GP-21, collected from the northeastern portion of the subject property, detected arsenic, chromium, and selenium at similar concentrations as the samples collected on the remainder of the subject property. However, arsenic was detected in soil samples GP-7D and GP-8 at concentrations over 2.5 and 8 times the highest background soil sample concentration. These soil samples were collected from soil borings located within and in the vicinity of the aluminum-clad building located on the southwestern portion of the subject property. Chromium was detected in soil sample GP-19 at a concentration over 6 times the highest background soil sample concentration. This soil sample was collected from the soil boring on the former building pad located on the eastern portion of the subject property. These elevated concentrations are likely due to activities previously conducted at the former facility.

- Laboratory analysis of groundwater samples MW-5, which was collected on the northern portion of the subject property, downgradient of the former UST and SVE/AS system and former Willwear Hosiery Manufacturing Company, Inc., detected several petroleum compounds. Benzene, ethylbenzene, naphthalene, toluene, total xylenes, 1-methylnaphthalene, and 2-methylnaphthalene were detected at concentrations above their respective NC2LGWQSs, but below their applicable GCLs. ECS concludes that remaining contamination is present from the former UST and/or the prior release from the Willwear Hosiery Manufacturing Company, Inc.

- The horizontal and verticial extent of contamination beneath the site has not been defined. Additional assessment would be necessary to determine the extent of impacts beneath the site.

5. RECOMMENDATIONS

Based on the conclusions of the soil and groundwater assessment, ECS recommends the following:

- ECS recommends the USTs and OWS be removed to determine the extent of contamination from a potential release.

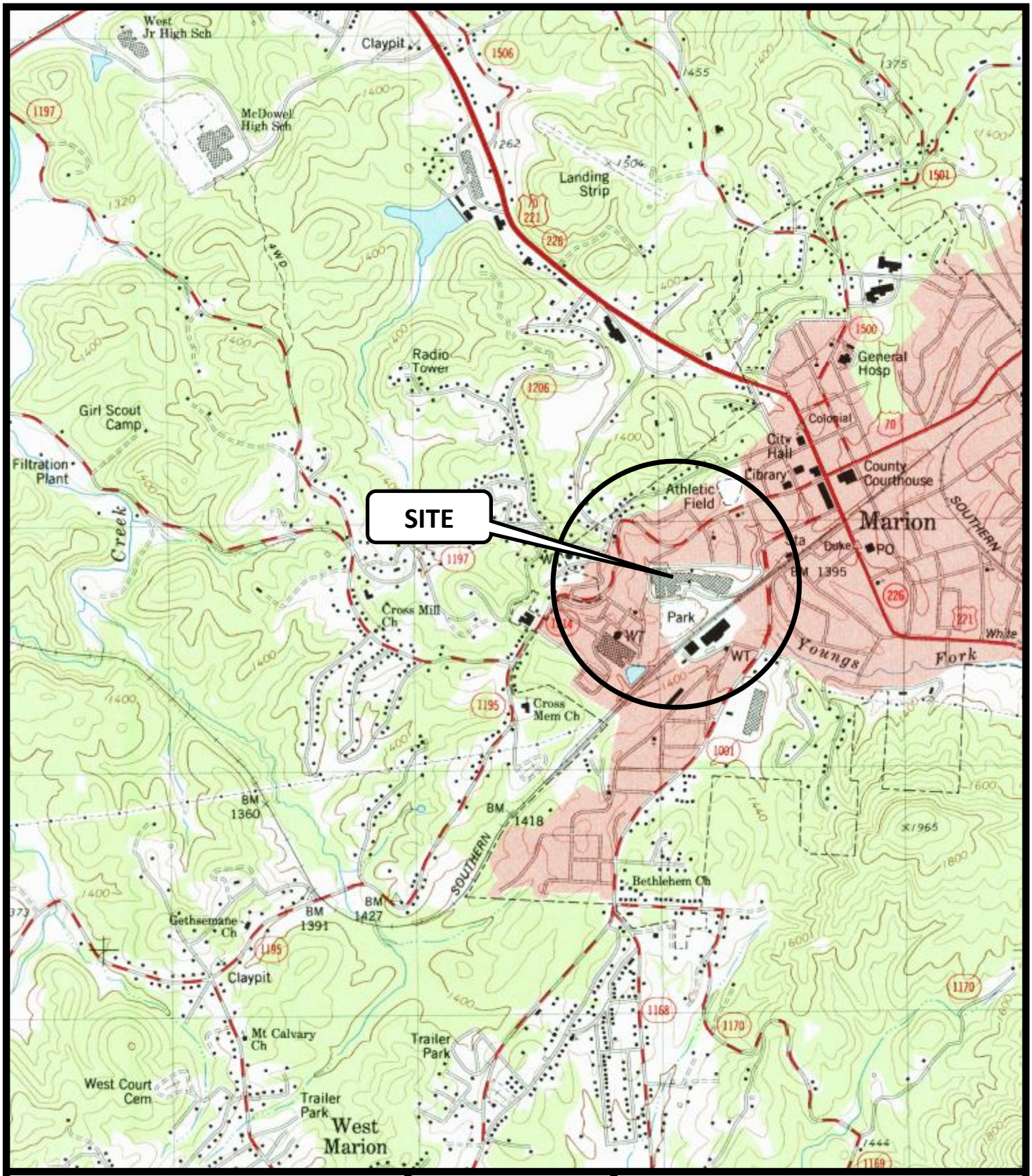
- ECS recommends that the subject property be entered into the North Carolina Brownfields Program. The entrance of the site in the North Carolina Brownfields Program will aid in managing the contamination identified during this assessment.

- ECS recommends that the current property owner be notified and that they submit a copy of the report to the North Carolina Brownfields Program for their review.

6. QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in soil and groundwater assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities. This report was prepared for the express use of the City of Marion. Use of this report by other individuals or companies implies their acceptance of the General Conditions of Service of the original contract.

FIGURES



SOURCE:

USGS TOPOGRAPHIC MAP
MARION WEST, NORTH CAROLINA QUADRANGLE
DATED 1985

SCALE: 1" = 2,000'

FIGURE 1
SITE LOCATION MAP

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-C



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 500 FEET

FIGURE 2
AERIAL MAP & OFF-SITE ENVIRONMENTAL CONCERNS
FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-C



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 3
SITE DETAIL MAP & ON-SITE ENVIRONMENTAL CONCERNS
FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-C



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 4
SOIL SAMPLE LOCATION MAP

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-C



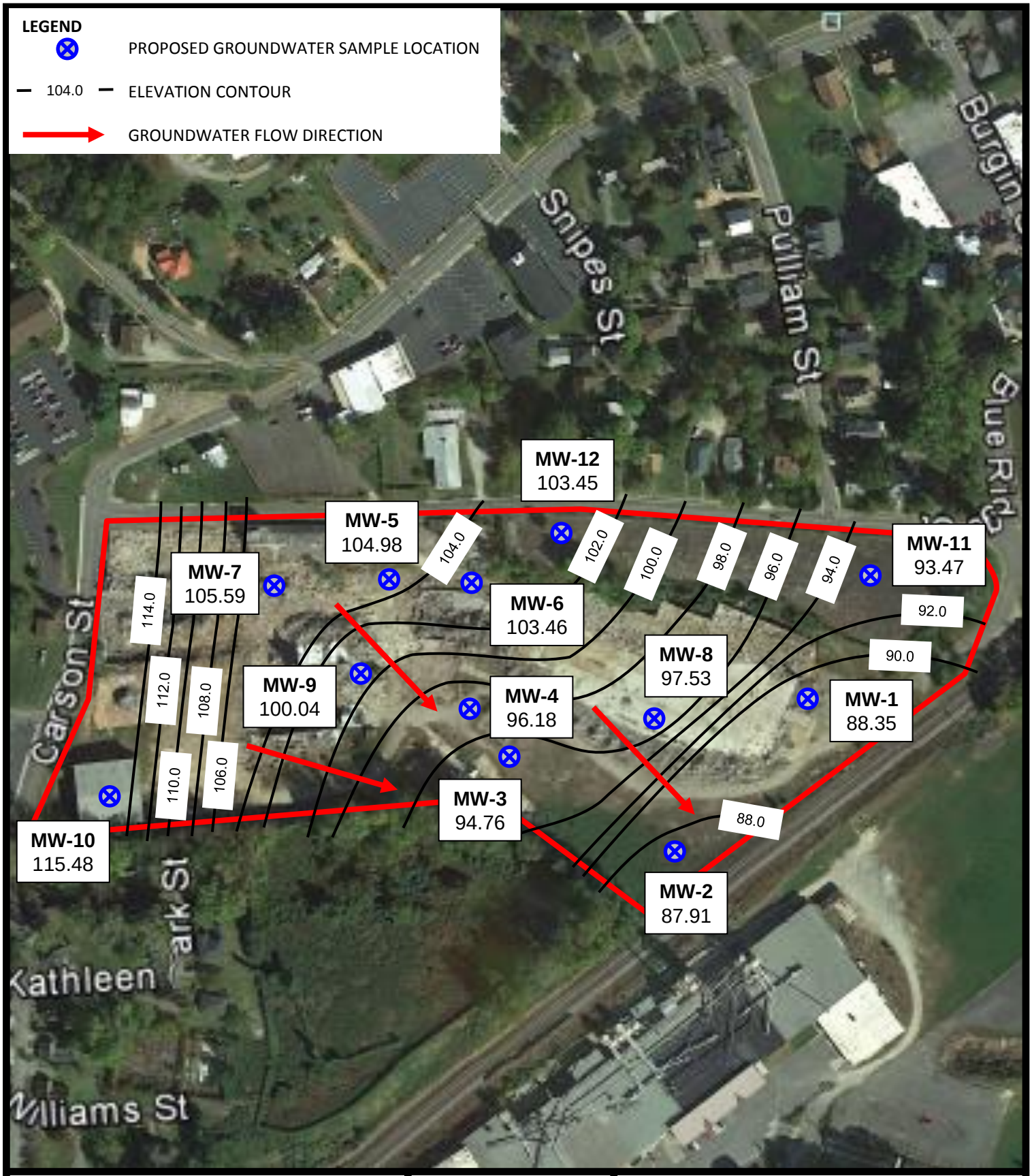
SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 5
MONITORING WELL & GROUNDWATER SAMPLE LOCATION MAP
FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-C



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 6
GROUNDWATER FLOW DIRECTION MAP

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-C

TABLES

Table 1
Summary of PID Readings
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-6258

Sample ID	Sample Depth (ft bgs)	PID Reading (ppm)
GP-1	**0-2**	**0.0**
	2-4	0.2
	4-6	0.1
	6-8	0.3
	8-10	0.2
GP-2	0-2	0.0
	2-4	0.0
	4-6	0.2
	6-8	**0.1**
GP-3	0-2	0.0
	2-4	0.0
	4-6	0.2
	6-8	**0.0**
GP-4	0-2	0.0
	2-4	0.0
	4-6	0.0
	6-8	**0.0**
GP-5	0-2	0.5
	2-4	0.9
	4-6	**1.0**
GP-6	2-4	0.8
	4-6	**25.8**
GP-7	2-4	1.5
	4-6	**1.5**
GP-8	**0-2**	**0.5**
	2-4	0.5
	4-6	0.6
GP-9	**4-6**	**0.6**
	6-8	0.6
GP-10	**0-4**	**0.3**
	4-6	0.4
GP-11	0-2	2.1
	2-4	**175**
	4-6	53
GP-12	**0-2**	**1.8**
GP-13	0-2	1.0
	2-4	0.9
	4-6	0.7
	6-8	**1.0**
GP-14	0-2	0.3
	2-4	0.5
	4-6	0.6
	6-8	**18.2**
GP-15	0-4	1.8
	4-6	2.2
GP-16	0-2	1.2
	2-4	**1.9**

PID = photoionization detector
ppm = parts per million
ft bgs = feet below the ground surface
Readings taken between February 6 and 8, 2018
BOLD = Sample submitted for analysis

Table 2
Well Construction Details
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-3978-C

Monitoring Well ID	Date Constructed	Well Diameter (in)	Casing Interval	Screen Interval	Sand Pack Interval	Seal Interval	Grout Interval	Static Water Level (btoc)	Casing Elevation	Groundwater Elevation
MW-1	2/5/2018	2	0-5	5-15	4-15	3-4	0-3	11.65	100.00	88.35
MW-2	2/5/2018	2	0-7	7-17	5-17	3-5	0-3	10.29	98.20	87.91
MW-3	2/5/2018	2	0-5	5-15	4-15	3-4	0-3	7.15	101.91	94.76
MW-4	2/5/2018	2	0-5	5-15	4-15	3-4	0-3	6.99	103.17	96.18
MW-5	2/6/2018	2	0-4	4-14	3.5-14	3-3.5	0-3	6.07	111.05	104.98
MW-6	2/6/2018	2	0-3	3-13	2.5-13	2-2.5	0-2	1.73*	105.19	103.46
MW-7	2/6/2018	2	0-4	4-14	3.5-14	3-3.5	0-3	4.03	109.62	105.59
MW-8	2/6/2018	2	0-4	4-14	3.5-14	3-3.5	0-3	5.20	102.73	97.53
MW-9	2/6/2018	2	0-4	4-14	3.5-14	3-3.5	0-3	5.51	105.55	100.04
MW-10	2/6/2018	2	0-4	4-14	3.5-14	3-3.5	0-3	4.22	119.70	115.48
MW-11	2/7/2018	2	0-28	28-38	26-38	24-26	0-24	32.43	125.90	93.47
MW-12	2/7/2018	2	0-28	28-38	26-38	24-26	0-24	31.36	134.81	103.45

Notes:
All measurements are in feet
TOC = Top of Casing
Static water level measured from TOC on February 14, 2018
* Static water level above screen zone interval

Table 3
Summary of Soil Analytical Results
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-3978-C

PARAMETER	ANALYTICAL RESULTS																								COMPARISON CRITERIA		
Sample ID	**GP-1**	**GP-2**	**GP-2D**	**GP-3**	**GP-4**	**GP-5**	**GP-6**	**GP-7**	**GP-7D**	**GP-8**	**GP-9**	**GP-10**	**GP-11**	**GP-12**	**GP-13**	**GP-14**	**GP-15**	**GP-16**	**GP-17**	**GP-17D**	**GP-18**	**GP-19**	**GP-20**	**GP-20D**	**GP-21**	**Protection of Groundwater PSRG**	**Residential Health Based PSRG**	**Industrial/ Commercial Health Based PSRG**
Collection Date	2/6/18	2/6/18	2/6/18	2/6/18	2/6/18	2/6/18	2/7/18	2/7/18	2/7/18	2/7/18	2/7/18	2/7/18	2/7/18	2/7/18	2/7/18	2/7/18	2/8/18	2/8/18	2/8/18	2/8/18	2/8/18	2/8/18	2/8/18	2/8/18	2/8/18			
Sample Depth (ft bgs)	0-2	6-8	6-8	6-8	6-8	4-6	2-4	2-4	2-4	0-2	4-6	0-4	2-4	0-2	6-8	6-8	4-6	2-4	4-6	4-6	4-6	0-2	0-2	0-2	0-2			
Volatile Organic Compounds (VOCs) + 1,4-Dioxane by EPA Method 8260																												
Acetone	<0.103	<0.0996	<0.0946	<0.101	<0.114	<0.116	<2.670	<0.113	<0.115	0.122	<0.134	<0.0764	<2.740	<0.0987	<0.0914	<0.0976	<0.107	<0.102	<0.093	<0.101	<0.093	0.239	NA	NA	NA	25	12,000	140,000
n-Butylbenzene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	0.541	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	4.5	780	12,000
sec-Butylbenzene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	0.455	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	4.1	1,600	23,000
Isoproylbenzene (cumene)	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	0.142	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	2.3	410	2,100
p-Isopropyltoluene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	**1.020**	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	1.24	NS	NS
Naphthalene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	**2.450**	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	0.39	4.1	18
n-Propylbenzene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	0.235	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	2.6	780	5,100
Toluene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	<0.134	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	0.300	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	8.3	990	9,700
1,2,4-Trimethylbenzene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	2.630	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	0.172	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	12	63	370
1,3,5-Trimethylbenzene	<0.0052	<0.0050	<0.0047	<0.0050	<0.0057	<0.0058	0.700	<0.0057	<0.0057	<0.0053	<0.0067	<0.0038	<0.137	<0.0049	<0.0046	<0.0049	<0.0053	<0.0051	<0.0046	<0.0051	<0.0046	<0.0055	NA	NA	NA	11	56	320
Total Xylenes	<0.0103	<0.010	<0.0095	<0.0101	<0.0114	<0.0116	1.070	<0.0113	<0.0115	<0.0106	<0.0134	<0.0076	1.240	<0.0099	<0.0091	<0.0098	<0.0107	<0.0102	<0.0093	<0.0051	<0.0093	<0.0110	NA	NA	NA	9.9	120	530
All other VOCs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270																												
Benzo(a)anthracene	<0.363	<0.409	<0.415	<0.434	<0.428	**0.611**	<0.425	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	0.35	1.1	21
Benzo(b)fluoranthene	<0.363	<0.409	<0.415	<0.434	<0.428	0.541	<0.425	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	1.2	1.1	21
Chrysene	<0.363	<0.409	<0.415	<0.434	<0.428	0.485	<0.425	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	36	110	2,100
bis(2-Ethylhexyl)phthalate	<0.363	<0.409	<0.415	<0.434	<0.428	<0.408	<0.425	<0.445	<0.443	0.501	<0.448	<0.433	2.060	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	14	39	160
Fluoranthene	<0.363	<0.409	<0.415	<0.434	<0.428	1.370	<0.425	<0.445	<0.443	<0.395	<0.448	<0.433	0.422	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	670	480	6,000
1-Methylnaphthalene	<0.363	<0.409	<0.415	<0.434	<0.428	<0.408	**3.660**	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	0.11	18	73
2-Methylnaphthalene	<0.363	<0.409	<0.415	<0.434	<0.428	<0.408	**5.640**	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	3.1	48	600
Naphthalene	<0.363	<0.409	<0.415	<0.434	<0.428	<0.408	**1.880**	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	0.39	4.1	18
Phenanthrene	<0.363	<0.409	<0.415	<0.434	<0.428	1.550	1.940	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	134	NS	NS
Pyrene	<0.363	<0.409	<0.415	<0.434	<0.428	1.860	0.447	<0.445	<0.443	<0.395	<0.448	<0.433	<0.396	<0.423	<0.429	<0.446	<0.464	<0.428	<0.395	<0.404	<0.365	<0.416	NA	NA	NA	440	360	4,500
All other SVOCs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RCRA Metals by EPA Method 6010																												
Arsenic	0.78	<1.2	<0.88	1.1	<0.78	1.4	2.9	**6.6**	**18.1**	**55.6**	<1.2	<1.1	3.5	<1.0	<1.0	3.1	<1.2	<0.91	0.98	<4.2	<0.99	**8.0**	**6.9**	1.4	2.5	5.8	0.68	3.00
Barium	230	258	239	161	274	142	137	81.1	116	63.9	86.5	172	107	70.7	48.3	36.8	145	50.6	45.9	106	37.0	271	145	114	113	580	3,100	47,000
Cadmium	<0.074	<0.12	<0.088	<0.091	<0.078	<0.095	<0.12	<0.65	<0.59	0.50	<0.12	<0.11	0.22	<0.10	<0.10	<0.10	<0.12	<0.091	<0.093	<0.42	<0.099	<0.58	<0.51	<0.11	<0.11	3.0	14	200
Chromium	**39.7**	**9.0**	**7.6**	**8.9**	**6.7**	**21.7**	**21.7**	**14.5**	**42.8**	**10.1**	**12.6**	**22.0**	**15.2**	**17.9**	**18.1**	**22.1**	**18.2**	**17.0**	**15.3**	**17.3**	**8.2**	**319**	**51.5**	**36.2**	**13.7**	3.8	0.31	6.5
Lead	5.3	6.8	4.9	7.3	4.7	22.6	18.8	12.8	8.5	10.7	10.8	6.7	69.5	16.2	12.2	11.2	9.5	15.8	7.0	27.0	3.8	18.0	16.4	8.5	51.2	270	400	400
Selenium	**2.5**	**2.8**	**2.2**	**2.1**	**2.5**	**3.1**	2.0	<6.5	<0.59	1.5	<1.2	1.9	1.3	**2.6**	**2.6**	**4.6**	**2.8**	**3.0**	0.93	<4.2	<0.99	<5.8	<5.1	**3.3**	**2.3**	2.1	78	1,200
Mercury by EPA Method 7471																												
Mercury	0.0082	0.015	0.012	0.021	0.012	0.033	<0.0067	<0.0081	<0.0053	0.027	0.032	0.0084	0.021	0.039	0.034	0.047	0.020	0.034	<0.0040	0.014	<0.0049	0.051	0.047	0.021	0.043	1.0	2	10
Hexavalent Chromium by EPA Method 7196																												
Hexavalent Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.8	<4.9	<4.6	3.8	0.31	6.5

Concentrations in milligrams per kilogram (mg/kg) analogous to parts per million (ppm)
ft bgs = feet below the ground surface
IHSB = Inactive Hazardous Sites Branch
PSRG = Preliminary Soil Remediation Goals
BOLD = exceeds Protection of Groundwater PSRG
Underline = exceeds Residential Health Based PSRG
Shaded = exceed Industrial/Commercial Halth Based PSRG
NA = Not Analyzed

Table 4
Summary of Groundwater Analytical Results
Former Drexel Facility
Marion, McDowell County, North Carolina
ECS Project 49-3978-C

PARAMETER	ANALYTICAL RESULTS															COMPARISON CRITERIA	
Sample ID	**MW-1**	**MW-1D**	**MW-2**	**MW-3**	**MW-3D**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**MW-7D**	**MW-8**	**MW-9**	**MW-10**	**MW-11**	**MW-12**	**NC2LGWQS**	**GCL**
Collection Date	2/14/18	2/14/18	2/14/18	2/15/18	2/15/18	2/15/18	2/15/18	2/15/18	2/16/18	2/16/18	2/16/18	2/16/18	2/16/18	2/16/18	2/16/18		
Volatile Organic Compounds + 1,4-Dioxane (VOCs) by EPA Method 8260																	
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**149**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	5,000
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22.2	<1.0	<1.0	<1.0	3.0	<1.0	<1.0	<1.0	70	70,000
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1,480**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	600	84,500
2-Hexanone	9.3	8.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	40	40,000
Naphthalene	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	**456**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6	6,000
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	70	70,000
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2,680**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	600	260,000
m,p-Xylenes	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**5,290**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	500	85,500
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2,640**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	500	85,500
Total Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7,930**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	500	85,500
All other VOCs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270																	
2,4-Dimethylphenol	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	100	100,000
Fluorene	<10.0	<10.0	24.1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	300	990
1-Methylnaphthalene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**76.0**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1	1,000
2-Methylnaphthalene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**145**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	30	12,500
Naphthalene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**560**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	6	6,000
Phenanthrene	<10.0	<10.0	16.6	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200	410
All other VOCs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals by EPA Method 6010																	
Arsenic	<10.0	<10.0	**24.0**	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**16.8**	<10.0	<10.0	**10.1**	<10.0	10	NS
Barium	402	376	**1,960**	206	210	241	85.9	193	114	114	**897**	74.4	257	**1,480**	**755**	700	700,000
Cadmium	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	2	NS
Chromium	<5.0	<5.0	**234**	<5.0	<5.0	<5.0	<5.0	5.8	<5.0	<5.0	**127**	<5.0	<5.0	**32.0**	**12.5**	10	10,000
Lead	<5.0	<5.0	**305**	<5.0	<5.0	<5.0	5.3	<5.0	<5.0	<5.0	**188**	<5.0	<5.0	**16.7**	14.0	15	15,000
Selenium	<10.0	<10.0	15.1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	14.6	<10.0	<10.0	<10.0	<10.0	20	NS
Mercury by EPA Method 7470																	
Mercury	<0.20	<0.20	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.48	<0.20	<0.20	<0.20	<0.20	1	NS

Concentrations in micrograms per liter (ug/L) analogous to parts per billion (ppb)
NA = not analyzed
NS = no standard
NC2LGWQS = North Carolina 2L Groundwater Quality Standard
GCL = Gross Contamination Level
BOLD = exceeds NC2LGWQS
Underline = exceeds GCL

APPENDIX A



Photograph 1: View of the Geoprobe drilling soil boring GP-15.



Photograph 2: View of the auger drill rig drilling the boring for monitoring well MW-1.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-C



Photograph 3: View of monitoring well MW-1, which is typical for the majority of the monitoring wells installed.



Photograph 4: View of monitoring well MW-5.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-C

APPENDIX B

Water Resources
Environmental Quality

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
LINDA CULPEPPER
Interim Director

January 30, 2018

Heather Cotton
City of Marion
194 N. Main Street
Marion, NC 28752

Re: Well Construction Permit WM0100429
Former Drexel Facility
70 Blue Ridge Street
McDowell County

Dear Ms. Cotton,

In accordance with the application submitted on your behalf by James Bevers on January 24, 2018, we are forwarding well construction permit WM0100429 dated January 30, 2018. The permit is for the construction of twelve monitoring wells on Marion Property LLC property as described in the application and the attached permit.

The permit will be effective from the date of issuance for a period of one year and is subject to the conditions and limitations as specified therein. A Well Construction Record shall be completed and signed by the certified drilling contractor for each well. The forms shall be submitted to the Department upon completion of the wells and shall reference the applicable permit number. Please review the attached permit conditions.

If you should have any questions or need additional information, contact Andrew Moore at 828-296-4500.

Sincerely,

G. Landon Davidson, P.G.
Regional Supervisor
Water Quality Regional Operations Section

cc: James Bevers – ECS Southeast, LLP (via email)
ARO file

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES
PERMIT FOR THE CONSTRUCTION OF MONITORING WELL

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules and Regulations.

PERMISSION IS HEREBY GRANTED TO
City of Marion

FOR THE CONSTRUCTION OF A MONITORING WELL SYSTEM consisting of twelve monitoring wells owned by the City of Marion, 194 North Main Street, Marion, NC 28752. The wells will be located on property owned by Marion Property LLC located in McDowell County (PIN# 1701-10-46-6003). This Permit is issued in accordance with the application received on January 24, 2018, in conformity with specifications and supporting data, all of which are filed with the Department of Environmental Quality and are considered integral parts of this Permit.

This Permit is for **well construction only**, and does not waive any provision or requirement of any other applicable law or regulation. Construction of any well under this Permit shall be in strict compliance with the North Carolina Well Construction Regulations and Standards (15A NCAC 02C .0100), and other State and Local Laws and regulations pertaining to well construction.

If any requirements or limitations specified in this Permit are unacceptable, you have a right to an adjudicatory hearing upon written request within 30 days of receipt of this Permit. The request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714. Unless such a demand is made, this Permit is final and binding.

This Permit will be effective for one year from the date of its issuance and shall be subject to other specified conditions, limitations, or exceptions as follows:

1. Issuance of this Permit does not supersede any other agreement, permit, or requirement issued by another agency.
2. The well(s) shall be located and constructed as shown on the attachments submitted as part of the Permit application.
3. Each well shall have a Well Contractor Identification Plate in accordance with 15A NCAC 02C .0108(O) where applicable.
4. The monitoring well shall be maintained in accordance with 15A NCAC 02C .0108.
5. A Well Construction Record (GW-1) for each well shall be submitted to the Division of Water Resource's Information Processing Unit within 30 days of the well completion in accordance with 15A NCAC 02C .0114.
6. When the well is discontinued or abandoned, it shall be abandoned in accordance with 15A NCAC 02C .0113 and a well abandonment record (GW-30) shall be submitted to the Division of Water Resource's Information Processing Unit and the property owner within 30 days of the well abandonment in accordance with 15A NCAC 2C .0114.

Permit issued the 30th day of January, 2018
FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



Landon Davidson, Regional Supervisor
Water Quality Regional Operations Section
By Authority of the Environmental Management Commission
Permit No. # WM0100429

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:
☒Monitoring ☐Recovery

Injection Well:
☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-5-2018 **Well ID#** MW-1

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒Permanent or ☐Temporary

7. Is this a repair to an existing well: ☐Yes or ☒No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 15' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 12' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	5' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5' ft.	15' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4' ft.	15' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	15' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3'TO 4'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-5-2018 **Well ID#** MW-3

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 15' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 12' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	5' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5' ft.	15' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4' ft.	15' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	15' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3'TO 4'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-5-2018 **Well ID#** MW-4

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 15' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 12' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	5' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5' ft.	15' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4' ft.	15' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	15' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3'TO 4'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-5-2018 **Well ID#** MW-2

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 17' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 8' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	7' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
7' ft.	17' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
5' ft.	17' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	17' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3'TO 5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-6-2018 **Well ID#** MW-5

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 14' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 5' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	4' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4' ft.	14' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	14' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	14' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3.0' TO 3.5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-6-2018 **Well ID#** MW-7

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 14' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	4' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4' ft.	14' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	14' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	14' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3.0' TO 3.5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-6-2018 **Well ID#** MW-8

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 14' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	4' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4' ft.	14' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	14' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	14' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3.0' TO 3.5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-6-2018 **Well ID#** MW-9

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 14' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	4' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4' ft.	14' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	14' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	14' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3.0' TO 3.5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-6-2018 **Well ID#** MW-10

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 14' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	4' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4' ft.	14' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	14' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	14' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3.0' TO 3.5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-6-2018 **Well ID#** MW-6

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 13' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	3' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
3' ft.	13' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	2' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
2.5 ft.	13' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	13' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 2.0' TO 2.5'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/6/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-7-2018 **Well ID#** MW-11

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☒ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 38' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 33' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28' ft.	38' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	24' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26' ft.	38' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 24' TO 26'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/7/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: WM0100429
List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☒ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 2-7-2018 **Well ID#** MW-12

5a. Well Location:

FORMER DREXEL FACILITY
Facility/Owner Name

Facility ID# (if applicable)

70 Blue Ridge St Marion, NC 28752 McDowell County ,
MARION, NC, 28752
Physical Address, City, and Zip

McDowell
County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.680748 N 82.015662 W

6. Is (are) the well(s): ☒ Permanent or ☐ Temporary

7. Is this a repair to an existing well: ☐ Yes or ☒ No
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 38' (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 33' (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 8.25" (in.)

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28' ft.	38' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	24' ft.	PORTLAND	POURED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26' ft.	38' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38' ft.	GRAY CLAY/SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 24' TO 26'.

22. Certification:

Ricky L Lemire
Signature of Certified Well Contractor

2/7/2018
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

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24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX C

HEALTH AND SAFETY PLAN

PROJECT NO: 49-3978-C
PROJECT NAME: Former Drexel Facility Soil and Groundwater Assessment

SITE LOCATION: 70 Blue Ridge Street, Marion, North Carolina

REVIEW AND APPROVAL

Principal: John M. Stewart, PG
Project Manager: James C. Bevers, PE

DATE OF PLAN PREPARATION: 02/02/2018
DATES OF PLANNED FIELD ACTIVITIES: 02/05/2018-02/13/2017

PLANNED FIELD ACTIVITIES

Soil sampling, permanent monitoring well installation, groundwater sampling

SAFETY MEETING CONDUCTED

Location: Site

Date: 02/05/2018

EMERGENCY PHONE NUMBERS

Hospital: Mission Health – McDowell Hospital
430 Rankin Drive, Marion, North Carolina
See attached map
Phone: 911

Location for on-site emergency gathering will be determined during Site Safety Meeting.

Emergency Medical System (EMS): 911
Fire: 911
Police: 911

HEALTH AND SAFETY OFFICER: James C. Bevers (828) 575-7183
ECS CONTACT: John M. Stewart (336) 478-1621

DESCRIPTION OF POTENTIAL HAZARDS

- Fire
- Exposure to petroleum through inhalation, skin absorption, or ingestion
- Heavy equipment

PERSONNEL ACCESS

Personnel who attended ECS's site safety meeting and are authorized to enter this site:

1) ECS personnel
2) SAEDACCO

DECONTAMINATION (Petroleum products)

Skin	-	wash with soap and water
Clothing	-	wash with detergent and rinse thoroughly
Equipment	-	steam clean or detergent wash

MEDICAL SURVEILLANCE

Avoid frequent or prolonged skin contact. Monitor skin and eyes for dermatitis, allergic reaction, and eye irritation. If these or other systems develop, seek qualified medical attention. Workers with histories of liver, kidney, or nervous disorders should be advised as to possible increased risk.

Symptoms of Acute Exposure to Volatile Organics: High vapor levels can cause irritation of the respiratory tract, headaches, nausea and mental confusion. Loss of consciousness. Liquid contact with skin may cause defatting, drying and irritation. Both vapor and liquid phases are irritating to the eyes.

EMERGENCY PROCEDURES (Petroleum products)

Skin	-	wash with soap and water, rinse well
Inhalation	-	move to fresh air at least 50 feet upwind from vapor source. Seek qualified medical attention.
Eyes	-	flush for a minimum of ten minutes with clean water while holding eyes open. Seek qualified medical attention.
Ingestion	-	do not induce vomiting. If conscious, give water or milk to drink. Seek qualified medical attention.

COLD STRESS – HYPOTHERMIA

Shivering is likely the first thing you'll notice as the temperature starts to drop because it's your body's automatic defense against cold temperature — an attempt to warm itself.

Signs and symptoms of hypothermia include:

- Shivering
- Slurred speech or mumbling
- Slow, shallow breathing
- Weak pulse
- Clumsiness or lack of coordination
- Drowsiness or very low energy
- Confusion or memory loss
- Loss of consciousness
- Bright red, cold skin (in infants)

Someone with hypothermia usually isn't aware of his or her condition because the symptoms often begin gradually. Also, the confused thinking associated with hypothermia prevents self-awareness. The confused thinking can also lead to risk-taking behavior.

CLOTHING AND PROTECTIVE GEAR

Nitrile rubber gloves, steel-toed boots, protective eyewear, hard hats, hearing protection, and respirator to be available at the site.

**The Project Manager or the Principal Professional should be contacted prior to changes in personal protective equipment usage.

IN THE EVENT OF PERSONNEL INJURY

Provide basic first aid procedures as required, and note time and circumstances of injuries. Call for an ambulance or transport to nearest medical facility. Notify Health and Safety Officer and Principal Project Professional.

IN THE EVENT OF POTENTIAL OR ACTUAL FIRE OR EXPLOSION

Evacuate the area immediately. Assemble in the predesignated area and conduct a head count of all personnel. Notify fire department. DO NOT attempt to fight the fire. Notify Project Manager.

ACCIDENT REPORTING

Personnel injuries and vehicle accidents should be reported to the Branch Safety Officer within 24 hours of incident.

WORK PRECAUTIONS

1) No smoking, eating, drinking or chewing of gum or tobacco products while on the site. Avoid hand to mouth contact. A designated smoking and break area may be established off-site. Any such facility must be a minimum of 100 feet from any source and shall be tested for flammable gasses and vapors at the start of work and prior to scheduled break periods each day.

2) Hard hats, steel toe boots, and safety glasses are required to be worn at all times within the site. Persons exposed to vehicular traffic will wear warning vests.

3) When the potential exists for skin contact with liquid hydrocarbons, impervious gloves and foot coverings are required to be worn.

4) Decontamination of equipment, clothing and personnel shall be in accordance with the previous section entitled "Decontamination".

5) Prior to the start of work, any ECS employees or Subcontractor personnel shall be briefed on the contents of this plan by the ECS Field Representative.

FIELD REPRESENTATIVE SUMMARY

During the work covered by this Safety Plan, there were:

X No observed violations of the Safety Plan provisions.

__The following violations of the Safety Plan provisions (give details in space below and indicate corrective action taken for each violation noted).

Signature: _____ 2/8/2018
Field Representative Date

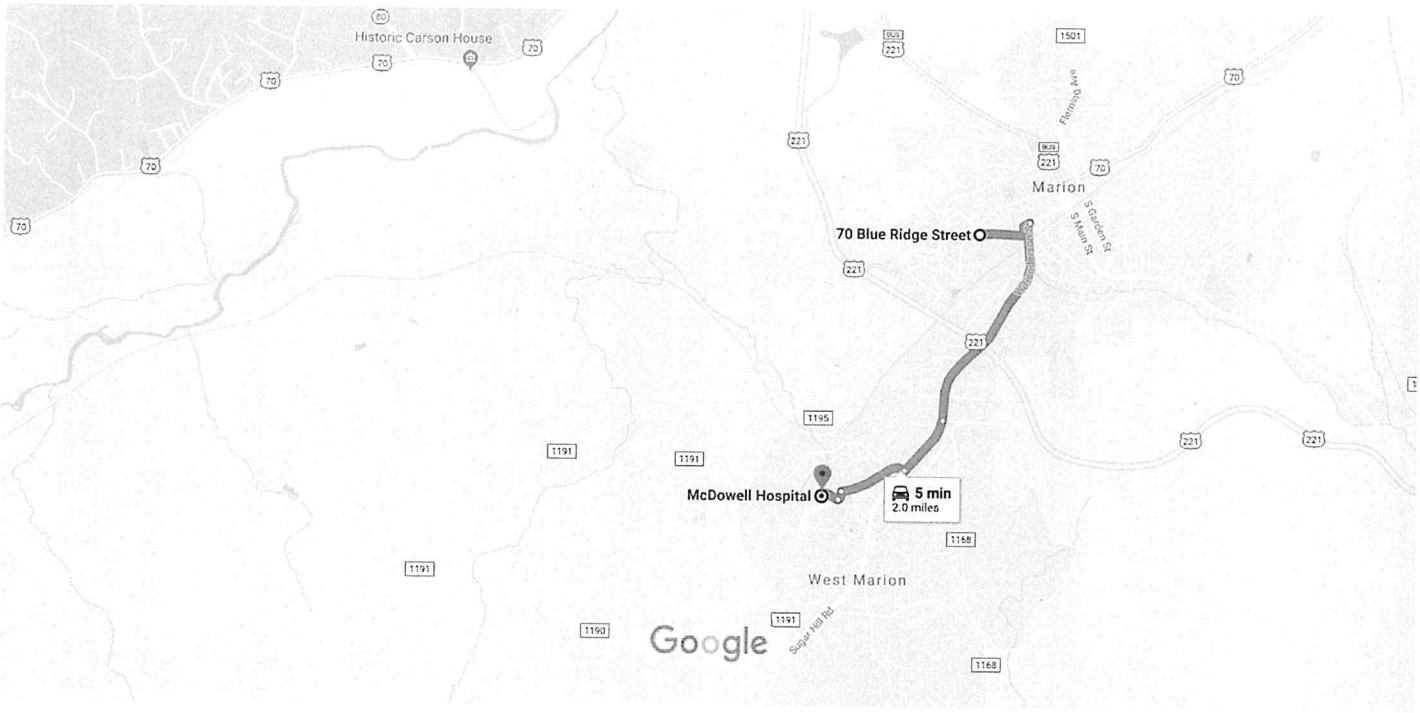
ON-SITE HEALTH AND SAFTEY MEETING

Location: Site

Attendees:

Printed Name	Signature	Company	Date	40 Hr Check
Richy Lemire	Richy Lemire	SAEDACCO	2-5-18	
Josh Holt		SAEDACCO	2-5-18	
Brian Ramer	Brian Ramer	SAEDACCO	2-5-18	
Jim Bevens		ECS	2/5/18	
John Eisenmen		SAEDACCO	2-6-18	

Google Maps 70 Blue Ridge Street, Marion, NC to McDowell Hospital Drive 2.0 miles, 5 min



70 Blue Ridge St

Marion, NC 28752

1.	Head east on Blue Ridge St toward Pulliam St	0.3 mi
2.	Sharp right onto W Henderson St Pass by Burger King (on the left in 0.5 mi)	1.0 mi
3.	Continue onto Sugar Hill Rd	0.3 mi
4.	Turn right onto Rankin Dr	0.3 mi
5.	Turn left to stay on Rankin Dr	236 ft
6.	Turn right to stay on Rankin Dr Destination will be on the left	318 ft

McDowell Hospital

430 Rankin Dr, Marion, NC 28752

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

APPENDIX D

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-1/GP-1
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,393 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/5/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 11.65	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
0 / 1392	0.0	GP-1			**Asphalt**	Asphalt	
3 / 1389	0.2				**ML-CL**	Reddish brown clayey silt	
6 / 1386	0.1 0.3						
9 / 1383	0.2				**CH-MH**	Brown clayey silt	
12 / 1380	0.2						
15 / 1377						End of boring	
18 / 1374							
21							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-2/GP-2
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,391 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/5/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 10.29	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
0							
1389	0.0				**Gravel**	Gravel	
3	0.0				**ML-CL**	Reddish brown clayey silt	
1386	0.2						
6	0.1	GP-2/2D			**MH/SM**	Tan grey silty sand	
1383							
9	0.6				**ML-CL**	Brown clayey silt	
▼					**ML/GM**	Gravelly brown clayey silt	▼
1380	5.8						
12					**CH-MH**	Dark brown silty clay	
1377							
15							
1374						End of boring	
18							
1371							
21							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

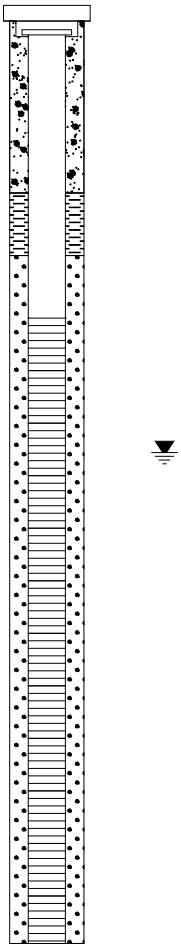
PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-3/GP-5
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,395 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/5/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 7.15	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
1395 — 0	0.5				GW-GC	Dark brown gravel with clay
1392 — 3	0.9				CH-MH	Brown silty clay
	1.0	GP-5				
1389 — 6	0.5					
1386 — 9	0.6				MH/SM	Grey sandy clay
1383 — 12						
1380 — 15						End of boring
1377 — 18						
1374 — 21						

WELL CONSTRUCTION



This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-10/GP-6
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,413 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 4.22	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
1413 — 0					**Concrete**	Concrete	
					Gravel	Gravel	
1410 — 3	0.8						
	25.8	**GP-6**					
1407 — 6							
	1.8				**ML-CL**	Brown clayey silt	
1404 — 9	35.2						
1401 — 12							
						End of boring	
1398 — 15							
1395 — 18							
1392 — 21							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-7/GP-11
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,401 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 4.03	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
1401 — 0					**Asphalt**	Asphalt	
	2.1						
1398 — 3	175	**GP-11**			**CH-MH**	Potential organics Dark brown silty clay	
	53						
1395 — 6							
	24						
1392 — 9					**ML-CL**	Grey clayey silt	
1389 — 12							
						End of boring	
1386 — 15							
1383 — 18							
1380 — 21							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

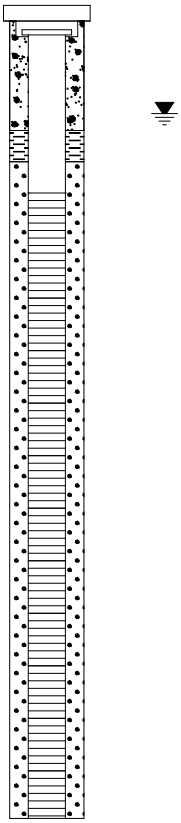
PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-6/GP-12
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,398 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 1.73	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
1398 — 0					**Asphalt**	Asphalt
	1.8	**GP-12**			**ML/SM**	Tan silty sand
1395 — 3	51				**MH/CL**	Grey and pink clay
	158				**ML-CL**	Light tan clayey silt
1392 — 6	2.6				**CH-MH**	Orange clayey silt
1389 — 9						
1386 — 12						End of boring
1383 — 15						
1380 — 18						
1377 — 21						

WELL CONSTRUCTION



This information pertains only to this boring and should not be interpreted as being indicative of the site.

Figure

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-9/GP-15
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,401 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 5.51	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
1401 — 0					**Concrete**	Concrete	
	1.8				**CH-MH**	Brown silty clay	
1398 — 3							
	2.2	**GP-15**					
1395 — 6							
	2.2						
1392 — 9	1.8				**MH/CL**	Dark brown clay	
	1.8						
1389 — 12							
						End of boring	
1386 — 15							
1383 — 18							
1380 — 21							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-4/GP-17
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,397 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/5/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 6.99	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
0 / 1395	1.4	GP-17			**Gravel**	Concrete	
3 / 1392					**SW**	Brown sand	
6 / 1389					**ML-CL**	Brown silty clay	
9 / 1386					**MH/CL**	Greyish brown clay	
12 / 1383							
15 / 1380						End of boring	
18 / 1377							
21							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-8/GP-19
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,395 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 5.20	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
1395 — 0					**Gravel**	Gravel	
		GP-19			**MH/CL**	Red clay	
1392 — 3							
					CH-MH	Red silty clay	
1389 — 6					**SW**	Brown sand	
					MH/CL	Greyish brown clay	
1386 — 9							
1383 — 12							
						End of boring	
1380 — 15							
1377 — 18							
1374 — 21							

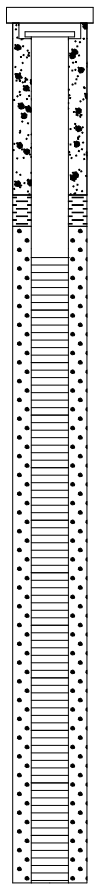
This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-5
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,400 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 6.07	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
0					**Gravel**	Gravel	
1398 / 3					**CH-MH**	Dark brown silty clay	
1395 / 6							
1392 / 9					**ML-CL**	Grey clayey silt	
1389 / 12							
1386 / 15						End of boring	
1383 / 18							
1380 / 21							



This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-11/GP-20
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,417 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 32.43	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
0 / 1416		GP-20			**Asphalt**	Asphalt	
					MH/CL	Red clay	
6 / 1410							
12 / 1404							
18 / 1398					**SM/MH**	Brown sandy silt	
24 / 1392							
30 / 1386							
36 / 1380						End of boring	
42 / 1374							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NO. MW-12/GP-21
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,426 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 31.36	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION	WELL CONSTRUCTION
0		GP-21			Asphalt	Asphalt	
1422 / 6					MH/CL	Red clay	
1416 / 12							
1410 / 18							
1404 / 24					SM/MH	Brown sandy silt	
1398 / 30							
1392 / 36							
1386 / 42						End of boring	

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-3
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,392 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 10.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
1392 — 0						
					Gravel	Gravel
	0.0				**ML-CL**	Reddish brown clayey silt
1389 — 3	0.0				**MH/SM**	Tan silty sand
	0.2				**ML-CL**	Brown clayey silt
1386 — 6					**MH/SM**	Tan grey silty sand
	0.0	**GP-3**			**CH-MH**	Brown clayey silt
1383 — 9	0.0					
	0.0					
1380 — 12						End of boring
1377 — 15						
1374 — 18						
1371 — 21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-4
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,391 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/6/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 10.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0						
					Gravel	Gravel
	0.0					
1389						
3	0.0				**ML-CL**	Brown clayey silt
1386						
	0.0					
6						
	0.0	**GP-4**			**MH/SM**	Tan grey silty sand
1383						
9	1.1					
▼						
1380					**SC**	Brown sandy clay
	0.9					
12						
						End of boring
1377						
15						
1374						
18						
1371						
21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-7
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,413 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 4.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
1413 — 0					**Concrete**	Concrete
					Gravel	Gravel
	0.8					
1410 — 3	1.5	**GP-7**				
	1.5					
1407 — 6					**ML-CL**	Brown clayey silt
	0.9					
1404 — 9	1.1					
1401 — 12						End of boring
1398 — 15						
1395 — 18						
1392 — 21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-8
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,413 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 4.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
1413 — 0					**Gravel**	Gravel
	0.5	**GP-8**				
1410 — 3	0.5					
	0.6					
1407 — 6					**ML-CL**	Brown clayey silt
	0.6					
1404 — 9	1.1					
	1.0					
1401 — 12						End of boring
1398 — 15						
1395 — 18						
1392 — 21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-9
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC		ELEVATION: 1,405 ft msl	
DRILLER: SAEDACCO		DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe		DEPTH TO WATER: 9.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0					**Concrete**	Concrete
1404					**MH/CL**	Light grey clay
3						
1401	1.0	**GP-9**				
6					**CH-MH**	Dark brown silty clay
1398	0.6				**GW-SW**	Light tan gravelly sand
9	0.6					
1395					**CH/MH**	Orange and tan silty clay
	0.3					
12						End of boring
1392						
15						
1389						
18						
1386						
21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-10
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,410 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 5.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
1410 — 0					**Gravel**	Gravel
					CH-MH	Dark grey silty clay
	0.3	**GP-10**				
1407 — 3					**ML-CL**	Orange clayey silt
	0.4					
1404 — 6					**SC**	Tan clayey sand
	0.4					
						End of boring
1401 — 9						
1398 — 12						
1395 — 15						
1392 — 18						
1389 — 21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-13
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,406 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 9.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0					**Asphalt**	Asphalt
1404 — 3	1.0				**MH/CL**	Red clay
	0.9					
1401 — 6	0.7				**CL/CH**	Orange clay
	1.0	**GP-13**				
1398 — 9 ▼	0.9				**CH-MH**	Orange silty clay
1395 — 12	0.8					
						End of boring
1392 — 15						
1389 — 18						
1386 — 21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-14
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,405 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/7/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 9.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0 / 1404					**Concrete**	Concrete
1404	0.3					
3 / 1401	0.5					
1401					**MH/CL**	Red clay
6 / 1398	0.6					
1398	18.2	**GP-14**				
9 / 1395	11.7				**CL**	Orange and grey clay
1395	8.2					
12 / 1392						End of boring
1392						
15 / 1389						
1389						
18 / 1386						
1386						
21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-16
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,396 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/8/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 4.0	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0 / 1395	1.2				**Gravel**	Gravel
3 / 1392	1.9	**GP-16**			**MH/CL**	Brown clay
6 / 1389	1.0					
9 / 1386						End of boring
12 / 1383						
15 / 1380						
18 / 1377						
21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

PROJECT: Former Drexel Facility
CLIENT: City of Marion

BORING NUM. GP-18
PROJECT NO. 49-3978-C

LOCATION: 70 Blue Ridge Street, Marion, NC	ELEVATION: 1,396 ft msl	
DRILLER: SAEDACCO	DATE DRILLED: 2/8/2018	LOGGED BY: JCB
DRILL RIG: Geoprobe	DEPTH TO WATER: 7.5	

Elevation/ Depth (Ft)	PID Reading	Sample Number	Sample Recovery (in/in)	Graphic Log	Soil Classification	SOIL DESCRIPTION
0 / 1395					**Gravel**	Gravel
3 / 1392		**GP-18**			**SW**	Brown sand
6 / 1389 (▼)						
9 / 1386						
12 / 1383						End of boring
15 / 1380						
18 / 1377						
21						

This information pertains only to this boring and should not be interpreted as being indicative of the site.

APPENDIX E

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

February 15, 2018

Jim Bevers
ECS Carolinas
1900 Hendersonville Road
Suite 10
Asheville, NC 28803

RE: Project: DREXEL
Pace Project No.: 92372445

Dear Jim Bevers:
Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

CERTIFICATIONS

Project: DREXEL
Pace Project No.: 92372445

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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Asheville, NC 28804
(828)254-7176

SAMPLE ANALYTE COUNT

Project: DREXEL
Pace Project No.: 92372445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92372445001	**R-1**	EPA 6010	SH1	1	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	64	PASI-C
92372445002	**T-1**	EPA 8260	GAW	64	PASI-C
92372445003	**R-2**	EPA 6010	SH1	1	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	64	PASI-C
92372445004	**GP-1**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372445005	**GP-2**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372445006	**GP-3**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372445007	**GP-4**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372445008	**GP-5**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372445009	**T-2**	EPA 8260	GAW	64	PASI-C
92372445010	**GP-D2**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SAMPLE ANALYTE COUNT

Project: DREXEL
Pace Project No.: 92372445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

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(828)254-7176

SUMMARY OF DETECTION

Project: DREXEL
Pace Project No.: 92372445

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92372445004	**GP-1**					
EPA 6010	Arsenic	0.78	mg/kg	0.74	02/15/18 14:17	
EPA 6010	Barium	230	mg/kg	0.37	02/15/18 14:17	
EPA 6010	Chromium	39.7	mg/kg	0.37	02/15/18 14:17	
EPA 6010	Lead	5.3	mg/kg	0.37	02/15/18 14:17	
EPA 6010	Selenium	2.5	mg/kg	0.74	02/15/18 14:17	
EPA 7471	Mercury	0.0082	mg/kg	0.0030	02/14/18 15:18	
ASTM D2974-87	Percent Moisture	9.3	%	0.10	02/09/18 11:52	
92372445005	**GP-2**					
EPA 6010	Barium	258	mg/kg	0.61	02/15/18 14:21	
EPA 6010	Chromium	9.0	mg/kg	0.61	02/15/18 14:21	
EPA 6010	Lead	6.8	mg/kg	0.61	02/15/18 14:21	
EPA 6010	Selenium	2.8	mg/kg	1.2	02/15/18 14:21	
EPA 7471	Mercury	0.015	mg/kg	0.0063	02/14/18 15:20	
ASTM D2974-87	Percent Moisture	19.0	%	0.10	02/09/18 11:55	
92372445006	**GP-3**					
EPA 6010	Arsenic	1.1	mg/kg	0.91	02/15/18 14:24	
EPA 6010	Barium	161	mg/kg	0.46	02/15/18 14:24	
EPA 6010	Chromium	8.9	mg/kg	0.46	02/15/18 14:24	
EPA 6010	Lead	7.3	mg/kg	0.46	02/15/18 14:24	
EPA 6010	Selenium	2.1	mg/kg	0.91	02/15/18 14:24	
EPA 7471	Mercury	0.021	mg/kg	0.0042	02/14/18 15:22	
ASTM D2974-87	Percent Moisture	23.7	%	0.10	02/09/18 11:55	
92372445007	**GP-4**					
EPA 6010	Barium	274	mg/kg	0.39	02/15/18 14:27	
EPA 6010	Chromium	6.7	mg/kg	0.39	02/15/18 14:27	
EPA 6010	Lead	4.7	mg/kg	0.39	02/15/18 14:27	
EPA 6010	Selenium	2.5	mg/kg	0.78	02/15/18 14:27	
EPA 7471	Mercury	0.012	mg/kg	0.0032	02/14/18 15:25	
ASTM D2974-87	Percent Moisture	22.6	%	0.10	02/09/18 11:55	
92372445008	**GP-5**					
EPA 6010	Arsenic	1.4	mg/kg	0.95	02/15/18 14:37	
EPA 6010	Barium	142	mg/kg	0.48	02/15/18 14:37	
EPA 6010	Chromium	21.7	mg/kg	0.48	02/15/18 14:37	
EPA 6010	Lead	22.6	mg/kg	0.48	02/15/18 14:37	
EPA 6010	Selenium	3.1	mg/kg	0.95	02/15/18 14:37	
EPA 7471	Mercury	0.033	mg/kg	0.0045	02/14/18 15:27	
EPA 8270	Benzo(a)anthracene	611	ug/kg	408	02/13/18 20:42	
EPA 8270	Benzo(b)fluoranthene	541	ug/kg	408	02/13/18 20:42	
EPA 8270	Chrysene	485	ug/kg	408	02/13/18 20:42	
EPA 8270	Fluoranthene	1370	ug/kg	408	02/13/18 20:42	
EPA 8270	Phenanthrene	1550	ug/kg	408	02/13/18 20:42	
EPA 8270	Pyrene	1860	ug/kg	408	02/13/18 20:42	
ASTM D2974-87	Percent Moisture	19.4	%	0.10	02/09/18 11:55	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: DREXEL
Pace Project No.: 92372445

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92372445010	**GP-D2**					
EPA 6010	Barium	239	mg/kg	0.44	02/15/18 14:40	
EPA 6010	Chromium	7.6	mg/kg	0.44	02/15/18 14:40	
EPA 6010	Lead	4.9	mg/kg	0.44	02/15/18 14:40	
EPA 6010	Selenium	2.2	mg/kg	0.88	02/15/18 14:40	
EPA 7471	Mercury	0.012	mg/kg	0.0053	02/14/18 15:29	
ASTM D2974-87	Percent Moisture	19.7	%	0.10	02/09/18 11:55	

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Asheville, NC 28804
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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-1 **Lab ID: 92372445001** Collected: 02/05/18 15:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Lead	ND	ug/L	5.0	1	02/08/18 07:10	02/11/18 20:23	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/14/18 11:55	02/15/18 13:23	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	208-96-8	
Aniline	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 14:30	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 14:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 14:30	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 14:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 14:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 14:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 14:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/09/18 08:29	02/12/18 14:30	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	86-73-7	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-1 **Lab ID: 92372445001** Collected: 02/05/18 15:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 14:30	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 14:30	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 14:30	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 14:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/09/18 08:29	02/12/18 14:30	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	85-01-8	
Phenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 14:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	40-121	1	02/09/18 08:29	02/12/18 14:30	4165-60-0	
2-Fluorobiphenyl (S)	68	%	45-139	1	02/09/18 08:29	02/12/18 14:30	321-60-8	
Terphenyl-d14 (S)	94	%	48-146	1	02/09/18 08:29	02/12/18 14:30	1718-51-0	
Phenol-d6 (S)	42	%	18-105	1	02/09/18 08:29	02/12/18 14:30	13127-88-3	
2-Fluorophenol (S)	52	%	13-118	1	02/09/18 08:29	02/12/18 14:30	367-12-4	
2,4,6-Tribromophenol (S)	85	%	31-170	1	02/09/18 08:29	02/12/18 14:30	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 09:47	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 09:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 09:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 09:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 09:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 09:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 09:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 09:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 09:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 09:47	108-90-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-1 **Lab ID: 92372445001** Collected: 02/05/18 15:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		02/10/18 09:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 09:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 09:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 09:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 09:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 09:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 09:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 09:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 09:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 09:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 09:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 09:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 09:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 09:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 09:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 09:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 09:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 09:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 09:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 09:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 09:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 09:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 09:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 09:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 09:47	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 09:47	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 09:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 09:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 09:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 09:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 09:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 09:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 09:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 09:47	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 09:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 09:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 09:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 09:47	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 09:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 09:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 09:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 09:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 09:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 09:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 09:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 09:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 09:47	108-05-4	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-1 **Lab ID: 92372445001** Collected: 02/05/18 15:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 09:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 09:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 09:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 09:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/10/18 09:47	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		02/10/18 09:47	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		02/10/18 09:47	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: T-1 **Lab ID: 92372445002** Collected: 02/05/18 16:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 08:06	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 08:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 08:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 08:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 08:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 08:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 08:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 08:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 08:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 08:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/10/18 08:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 08:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 08:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 08:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 08:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 08:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 08:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 08:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 08:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 08:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 08:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 08:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 08:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 08:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 08:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 08:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 08:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 08:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 08:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 08:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 08:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 08:06	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 08:06	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 08:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 08:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 08:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 08:06	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 08:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 08:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 08:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 08:06	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 08:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 08:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 08:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: T-1 **Lab ID: 92372445002** Collected: 02/05/18 16:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 08:06	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 08:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 08:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 08:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 08:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 08:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 08:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 08:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 08:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 08:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 08:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 08:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		02/10/18 08:06	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		02/10/18 08:06	17060-07-0	
Toluene-d8 (S)	107	%	70-130	1		02/10/18 08:06	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-2 **Lab ID: 92372445003** Collected: 02/06/18 13:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Lead	ND	ug/L	5.0	1	02/08/18 07:10	02/11/18 20:26	7439-92-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/14/18 11:55	02/15/18 13:30	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	208-96-8	
Aniline	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 15:28	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 15:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 15:28	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 15:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 15:28	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 15:28	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 15:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/09/18 08:29	02/12/18 15:28	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	86-73-7	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-2 **Lab ID: 92372445003** Collected: 02/06/18 13:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 15:28	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 15:28	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/09/18 08:29	02/12/18 15:28	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/09/18 08:29	02/12/18 15:28	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/09/18 08:29	02/12/18 15:28	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	85-01-8	
Phenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/09/18 08:29	02/12/18 15:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%	40-121	1	02/09/18 08:29	02/12/18 15:28	4165-60-0	
2-Fluorobiphenyl (S)	57	%	45-139	1	02/09/18 08:29	02/12/18 15:28	321-60-8	
Terphenyl-d14 (S)	93	%	48-146	1	02/09/18 08:29	02/12/18 15:28	1718-51-0	
Phenol-d6 (S)	35	%	18-105	1	02/09/18 08:29	02/12/18 15:28	13127-88-3	
2-Fluorophenol (S)	37	%	13-118	1	02/09/18 08:29	02/12/18 15:28	367-12-4	
2,4,6-Tribromophenol (S)	71	%	31-170	1	02/09/18 08:29	02/12/18 15:28	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 10:04	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 10:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 10:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 10:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 10:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 10:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 10:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 10:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 10:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 10:04	108-90-7	

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-2 **Lab ID: 92372445003** Collected: 02/06/18 13:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	1.0	1		02/10/18 10:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 10:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 10:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 10:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 10:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 10:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 10:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 10:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 10:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 10:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 10:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 10:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 10:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 10:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 10:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 10:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 10:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 10:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 10:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 10:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 10:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 10:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 10:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 10:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 10:04	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 10:04	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 10:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 10:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 10:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 10:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 10:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 10:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 10:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 10:04	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 10:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 10:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 10:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 10:04	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 10:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 10:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 10:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 10:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 10:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 10:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 10:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 10:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 10:04	108-05-4	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: R-2 **Lab ID: 92372445003** Collected: 02/06/18 13:00 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 10:04	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 10:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 10:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 10:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/10/18 10:04	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		02/10/18 10:04	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		02/10/18 10:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-1 **Lab ID: 92372445004** Collected: 02/06/18 14:20 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**0.78**	mg/kg	0.74	1	02/14/18 09:15	02/15/18 14:17	7440-38-2	
Barium	**230**	mg/kg	0.37	1	02/14/18 09:15	02/15/18 14:17	7440-39-3	
Cadmium	ND	mg/kg	0.074	1	02/14/18 09:15	02/15/18 14:17	7440-43-9	
Chromium	**39.7**	mg/kg	0.37	1	02/14/18 09:15	02/15/18 14:17	7440-47-3	
Lead	**5.3**	mg/kg	0.37	1	02/14/18 09:15	02/15/18 14:17	7439-92-1	
Selenium	**2.5**	mg/kg	0.74	1	02/14/18 09:15	02/15/18 14:17	7782-49-2	
Silver	ND	mg/kg	0.37	1	02/14/18 09:15	02/15/18 14:17	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0082**	mg/kg	0.0030	1	02/14/18 11:55	02/14/18 15:18	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	83-32-9	
Acenaphthylene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	208-96-8	
Aniline	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	62-53-3	
Anthracene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	207-08-9	
Benzoic Acid	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	65-85-0	
Benzyl alcohol	ND	ug/kg	725	1	02/08/18 12:25	02/13/18 20:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	725	1	02/08/18 12:25	02/13/18 20:46	59-50-7	
4-Chloroaniline	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	111-44-4	
2-Chloronaphthalene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	91-58-7	
2-Chlorophenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	7005-72-3	
Chrysene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	53-70-3	
Dibenzofuran	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	120-83-2	
Diethylphthalate	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	105-67-9	
Dimethylphthalate	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	725	1	02/08/18 12:25	02/13/18 20:46	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-1 **Lab ID: 92372445004** Collected: 02/06/18 14:20 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	117-81-7	
Fluoranthene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	206-44-0	
Fluorene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	77-47-4	
Hexachloroethane	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	193-39-5	
Isophorone	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	78-59-1	
1-Methylnaphthalene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	90-12-0	
2-Methylnaphthalene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	15831-10-4	
Naphthalene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	91-20-3	
2-Nitroaniline	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	88-74-4	
3-Nitroaniline	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	99-09-2	
4-Nitroaniline	ND	ug/kg	725	1	02/08/18 12:25	02/13/18 20:46	100-01-6	
Nitrobenzene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	98-95-3	
2-Nitrophenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	88-75-5	
4-Nitrophenol	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	108-60-1	
Pentachlorophenol	ND	ug/kg	1810	1	02/08/18 12:25	02/13/18 20:46	87-86-5	
Phenanthrene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	85-01-8	
Phenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	108-95-2	
Pyrene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	363	1	02/08/18 12:25	02/13/18 20:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%	23-110	1	02/08/18 12:25	02/13/18 20:46	4165-60-0	
2-Fluorobiphenyl (S)	67	%	30-110	1	02/08/18 12:25	02/13/18 20:46	321-60-8	
Terphenyl-d14 (S)	72	%	28-110	1	02/08/18 12:25	02/13/18 20:46	1718-51-0	
Phenol-d6 (S)	69	%	22-110	1	02/08/18 12:25	02/13/18 20:46	13127-88-3	
2-Fluorophenol (S)	64	%	13-110	1	02/08/18 12:25	02/13/18 20:46	367-12-4	
2,4,6-Tribromophenol (S)	81	%	27-110	1	02/08/18 12:25	02/13/18 20:46	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	103	1		02/11/18 14:34	67-64-1	
Benzene	ND	ug/kg	5.2	1		02/11/18 14:34	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-1 **Lab ID: 92372445004** Collected: 02/06/18 14:20 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		02/11/18 14:34	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		02/11/18 14:34	75-27-4	
Bromoform	ND	ug/kg	5.2	1		02/11/18 14:34	75-25-2	
Bromomethane	ND	ug/kg	10.3	1		02/11/18 14:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	103	1		02/11/18 14:34	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/11/18 14:34	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	108-90-7	
Chloroethane	ND	ug/kg	10.3	1		02/11/18 14:34	75-00-3	
Chloroform	ND	ug/kg	5.2	1		02/11/18 14:34	67-66-3	
Chloromethane	ND	ug/kg	10.3	1		02/11/18 14:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		02/11/18 14:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		02/11/18 14:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		02/11/18 14:34	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		02/11/18 14:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		02/11/18 14:34	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		02/11/18 14:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.3	1		02/11/18 14:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/11/18 14:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/11/18 14:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/11/18 14:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/11/18 14:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/11/18 14:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		02/11/18 14:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		02/11/18 14:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		02/11/18 14:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		02/11/18 14:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/11/18 14:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/11/18 14:34	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		02/11/18 14:34	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	155	1		02/11/18 14:34	123-91-1	
Ethylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		02/11/18 14:34	87-68-3	
2-Hexanone	ND	ug/kg	51.6	1		02/11/18 14:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		02/11/18 14:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		02/11/18 14:34	99-87-6	
Methylene Chloride	ND	ug/kg	20.6	1		02/11/18 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.6	1		02/11/18 14:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		02/11/18 14:34	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		02/11/18 14:34	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-1 **Lab ID: 92372445004** Collected: 02/06/18 14:20 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	103-65-1	
Styrene	ND	ug/kg	5.2	1		02/11/18 14:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/11/18 14:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/11/18 14:34	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		02/11/18 14:34	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/11/18 14:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		02/11/18 14:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/11/18 14:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		02/11/18 14:34	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		02/11/18 14:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		02/11/18 14:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		02/11/18 14:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		02/11/18 14:34	108-67-8	
Vinyl acetate	ND	ug/kg	51.6	1		02/11/18 14:34	108-05-4	
Vinyl chloride	ND	ug/kg	10.3	1		02/11/18 14:34	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		02/11/18 14:34	1330-20-7	
m&p-Xylene	ND	ug/kg	10.3	1		02/11/18 14:34	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		02/11/18 14:34	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		02/11/18 14:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		02/11/18 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-132	1		02/11/18 14:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.3**	%	0.10	1		02/09/18 11:52		

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-2 **Lab ID: 92372445005** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.2	1	02/14/18 09:15	02/15/18 14:21	7440-38-2	
Barium	**258**	mg/kg	0.61	1	02/14/18 09:15	02/15/18 14:21	7440-39-3	
Cadmium	ND	mg/kg	0.12	1	02/14/18 09:15	02/15/18 14:21	7440-43-9	
Chromium	**9.0**	mg/kg	0.61	1	02/14/18 09:15	02/15/18 14:21	7440-47-3	
Lead	**6.8**	mg/kg	0.61	1	02/14/18 09:15	02/15/18 14:21	7439-92-1	
Selenium	**2.8**	mg/kg	1.2	1	02/14/18 09:15	02/15/18 14:21	7782-49-2	
Silver	ND	mg/kg	0.61	1	02/14/18 09:15	02/15/18 14:21	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.015**	mg/kg	0.0063	1	02/14/18 11:55	02/14/18 15:20	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	83-32-9	
Acenaphthylene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	208-96-8	
Aniline	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	62-53-3	
Anthracene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	207-08-9	
Benzoic Acid	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	65-85-0	
Benzyl alcohol	ND	ug/kg	818	1	02/08/18 12:25	02/13/18 21:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	818	1	02/08/18 12:25	02/13/18 21:46	59-50-7	
4-Chloroaniline	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	111-44-4	
2-Chloronaphthalene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	91-58-7	
2-Chlorophenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	7005-72-3	
Chrysene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	53-70-3	
Dibenzofuran	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	120-83-2	
Diethylphthalate	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	105-67-9	
Dimethylphthalate	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	818	1	02/08/18 12:25	02/13/18 21:46	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-2 **Lab ID: 92372445005** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	117-81-7	
Fluoranthene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	206-44-0	
Fluorene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	77-47-4	
Hexachloroethane	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	193-39-5	
Isophorone	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	78-59-1	
1-Methylnaphthalene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	90-12-0	
2-Methylnaphthalene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	15831-10-4	
Naphthalene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	99-09-2	
4-Nitroaniline	ND	ug/kg	818	1	02/08/18 12:25	02/13/18 21:46	100-01-6	
Nitrobenzene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	98-95-3	
2-Nitrophenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	108-60-1	
Pentachlorophenol	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 21:46	87-86-5	
Phenanthrene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	85-01-8	
Phenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	108-95-2	
Pyrene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	409	1	02/08/18 12:25	02/13/18 21:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	80	%	23-110	1	02/08/18 12:25	02/13/18 21:46	4165-60-0	
2-Fluorobiphenyl (S)	70	%	30-110	1	02/08/18 12:25	02/13/18 21:46	321-60-8	
Terphenyl-d14 (S)	68	%	28-110	1	02/08/18 12:25	02/13/18 21:46	1718-51-0	
Phenol-d6 (S)	70	%	22-110	1	02/08/18 12:25	02/13/18 21:46	13127-88-3	
2-Fluorophenol (S)	68	%	13-110	1	02/08/18 12:25	02/13/18 21:46	367-12-4	
2,4,6-Tribromophenol (S)	77	%	27-110	1	02/08/18 12:25	02/13/18 21:46	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	99.6	1		02/11/18 14:54	67-64-1	
Benzene	ND	ug/kg	5.0	1		02/11/18 14:54	71-43-2	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-2 **Lab ID: 92372445005** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		02/11/18 14:54	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		02/11/18 14:54	75-27-4	
Bromoform	ND	ug/kg	5.0	1		02/11/18 14:54	75-25-2	
Bromomethane	ND	ug/kg	10	1		02/11/18 14:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	99.6	1		02/11/18 14:54	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		02/11/18 14:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	108-90-7	
Chloroethane	ND	ug/kg	10	1		02/11/18 14:54	75-00-3	
Chloroform	ND	ug/kg	5.0	1		02/11/18 14:54	67-66-3	
Chloromethane	ND	ug/kg	10	1		02/11/18 14:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		02/11/18 14:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		02/11/18 14:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		02/11/18 14:54	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		02/11/18 14:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		02/11/18 14:54	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		02/11/18 14:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10	1		02/11/18 14:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		02/11/18 14:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		02/11/18 14:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		02/11/18 14:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		02/11/18 14:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		02/11/18 14:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		02/11/18 14:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		02/11/18 14:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		02/11/18 14:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		02/11/18 14:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		02/11/18 14:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		02/11/18 14:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		02/11/18 14:54	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	149	1		02/11/18 14:54	123-91-1	
Ethylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		02/11/18 14:54	87-68-3	
2-Hexanone	ND	ug/kg	49.8	1		02/11/18 14:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		02/11/18 14:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		02/11/18 14:54	99-87-6	
Methylene Chloride	ND	ug/kg	19.9	1		02/11/18 14:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.8	1		02/11/18 14:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		02/11/18 14:54	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		02/11/18 14:54	91-20-3	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-2 **Lab ID: 92372445005** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	103-65-1	
Styrene	ND	ug/kg	5.0	1		02/11/18 14:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		02/11/18 14:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		02/11/18 14:54	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		02/11/18 14:54	127-18-4	
Toluene	ND	ug/kg	5.0	1		02/11/18 14:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		02/11/18 14:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		02/11/18 14:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		02/11/18 14:54	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		02/11/18 14:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		02/11/18 14:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		02/11/18 14:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		02/11/18 14:54	108-67-8	
Vinyl acetate	ND	ug/kg	49.8	1		02/11/18 14:54	108-05-4	
Vinyl chloride	ND	ug/kg	10	1		02/11/18 14:54	75-01-4	
Xylene (Total)	ND	ug/kg	10	1		02/11/18 14:54	1330-20-7	
m&p-Xylene	ND	ug/kg	10	1		02/11/18 14:54	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		02/11/18 14:54	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		02/11/18 14:54	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/11/18 14:54	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	1		02/11/18 14:54	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.0**	%	0.10	1		02/09/18 11:55		

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-3 **Lab ID: 92372445006** Collected: 02/06/18 15:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.1**	mg/kg	0.91	1	02/14/18 09:15	02/15/18 14:24	7440-38-2	
Barium	**161**	mg/kg	0.46	1	02/14/18 09:15	02/15/18 14:24	7440-39-3	
Cadmium	ND	mg/kg	0.091	1	02/14/18 09:15	02/15/18 14:24	7440-43-9	
Chromium	**8.9**	mg/kg	0.46	1	02/14/18 09:15	02/15/18 14:24	7440-47-3	
Lead	**7.3**	mg/kg	0.46	1	02/14/18 09:15	02/15/18 14:24	7439-92-1	
Selenium	**2.1**	mg/kg	0.91	1	02/14/18 09:15	02/15/18 14:24	7782-49-2	
Silver	ND	mg/kg	0.46	1	02/14/18 09:15	02/15/18 14:24	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.021**	mg/kg	0.0042	1	02/14/18 11:55	02/14/18 15:22	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	83-32-9	
Acenaphthylene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	208-96-8	
Aniline	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	62-53-3	
Anthracene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	207-08-9	
Benzoic Acid	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	65-85-0	
Benzyl alcohol	ND	ug/kg	868	1	02/08/18 12:25	02/13/18 19:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	868	1	02/08/18 12:25	02/13/18 19:46	59-50-7	
4-Chloroaniline	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	111-44-4	
2-Chloronaphthalene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	91-58-7	
2-Chlorophenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	7005-72-3	
Chrysene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	53-70-3	
Dibenzofuran	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	120-83-2	
Diethylphthalate	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	105-67-9	
Dimethylphthalate	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	868	1	02/08/18 12:25	02/13/18 19:46	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-3 **Lab ID: 92372445006** Collected: 02/06/18 15:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	117-81-7	
Fluoranthene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	206-44-0	
Fluorene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	77-47-4	
Hexachloroethane	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	193-39-5	
Isophorone	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	78-59-1	
1-Methylnaphthalene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	90-12-0	
2-Methylnaphthalene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	15831-10-4	
Naphthalene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	91-20-3	
2-Nitroaniline	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	88-74-4	
3-Nitroaniline	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	99-09-2	
4-Nitroaniline	ND	ug/kg	868	1	02/08/18 12:25	02/13/18 19:46	100-01-6	
Nitrobenzene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	98-95-3	
2-Nitrophenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	88-75-5	
4-Nitrophenol	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	108-60-1	
Pentachlorophenol	ND	ug/kg	2170	1	02/08/18 12:25	02/13/18 19:46	87-86-5	
Phenanthrene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	85-01-8	
Phenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	108-95-2	
Pyrene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	434	1	02/08/18 12:25	02/13/18 19:46	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	23-110	1	02/08/18 12:25	02/13/18 19:46	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-110	1	02/08/18 12:25	02/13/18 19:46	321-60-8	
Terphenyl-d14 (S)	57	%	28-110	1	02/08/18 12:25	02/13/18 19:46	1718-51-0	
Phenol-d6 (S)	67	%	22-110	1	02/08/18 12:25	02/13/18 19:46	13127-88-3	
2-Fluorophenol (S)	69	%	13-110	1	02/08/18 12:25	02/13/18 19:46	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110	1	02/08/18 12:25	02/13/18 19:46	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	101	1		02/11/18 15:13	67-64-1	
Benzene	ND	ug/kg	5.0	1		02/11/18 15:13	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-3 **Lab ID: 92372445006** Collected: 02/06/18 15:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		02/11/18 15:13	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		02/11/18 15:13	75-27-4	
Bromoform	ND	ug/kg	5.0	1		02/11/18 15:13	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		02/11/18 15:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		02/11/18 15:13	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		02/11/18 15:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		02/11/18 15:13	75-00-3	
Chloroform	ND	ug/kg	5.0	1		02/11/18 15:13	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		02/11/18 15:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		02/11/18 15:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		02/11/18 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		02/11/18 15:13	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		02/11/18 15:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		02/11/18 15:13	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		02/11/18 15:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		02/11/18 15:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		02/11/18 15:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		02/11/18 15:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		02/11/18 15:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		02/11/18 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		02/11/18 15:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		02/11/18 15:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		02/11/18 15:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		02/11/18 15:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		02/11/18 15:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		02/11/18 15:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		02/11/18 15:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		02/11/18 15:13	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	151	1		02/11/18 15:13	123-91-1	
Ethylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		02/11/18 15:13	87-68-3	
2-Hexanone	ND	ug/kg	50.4	1		02/11/18 15:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		02/11/18 15:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		02/11/18 15:13	99-87-6	
Methylene Chloride	ND	ug/kg	20.2	1		02/11/18 15:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.4	1		02/11/18 15:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		02/11/18 15:13	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		02/11/18 15:13	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-3 **Lab ID: 92372445006** Collected: 02/06/18 15:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	103-65-1	
Styrene	ND	ug/kg	5.0	1		02/11/18 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		02/11/18 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		02/11/18 15:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		02/11/18 15:13	127-18-4	
Toluene	ND	ug/kg	5.0	1		02/11/18 15:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		02/11/18 15:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		02/11/18 15:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		02/11/18 15:13	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		02/11/18 15:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		02/11/18 15:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		02/11/18 15:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		02/11/18 15:13	108-67-8	
Vinyl acetate	ND	ug/kg	50.4	1		02/11/18 15:13	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		02/11/18 15:13	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		02/11/18 15:13	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		02/11/18 15:13	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		02/11/18 15:13	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		02/11/18 15:13	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		02/11/18 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-132	1		02/11/18 15:13	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.7**	%	0.10	1		02/09/18 11:55		

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-4 **Lab ID: 92372445007** Collected: 02/06/18 15:40 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.78	1	02/14/18 09:15	02/15/18 14:27	7440-38-2	
Barium	**274**	mg/kg	0.39	1	02/14/18 09:15	02/15/18 14:27	7440-39-3	
Cadmium	ND	mg/kg	0.078	1	02/14/18 09:15	02/15/18 14:27	7440-43-9	
Chromium	**6.7**	mg/kg	0.39	1	02/14/18 09:15	02/15/18 14:27	7440-47-3	
Lead	**4.7**	mg/kg	0.39	1	02/14/18 09:15	02/15/18 14:27	7439-92-1	
Selenium	**2.5**	mg/kg	0.78	1	02/14/18 09:15	02/15/18 14:27	7782-49-2	
Silver	ND	mg/kg	0.39	1	02/14/18 09:15	02/15/18 14:27	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.012**	mg/kg	0.0032	1	02/14/18 11:55	02/14/18 15:25	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	83-32-9	
Acenaphthylene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	208-96-8	
Aniline	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	62-53-3	
Anthracene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	207-08-9	
Benzoic Acid	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	65-85-0	
Benzyl alcohol	ND	ug/kg	856	1	02/08/18 12:25	02/13/18 20:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	101-55-3	
Butylbenzylphthalate	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	856	1	02/08/18 12:25	02/13/18 20:14	59-50-7	
4-Chloroaniline	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	111-44-4	
2-Chloronaphthalene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	91-58-7	
2-Chlorophenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	7005-72-3	
Chrysene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	53-70-3	
Dibenzofuran	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	120-83-2	
Diethylphthalate	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	105-67-9	
Dimethylphthalate	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	131-11-3	
Di-n-butylphthalate	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	856	1	02/08/18 12:25	02/13/18 20:14	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-4 **Lab ID: 92372445007** Collected: 02/06/18 15:40 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	606-20-2	
Di-n-octylphthalate	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	117-81-7	
Fluoranthene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	206-44-0	
Fluorene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	87-68-3	
Hexachlorobenzene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	77-47-4	
Hexachloroethane	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	193-39-5	
Isophorone	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	78-59-1	
1-Methylnaphthalene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	90-12-0	
2-Methylnaphthalene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	15831-10-4	
Naphthalene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	91-20-3	
2-Nitroaniline	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	88-74-4	
3-Nitroaniline	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	99-09-2	
4-Nitroaniline	ND	ug/kg	856	1	02/08/18 12:25	02/13/18 20:14	100-01-6	
Nitrobenzene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	98-95-3	
2-Nitrophenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	88-75-5	
4-Nitrophenol	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	108-60-1	
Pentachlorophenol	ND	ug/kg	2140	1	02/08/18 12:25	02/13/18 20:14	87-86-5	
Phenanthrene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	85-01-8	
Phenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	108-95-2	
Pyrene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	428	1	02/08/18 12:25	02/13/18 20:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	75	%	23-110	1	02/08/18 12:25	02/13/18 20:14	4165-60-0	
2-Fluorobiphenyl (S)	70	%	30-110	1	02/08/18 12:25	02/13/18 20:14	321-60-8	
Terphenyl-d14 (S)	49	%	28-110	1	02/08/18 12:25	02/13/18 20:14	1718-51-0	
Phenol-d6 (S)	59	%	22-110	1	02/08/18 12:25	02/13/18 20:14	13127-88-3	
2-Fluorophenol (S)	65	%	13-110	1	02/08/18 12:25	02/13/18 20:14	367-12-4	
2,4,6-Tribromophenol (S)	70	%	27-110	1	02/08/18 12:25	02/13/18 20:14	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	114	1		02/11/18 15:33	67-64-1	
Benzene	ND	ug/kg	5.7	1		02/11/18 15:33	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-4 **Lab ID: 92372445007** Collected: 02/06/18 15:40 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		02/11/18 15:33	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		02/11/18 15:33	75-27-4	
Bromoform	ND	ug/kg	5.7	1		02/11/18 15:33	75-25-2	
Bromomethane	ND	ug/kg	11.4	1		02/11/18 15:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	114	1		02/11/18 15:33	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.7	1		02/11/18 15:33	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	108-90-7	
Chloroethane	ND	ug/kg	11.4	1		02/11/18 15:33	75-00-3	
Chloroform	ND	ug/kg	5.7	1		02/11/18 15:33	67-66-3	
Chloromethane	ND	ug/kg	11.4	1		02/11/18 15:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		02/11/18 15:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		02/11/18 15:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	1		02/11/18 15:33	96-12-8	
Dibromochloromethane	ND	ug/kg	5.7	1		02/11/18 15:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		02/11/18 15:33	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		02/11/18 15:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.4	1		02/11/18 15:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		02/11/18 15:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		02/11/18 15:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		02/11/18 15:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		02/11/18 15:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		02/11/18 15:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		02/11/18 15:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		02/11/18 15:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		02/11/18 15:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		02/11/18 15:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		02/11/18 15:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		02/11/18 15:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.7	1		02/11/18 15:33	108-20-3	
Ethylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		02/11/18 15:33	87-68-3	
2-Hexanone	ND	ug/kg	57.1	1		02/11/18 15:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		02/11/18 15:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		02/11/18 15:33	99-87-6	
Methylene Chloride	ND	ug/kg	22.8	1		02/11/18 15:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.1	1		02/11/18 15:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		02/11/18 15:33	1634-04-4	
Naphthalene	ND	ug/kg	5.7	1		02/11/18 15:33	91-20-3	
n-Propylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	103-65-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-4 **Lab ID: 92372445007** Collected: 02/06/18 15:40 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Styrene	ND	ug/kg	5.7	1		02/11/18 15:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		02/11/18 15:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		02/11/18 15:33	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		02/11/18 15:33	127-18-4	
Toluene	ND	ug/kg	5.7	1		02/11/18 15:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		02/11/18 15:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		02/11/18 15:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		02/11/18 15:33	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		02/11/18 15:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		02/11/18 15:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		02/11/18 15:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		02/11/18 15:33	108-67-8	
Vinyl acetate	ND	ug/kg	57.1	1		02/11/18 15:33	108-05-4	
Vinyl chloride	ND	ug/kg	11.4	1		02/11/18 15:33	75-01-4	
Xylene (Total)	ND	ug/kg	11.4	1		02/11/18 15:33	1330-20-7	
m&p-Xylene	ND	ug/kg	11.4	1		02/11/18 15:33	179601-23-1	
o-Xylene	ND	ug/kg	5.7	1		02/11/18 15:33	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		02/11/18 15:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/11/18 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-132	1		02/11/18 15:33	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.6**	%	0.10	1		02/09/18 11:55		

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-5 **Lab ID: 92372445008** Collected: 02/06/18 16:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.4**	mg/kg	0.95	1	02/14/18 09:15	02/15/18 14:37	7440-38-2	
Barium	**142**	mg/kg	0.48	1	02/14/18 09:15	02/15/18 14:37	7440-39-3	
Cadmium	ND	mg/kg	0.095	1	02/14/18 09:15	02/15/18 14:37	7440-43-9	
Chromium	**21.7**	mg/kg	0.48	1	02/14/18 09:15	02/15/18 14:37	7440-47-3	
Lead	**22.6**	mg/kg	0.48	1	02/14/18 09:15	02/15/18 14:37	7439-92-1	
Selenium	**3.1**	mg/kg	0.95	1	02/14/18 09:15	02/15/18 14:37	7782-49-2	
Silver	ND	mg/kg	0.48	1	02/14/18 09:15	02/15/18 14:37	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.033**	mg/kg	0.0045	1	02/14/18 11:55	02/14/18 15:27	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	83-32-9	
Acenaphthylene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	208-96-8	
Aniline	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	62-53-3	
Anthracene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	120-12-7	
Benzo(a)anthracene	**611**	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	56-55-3	
Benzo(a)pyrene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	50-32-8	
Benzo(b)fluoranthene	**541**	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	207-08-9	
Benzoic Acid	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	65-85-0	
Benzyl alcohol	ND	ug/kg	816	1	02/08/18 12:25	02/13/18 20:42	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	101-55-3	
Butylbenzylphthalate	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	816	1	02/08/18 12:25	02/13/18 20:42	59-50-7	
4-Chloroaniline	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	111-44-4	
2-Chloronaphthalene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	91-58-7	
2-Chlorophenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	7005-72-3	
Chrysene	**485**	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	53-70-3	
Dibenzofuran	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	120-83-2	
Diethylphthalate	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	105-67-9	
Dimethylphthalate	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	131-11-3	
Di-n-butylphthalate	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	816	1	02/08/18 12:25	02/13/18 20:42	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-5 **Lab ID: 92372445008** Collected: 02/06/18 16:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	606-20-2	
Di-n-octylphthalate	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	117-81-7	
Fluoranthene	**1370**	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	206-44-0	
Fluorene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	87-68-3	
Hexachlorobenzene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	77-47-4	
Hexachloroethane	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	193-39-5	
Isophorone	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	78-59-1	
1-Methylnaphthalene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	90-12-0	
2-Methylnaphthalene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	15831-10-4	
Naphthalene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	99-09-2	
4-Nitroaniline	ND	ug/kg	816	1	02/08/18 12:25	02/13/18 20:42	100-01-6	
Nitrobenzene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	98-95-3	
2-Nitrophenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	108-60-1	
Pentachlorophenol	ND	ug/kg	2040	1	02/08/18 12:25	02/13/18 20:42	87-86-5	
Phenanthrene	**1550**	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	85-01-8	
Phenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	108-95-2	
Pyrene	**1860**	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	408	1	02/08/18 12:25	02/13/18 20:42	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	78	%	23-110	1	02/08/18 12:25	02/13/18 20:42	4165-60-0	
2-Fluorobiphenyl (S)	67	%	30-110	1	02/08/18 12:25	02/13/18 20:42	321-60-8	
Terphenyl-d14 (S)	59	%	28-110	1	02/08/18 12:25	02/13/18 20:42	1718-51-0	
Phenol-d6 (S)	65	%	22-110	1	02/08/18 12:25	02/13/18 20:42	13127-88-3	
2-Fluorophenol (S)	72	%	13-110	1	02/08/18 12:25	02/13/18 20:42	367-12-4	
2,4,6-Tribromophenol (S)	79	%	27-110	1	02/08/18 12:25	02/13/18 20:42	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	116	1		02/11/18 15:53	67-64-1	
Benzene	ND	ug/kg	5.8	1		02/11/18 15:53	71-43-2	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-5 **Lab ID: 92372445008** Collected: 02/06/18 16:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		02/11/18 15:53	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		02/11/18 15:53	75-27-4	
Bromoform	ND	ug/kg	5.8	1		02/11/18 15:53	75-25-2	
Bromomethane	ND	ug/kg	11.6	1		02/11/18 15:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	116	1		02/11/18 15:53	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1		02/11/18 15:53	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	108-90-7	
Chloroethane	ND	ug/kg	11.6	1		02/11/18 15:53	75-00-3	
Chloroform	ND	ug/kg	5.8	1		02/11/18 15:53	67-66-3	
Chloromethane	ND	ug/kg	11.6	1		02/11/18 15:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		02/11/18 15:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		02/11/18 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		02/11/18 15:53	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		02/11/18 15:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		02/11/18 15:53	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		02/11/18 15:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.6	1		02/11/18 15:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		02/11/18 15:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		02/11/18 15:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		02/11/18 15:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/11/18 15:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/11/18 15:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		02/11/18 15:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		02/11/18 15:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		02/11/18 15:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		02/11/18 15:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		02/11/18 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		02/11/18 15:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	1		02/11/18 15:53	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	174	1		02/11/18 15:53	123-91-1	
Ethylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		02/11/18 15:53	87-68-3	
2-Hexanone	ND	ug/kg	58.1	1		02/11/18 15:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		02/11/18 15:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		02/11/18 15:53	99-87-6	
Methylene Chloride	ND	ug/kg	23.2	1		02/11/18 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	58.1	1		02/11/18 15:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		02/11/18 15:53	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		02/11/18 15:53	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-5 **Lab ID: 92372445008** Collected: 02/06/18 16:10 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	103-65-1	
Styrene	ND	ug/kg	5.8	1		02/11/18 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		02/11/18 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		02/11/18 15:53	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		02/11/18 15:53	127-18-4	
Toluene	ND	ug/kg	5.8	1		02/11/18 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		02/11/18 15:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		02/11/18 15:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		02/11/18 15:53	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		02/11/18 15:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		02/11/18 15:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		02/11/18 15:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		02/11/18 15:53	108-67-8	
Vinyl acetate	ND	ug/kg	58.1	1		02/11/18 15:53	108-05-4	
Vinyl chloride	ND	ug/kg	11.6	1		02/11/18 15:53	75-01-4	
Xylene (Total)	ND	ug/kg	11.6	1		02/11/18 15:53	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	1		02/11/18 15:53	179601-23-1	
o-Xylene	ND	ug/kg	5.8	1		02/11/18 15:53	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		02/11/18 15:53	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	1		02/11/18 15:53	460-00-4	
1,2-Dichloroethane-d4 (S)	126	%	70-132	1		02/11/18 15:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.4**	%	0.10	1		02/09/18 11:55		

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: T-2 **Lab ID: 92372445009** Collected: 02/06/18 18:30 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 08:23	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 08:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 08:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 08:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 08:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 08:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 08:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 08:23	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 08:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 08:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/10/18 08:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 08:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 08:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 08:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 08:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 08:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 08:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 08:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 08:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 08:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 08:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 08:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 08:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 08:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 08:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 08:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 08:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 08:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 08:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 08:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 08:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 08:23	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 08:23	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 08:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 08:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 08:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 08:23	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 08:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 08:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 08:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 08:23	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 08:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 08:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 08:23	79-34-5	

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: T-2 **Lab ID: 92372445009** Collected: 02/06/18 18:30 Received: 02/07/18 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 08:23	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 08:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 08:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 08:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 08:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 08:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 08:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 08:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 08:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 08:23	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 08:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 08:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 08:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/10/18 08:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		02/10/18 08:23	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		02/10/18 08:23	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-D2 **Lab ID: 92372445010** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.88	1	02/14/18 09:15	02/15/18 14:40	7440-38-2	
Barium	**239**	mg/kg	0.44	1	02/14/18 09:15	02/15/18 14:40	7440-39-3	
Cadmium	ND	mg/kg	0.088	1	02/14/18 09:15	02/15/18 14:40	7440-43-9	
Chromium	**7.6**	mg/kg	0.44	1	02/14/18 09:15	02/15/18 14:40	7440-47-3	
Lead	**4.9**	mg/kg	0.44	1	02/14/18 09:15	02/15/18 14:40	7439-92-1	
Selenium	**2.2**	mg/kg	0.88	1	02/14/18 09:15	02/15/18 14:40	7782-49-2	
Silver	ND	mg/kg	0.44	1	02/14/18 09:15	02/15/18 14:40	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.012**	mg/kg	0.0053	1	02/14/18 11:55	02/14/18 15:29	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	83-32-9	
Acenaphthylene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	208-96-8	
Aniline	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	62-53-3	
Anthracene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	207-08-9	
Benzoic Acid	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	65-85-0	
Benzyl alcohol	ND	ug/kg	830	1	02/08/18 12:25	02/14/18 10:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	101-55-3	
Butylbenzylphthalate	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	830	1	02/08/18 12:25	02/14/18 10:07	59-50-7	
4-Chloroaniline	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	111-44-4	
2-Chloronaphthalene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	91-58-7	
2-Chlorophenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	7005-72-3	
Chrysene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	53-70-3	
Dibenzofuran	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	120-83-2	
Diethylphthalate	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	105-67-9	
Dimethylphthalate	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	830	1	02/08/18 12:25	02/14/18 10:07	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-D2 **Lab ID: 92372445010** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	117-81-7	
Fluoranthene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	206-44-0	
Fluorene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	77-47-4	
Hexachloroethane	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	193-39-5	
Isophorone	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	78-59-1	
1-Methylnaphthalene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	90-12-0	
2-Methylnaphthalene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	15831-10-4	
Naphthalene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	91-20-3	
2-Nitroaniline	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	88-74-4	
3-Nitroaniline	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	99-09-2	
4-Nitroaniline	ND	ug/kg	830	1	02/08/18 12:25	02/14/18 10:07	100-01-6	
Nitrobenzene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	98-95-3	
2-Nitrophenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	88-75-5	
4-Nitrophenol	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	108-60-1	
Pentachlorophenol	ND	ug/kg	2070	1	02/08/18 12:25	02/14/18 10:07	87-86-5	
Phenanthrene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	85-01-8	
Phenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	108-95-2	
Pyrene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	415	1	02/08/18 12:25	02/14/18 10:07	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%	23-110	1	02/08/18 12:25	02/14/18 10:07	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-110	1	02/08/18 12:25	02/14/18 10:07	321-60-8	
Terphenyl-d14 (S)	35	%	28-110	1	02/08/18 12:25	02/14/18 10:07	1718-51-0	
Phenol-d6 (S)	58	%	22-110	1	02/08/18 12:25	02/14/18 10:07	13127-88-3	
2-Fluorophenol (S)	63	%	13-110	1	02/08/18 12:25	02/14/18 10:07	367-12-4	
2,4,6-Tribromophenol (S)	69	%	27-110	1	02/08/18 12:25	02/14/18 10:07	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	94.6	1		02/11/18 16:12	67-64-1	
Benzene	ND	ug/kg	4.7	1		02/11/18 16:12	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-D2 **Lab ID: 92372445010** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		02/11/18 16:12	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		02/11/18 16:12	75-27-4	
Bromoform	ND	ug/kg	4.7	1		02/11/18 16:12	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		02/11/18 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.6	1		02/11/18 16:12	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		02/11/18 16:12	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		02/11/18 16:12	75-00-3	
Chloroform	ND	ug/kg	4.7	1		02/11/18 16:12	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		02/11/18 16:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		02/11/18 16:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		02/11/18 16:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		02/11/18 16:12	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		02/11/18 16:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		02/11/18 16:12	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		02/11/18 16:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		02/11/18 16:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		02/11/18 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		02/11/18 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		02/11/18 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		02/11/18 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		02/11/18 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		02/11/18 16:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		02/11/18 16:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		02/11/18 16:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		02/11/18 16:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		02/11/18 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		02/11/18 16:12	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		02/11/18 16:12	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	142	1		02/11/18 16:12	123-91-1	
Ethylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		02/11/18 16:12	87-68-3	
2-Hexanone	ND	ug/kg	47.3	1		02/11/18 16:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		02/11/18 16:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		02/11/18 16:12	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		02/11/18 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.3	1		02/11/18 16:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		02/11/18 16:12	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		02/11/18 16:12	91-20-3	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372445

Sample: GP-D2 **Lab ID: 92372445010** Collected: 02/06/18 14:50 Received: 02/07/18 16:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	103-65-1	
Styrene	ND	ug/kg	4.7	1		02/11/18 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		02/11/18 16:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		02/11/18 16:12	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		02/11/18 16:12	127-18-4	
Toluene	ND	ug/kg	4.7	1		02/11/18 16:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		02/11/18 16:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		02/11/18 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		02/11/18 16:12	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		02/11/18 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		02/11/18 16:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		02/11/18 16:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		02/11/18 16:12	108-67-8	
Vinyl acetate	ND	ug/kg	47.3	1		02/11/18 16:12	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		02/11/18 16:12	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		02/11/18 16:12	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		02/11/18 16:12	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		02/11/18 16:12	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		02/11/18 16:12	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		02/11/18 16:12	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		02/11/18 16:12	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.7**	%	0.10	1		02/09/18 11:55		

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397894 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92372445001, 92372445003

METHOD BLANK: 2206937 Matrix: Water
Associated Lab Samples: 92372445001, 92372445003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/15/18 13:12	

LABORATORY CONTROL SAMPLE: 2206938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206939 2206940

Parameter	Units	92372445001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	99	99	75-125	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397992 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

METHOD BLANK: 2207325 Matrix: Solid
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	02/14/18 14:29	

LABORATORY CONTROL SAMPLE: 2207326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.083	0.082	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207327 2207328

Parameter	Units	92371424001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	ND	.071	.061	0.061	0.052	85	86	75-125	15	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397919 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

METHOD BLANK: 2207053 Matrix: Solid
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/15/18 13:58	
Barium	mg/kg	ND	0.50	02/15/18 13:58	
Cadmium	mg/kg	ND	0.10	02/15/18 13:58	
Chromium	mg/kg	ND	0.50	02/15/18 13:58	
Lead	mg/kg	ND	0.50	02/15/18 13:58	
Selenium	mg/kg	ND	1.0	02/15/18 13:58	
Silver	mg/kg	ND	0.50	02/15/18 13:58	

LABORATORY CONTROL SAMPLE: 2207054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.0	94	80-120	
Barium	mg/kg	50	52.3	105	80-120	
Cadmium	mg/kg	50	49.0	98	80-120	
Chromium	mg/kg	50	51.1	102	80-120	
Lead	mg/kg	50	47.3	95	80-120	
Selenium	mg/kg	50	45.5	91	80-120	
Silver	mg/kg	25	24.8	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207055 2207056

Parameter	Units	92371034001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	ND	69.2	65.9	54.1	52.7	77	79	75-125	3	
Barium	mg/kg	131	69.2	65.9	209	191	112	91	75-125	9	
Cadmium	mg/kg	ND	69.2	65.9	59.1	58.0	85	88	75-125	2	
Chromium	mg/kg	41.0	69.2	65.9	111	102	101	92	75-125	9	
Lead	mg/kg	9.8	69.2	65.9	65.0	62.9	80	81	75-125	3	
Selenium	mg/kg	1.8	69.2	65.9	55.7	54.8	78	80	75-125	2	
Silver	mg/kg	ND	34.7	32.9	30.9	30.3	89	92	75-125	2	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397154 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92372445001, 92372445003

METHOD BLANK: 2202513 Matrix: Water
Associated Lab Samples: 92372445001, 92372445003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	02/11/18 19:10	

LABORATORY CONTROL SAMPLE: 2202514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	503	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2202515 2202516

Parameter	Units	92372312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	522	481	104	96	75-125	8	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397536 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92372445001, 92372445002, 92372445003, 92372445009

METHOD BLANK: 2204829 Matrix: Water
Associated Lab Samples: 92372445001, 92372445002, 92372445003, 92372445009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/10/18 07:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/10/18 07:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/10/18 07:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/10/18 07:49	
1,1-Dichloroethane	ug/L	ND	1.0	02/10/18 07:49	
1,1-Dichloroethene	ug/L	ND	1.0	02/10/18 07:49	
1,1-Dichloropropene	ug/L	ND	1.0	02/10/18 07:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/10/18 07:49	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/10/18 07:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/10/18 07:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/10/18 07:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/10/18 07:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/10/18 07:49	
1,2-Dichloroethane	ug/L	ND	1.0	02/10/18 07:49	
1,2-Dichloropropane	ug/L	ND	1.0	02/10/18 07:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/10/18 07:49	
1,3-Dichloropropane	ug/L	ND	1.0	02/10/18 07:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/10/18 07:49	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	02/10/18 07:49	
2,2-Dichloropropane	ug/L	ND	1.0	02/10/18 07:49	
2-Butanone (MEK)	ug/L	ND	5.0	02/10/18 07:49	
2-Chlorotoluene	ug/L	ND	1.0	02/10/18 07:49	
2-Hexanone	ug/L	ND	5.0	02/10/18 07:49	
4-Chlorotoluene	ug/L	ND	1.0	02/10/18 07:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/10/18 07:49	
Acetone	ug/L	ND	25.0	02/10/18 07:49	
Benzene	ug/L	ND	1.0	02/10/18 07:49	
Bromobenzene	ug/L	ND	1.0	02/10/18 07:49	
Bromochloromethane	ug/L	ND	1.0	02/10/18 07:49	
Bromodichloromethane	ug/L	ND	1.0	02/10/18 07:49	
Bromoform	ug/L	ND	1.0	02/10/18 07:49	
Bromomethane	ug/L	ND	2.0	02/10/18 07:49	
Carbon tetrachloride	ug/L	ND	1.0	02/10/18 07:49	
Chlorobenzene	ug/L	ND	1.0	02/10/18 07:49	
Chloroethane	ug/L	ND	1.0	02/10/18 07:49	
Chloroform	ug/L	ND	1.0	02/10/18 07:49	C9
Chloromethane	ug/L	ND	1.0	02/10/18 07:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/10/18 07:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/10/18 07:49	
Dibromochloromethane	ug/L	ND	1.0	02/10/18 07:49	
Dibromomethane	ug/L	ND	1.0	02/10/18 07:49	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

METHOD BLANK: 2204829 Matrix: Water
Associated Lab Samples: 92372445001, 92372445002, 92372445003, 92372445009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	02/10/18 07:49	
Diisopropyl ether	ug/L	ND	1.0	02/10/18 07:49	
Ethylbenzene	ug/L	ND	1.0	02/10/18 07:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/10/18 07:49	
m&p-Xylene	ug/L	ND	2.0	02/10/18 07:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/10/18 07:49	
Methylene Chloride	ug/L	ND	2.0	02/10/18 07:49	
Naphthalene	ug/L	ND	1.0	02/10/18 07:49	
o-Xylene	ug/L	ND	1.0	02/10/18 07:49	
p-Isopropyltoluene	ug/L	ND	1.0	02/10/18 07:49	
Styrene	ug/L	ND	1.0	02/10/18 07:49	
Tetrachloroethene	ug/L	ND	1.0	02/10/18 07:49	
Toluene	ug/L	ND	1.0	02/10/18 07:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/10/18 07:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/10/18 07:49	
Trichloroethene	ug/L	ND	1.0	02/10/18 07:49	
Trichlorofluoromethane	ug/L	ND	1.0	02/10/18 07:49	
Vinyl acetate	ug/L	ND	2.0	02/10/18 07:49	
Vinyl chloride	ug/L	ND	1.0	02/10/18 07:49	
Xylene (Total)	ug/L	ND	1.0	02/10/18 07:49	
1,2-Dichloroethane-d4 (S)	%	106	70-130	02/10/18 07:49	
4-Bromofluorobenzene (S)	%	100	70-130	02/10/18 07:49	
Toluene-d8 (S)	%	106	70-130	02/10/18 07:49	

LABORATORY CONTROL SAMPLE: 2204830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.6	105	70-130	
1,1,1-Trichloroethane	ug/L	50	54.1	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	70-130	
1,1,2-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethane	ug/L	50	49.0	98	70-130	
1,1-Dichloroethene	ug/L	50	52.6	105	70-132	
1,1-Dichloropropene	ug/L	50	57.0	114	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.7	93	70-135	
1,2,3-Trichloropropane	ug/L	50	51.5	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.5	95	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dichloroethane	ug/L	50	51.1	102	70-130	
1,2-Dichloropropane	ug/L	50	54.1	108	70-130	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,3-Dichloropropane	ug/L	50	57.9	116	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2204830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1450	145	71-125	L1
2,2-Dichloropropane	ug/L	50	44.8	90	58-145	
2-Butanone (MEK)	ug/L	100	112	112	70-145	
2-Chlorotoluene	ug/L	50	49.0	98	70-130	
2-Hexanone	ug/L	100	104	104	70-144	
4-Chlorotoluene	ug/L	50	49.6	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.4	99	70-140	
Acetone	ug/L	100	104	104	50-175	
Benzene	ug/L	50	51.1	102	70-130	
Bromobenzene	ug/L	50	48.5	97	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	54.0	108	70-130	
Bromoform	ug/L	50	50.7	101	70-130	
Bromomethane	ug/L	50	39.6	79	54-130	
Carbon tetrachloride	ug/L	50	50.7	101	70-132	
Chlorobenzene	ug/L	50	50.5	101	70-130	
Chloroethane	ug/L	50	51.9	104	64-134	
Chloroform	ug/L	50	51.1	102	70-130	
Chloromethane	ug/L	50	36.7	73	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dibromomethane	ug/L	50	46.3	93	70-131	
Dichlorodifluoromethane	ug/L	50	44.2	88	56-130	
Diisopropyl ether	ug/L	50	56.7	113	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	41.9	84	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	55.9	112	70-130	
Methylene Chloride	ug/L	50	55.3	111	63-130	
Naphthalene	ug/L	50	50.1	100	70-138	
o-Xylene	ug/L	50	51.2	102	70-130	
p-Isopropyltoluene	ug/L	50	49.4	99	70-130	
Styrene	ug/L	50	48.7	97	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	48.1	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	70-132	
Trichloroethene	ug/L	50	52.1	104	70-130	
Trichlorofluoromethane	ug/L	50	45.1	90	62-133	
Vinyl acetate	ug/L	100	107	107	66-157	
Vinyl chloride	ug/L	50	50.0	100	50-150	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2204832

Parameter	Units	92372080007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.9	115	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	25.3	127	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	23.0	115	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.5	113	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.5	112	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.9	124	70-166	
1,1-Dichloropropene	ug/L	ND	20	26.1	131	70-130	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	21.6	108	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	23.5	118	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	21.3	107	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.2	116	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.9	109	70-130	
1,2-Dichloroethane	ug/L	ND	20	23.8	119	70-130	
1,2-Dichloropropane	ug/L	ND	20	24.8	124	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,3-Dichloropropane	ug/L	ND	20	25.4	127	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.7	109	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	595	149	70-130	M0
2,2-Dichloropropane	ug/L	ND	20	25.6	128	70-130	
2-Butanone (MEK)	ug/L	ND	40	45.3	113	70-130	
2-Chlorotoluene	ug/L	ND	20	22.9	115	70-130	
2-Hexanone	ug/L	ND	40	49.2	123	70-130	
4-Chlorotoluene	ug/L	ND	20	23.4	117	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	43.5	109	70-130	
Acetone	ug/L	ND	40	44.1	110	70-130	
Benzene	ug/L	ND	20	23.3	117	70-148	
Bromobenzene	ug/L	ND	20	22.6	113	70-130	
Bromochloromethane	ug/L	ND	20	23.1	116	70-130	
Bromodichloromethane	ug/L	ND	20	25.0	125	70-130	
Bromoform	ug/L	ND	20	23.0	115	70-130	
Bromomethane	ug/L	ND	20	21.3	107	70-130	
Carbon tetrachloride	ug/L	ND	20	24.6	123	70-130	
Chlorobenzene	ug/L	ND	20	23.2	116	70-146	
Chloroethane	ug/L	ND	20	25.2	126	70-130	
Chloroform	ug/L	ND	20	23.6	118	70-130	
Chloromethane	ug/L	14.4	20	26.2	59	70-130	M1
cis-1,2-Dichloroethene	ug/L	ND	20	23.7	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	24.5	123	70-130	
Dibromochloromethane	ug/L	ND	20	23.6	118	70-130	
Dibromomethane	ug/L	ND	20	20.8	104	70-130	
Dichlorodifluoromethane	ug/L	ND	20	18.9	95	70-130	
Diisopropyl ether	ug/L	ND	20	24.2	121	70-130	
Ethylbenzene	ug/L	ND	20	23.2	116	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	20.0	100	70-130	
m&p-Xylene	ug/L	ND	40	47.4	119	70-130	
Methyl-tert-butyl ether	ug/L	0.73J	20	25.0	122	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2204832

Parameter	Units	92372080007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	23.8	119	70-130	
Naphthalene	ug/L	ND	20	22.6	113	70-130	
o-Xylene	ug/L	ND	20	23.3	116	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.9	115	70-130	
Styrene	ug/L	ND	20	22.1	111	70-130	
Tetrachloroethene	ug/L	ND	20	22.6	113	70-130	
Toluene	ug/L	ND	20	22.3	112	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.5	117	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	24.1	120	70-130	
Trichloroethene	ug/L	ND	20	24.0	120	69-151	
Trichlorofluoromethane	ug/L	ND	20	21.5	107	70-130	
Vinyl acetate	ug/L	ND	40	46.7	117	70-130	
Vinyl chloride	ug/L	ND	20	22.5	113	70-130	
Xylene (Total)	ug/L	ND	60	70.7	118	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 2204831

Parameter	Units	92371930001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	1.2J	1.6J		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

SAMPLE DUPLICATE: 2204831

Parameter	Units	92371930001 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	9.5	4.1	78	D6
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	0.72J	ND		
Methyl-tert-butyl ether	ug/L	0.60J	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	0.65J	.39J		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	107	107	0	
4-Bromofluorobenzene (S)	%	99	98	1	
Toluene-d8 (S)	%	108	111	2	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397571 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

METHOD BLANK: 2205091 Matrix: Solid
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1,1-Trichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1,2-Trichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1-Dichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1-Dichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
1,1-Dichloropropene	ug/kg	ND	6.2	02/11/18 13:15	
1,2,3-Trichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2,3-Trichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,2,4-Trichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2,4-Trimethylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,3,5-Trimethylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,3-Dichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,3-Dichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,4-Dichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,4-Dioxane (p-Dioxane)	ug/kg	ND	187	02/11/18 13:15	
2,2-Dichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
2-Butanone (MEK)	ug/kg	ND	125	02/11/18 13:15	
2-Chlorotoluene	ug/kg	ND	6.2	02/11/18 13:15	
2-Hexanone	ug/kg	ND	62.3	02/11/18 13:15	
4-Chlorotoluene	ug/kg	ND	6.2	02/11/18 13:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	62.3	02/11/18 13:15	
Acetone	ug/kg	ND	125	02/11/18 13:15	
Benzene	ug/kg	ND	6.2	02/11/18 13:15	
Bromobenzene	ug/kg	ND	6.2	02/11/18 13:15	
Bromochloromethane	ug/kg	ND	6.2	02/11/18 13:15	
Bromodichloromethane	ug/kg	ND	6.2	02/11/18 13:15	
Bromoform	ug/kg	ND	6.2	02/11/18 13:15	
Bromomethane	ug/kg	ND	12.5	02/11/18 13:15	
Carbon tetrachloride	ug/kg	ND	6.2	02/11/18 13:15	
Chlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
Chloroethane	ug/kg	ND	12.5	02/11/18 13:15	
Chloroform	ug/kg	ND	6.2	02/11/18 13:15	
Chloromethane	ug/kg	ND	12.5	02/11/18 13:15	
cis-1,2-Dichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
cis-1,3-Dichloropropene	ug/kg	ND	6.2	02/11/18 13:15	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

METHOD BLANK: 2205091 Matrix: Solid
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	6.2	02/11/18 13:15	
Dibromomethane	ug/kg	ND	6.2	02/11/18 13:15	
Dichlorodifluoromethane	ug/kg	ND	12.5	02/11/18 13:15	
Diisopropyl ether	ug/kg	ND	6.2	02/11/18 13:15	
Ethylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Hexachloro-1,3-butadiene	ug/kg	ND	6.2	02/11/18 13:15	
Isopropylbenzene (Cumene)	ug/kg	ND	6.2	02/11/18 13:15	
m&p-Xylene	ug/kg	ND	12.5	02/11/18 13:15	
Methyl-tert-butyl ether	ug/kg	ND	6.2	02/11/18 13:15	
Methylene Chloride	ug/kg	ND	24.9	02/11/18 13:15	
n-Butylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
n-Propylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Naphthalene	ug/kg	ND	6.2	02/11/18 13:15	
o-Xylene	ug/kg	ND	6.2	02/11/18 13:15	
p-Isopropyltoluene	ug/kg	ND	6.2	02/11/18 13:15	
sec-Butylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Styrene	ug/kg	ND	6.2	02/11/18 13:15	
tert-Butylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Tetrachloroethene	ug/kg	ND	6.2	02/11/18 13:15	
Toluene	ug/kg	ND	6.2	02/11/18 13:15	
trans-1,2-Dichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
trans-1,3-Dichloropropene	ug/kg	ND	6.2	02/11/18 13:15	
Trichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
Trichlorofluoromethane	ug/kg	ND	6.2	02/11/18 13:15	
Vinyl acetate	ug/kg	ND	62.3	02/11/18 13:15	
Vinyl chloride	ug/kg	ND	12.5	02/11/18 13:15	
Xylene (Total)	ug/kg	ND	12.5	02/11/18 13:15	
1,2-Dichloroethane-d4 (S)	%	109	70-132	02/11/18 13:15	
4-Bromofluorobenzene (S)	%	97	70-130	02/11/18 13:15	
Toluene-d8 (S)	%	100	70-130	02/11/18 13:15	

LABORATORY CONTROL SAMPLE: 2205092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	63.5	64.4	102	74-137	
1,1,1-Trichloroethane	ug/kg	63.5	61.5	97	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	63.5	63.7	100	72-141	
1,1,2-Trichloroethane	ug/kg	63.5	64.6	102	78-138	
1,1-Dichloroethane	ug/kg	63.5	61.5	97	69-134	
1,1-Dichloroethene	ug/kg	63.5	63.0	99	67-138	
1,1-Dichloropropene	ug/kg	63.5	60.9	96	69-139	
1,2,3-Trichlorobenzene	ug/kg	63.5	70.4	111	70-146	
1,2,3-Trichloropropane	ug/kg	63.5	71.5	113	69-144	
1,2,4-Trichlorobenzene	ug/kg	63.5	68.5	108	68-148	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2205092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	63.5	65.9	104	74-137	
1,2-Dibromo-3-chloropropane	ug/kg	63.5	72.1	114	65-140	
1,2-Dibromoethane (EDB)	ug/kg	63.5	64.4	101	77-135	
1,2-Dichlorobenzene	ug/kg	63.5	68.2	107	77-141	
1,2-Dichloroethane	ug/kg	63.5	62.8	99	65-137	
1,2-Dichloropropane	ug/kg	63.5	61.7	97	72-136	
1,3,5-Trimethylbenzene	ug/kg	63.5	64.1	101	76-133	
1,3-Dichlorobenzene	ug/kg	63.5	65.9	104	74-138	
1,3-Dichloropropane	ug/kg	63.5	66.2	104	71-139	
1,4-Dichlorobenzene	ug/kg	63.5	66.9	105	76-138	
1,4-Dioxane (p-Dioxane)	ug/kg	1270	1480	117	54-154	
2,2-Dichloropropane	ug/kg	63.5	62.3	98	68-137	
2-Butanone (MEK)	ug/kg	127	130	103	58-147	
2-Chlorotoluene	ug/kg	63.5	64.0	101	73-139	
2-Hexanone	ug/kg	127	155	123	62-145	
4-Chlorotoluene	ug/kg	63.5	64.5	102	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	127	143	113	64-149	
Acetone	ug/kg	127	113J	89	53-153	
Benzene	ug/kg	63.5	59.6	94	73-135	
Bromobenzene	ug/kg	63.5	65.4	103	75-133	
Bromochloromethane	ug/kg	63.5	60.2	95	73-134	
Bromodichloromethane	ug/kg	63.5	62.4	98	71-135	
Bromoform	ug/kg	63.5	71.5	113	66-141	
Bromomethane	ug/kg	63.5	66.3	105	53-160	
Carbon tetrachloride	ug/kg	63.5	60.6	96	60-145	
Chlorobenzene	ug/kg	63.5	62.4	98	78-130	
Chloroethane	ug/kg	63.5	74.4	117	64-149	
Chloroform	ug/kg	63.5	57.8	91	70-134	
Chloromethane	ug/kg	63.5	60.5	95	52-150	
cis-1,2-Dichloroethene	ug/kg	63.5	63.9	101	70-133	
cis-1,3-Dichloropropene	ug/kg	63.5	64.2	101	68-134	
Dibromochloromethane	ug/kg	63.5	65.0	103	71-138	
Dibromomethane	ug/kg	63.5	61.6	97	74-130	
Dichlorodifluoromethane	ug/kg	63.5	61.2	96	40-160	
Diisopropyl ether	ug/kg	63.5	63.3	100	69-141	
Ethylbenzene	ug/kg	63.5	63.1	99	75-133	
Hexachloro-1,3-butadiene	ug/kg	63.5	66.3	105	68-143	
Isopropylbenzene (Cumene)	ug/kg	63.5	64.8	102	76-143	
m&p-Xylene	ug/kg	127	126	99	75-136	
Methyl-tert-butyl ether	ug/kg	63.5	62.7	99	68-144	
Methylene Chloride	ug/kg	63.5	62.5	99	45-154	
n-Butylbenzene	ug/kg	63.5	65.1	103	72-137	
n-Propylbenzene	ug/kg	63.5	63.8	101	76-136	
Naphthalene	ug/kg	63.5	75.5	119	68-151	
o-Xylene	ug/kg	63.5	64.2	101	76-141	
p-Isopropyltoluene	ug/kg	63.5	64.9	102	76-140	
sec-Butylbenzene	ug/kg	63.5	64.3	101	79-139	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2205092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	63.5	64.7	102	79-137	
tert-Butylbenzene	ug/kg	63.5	59.0	93	74-143	
Tetrachloroethene	ug/kg	63.5	57.6	91	71-138	
Toluene	ug/kg	63.5	61.9	98	74-131	
trans-1,2-Dichloroethene	ug/kg	63.5	62.3	98	67-135	
trans-1,3-Dichloropropene	ug/kg	63.5	63.5	100	65-146	
Trichloroethene	ug/kg	63.5	66.3	105	67-135	
Trichlorofluoromethane	ug/kg	63.5	59.3	94	59-144	
Vinyl acetate	ug/kg	127	72.1	57	40-160	
Vinyl chloride	ug/kg	63.5	66.2	104	56-141	
Xylene (Total)	ug/kg	190	190	100	76-137	
1,2-Dichloroethane-d4 (S)	%			103	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2205207

Parameter	Units	92372510001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	21.5	18.2	84	70-130	
1,1,1-Trichloroethane	ug/kg	ND	21.5	19.3	90	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	21.5	17.7	82	70-130	
1,1,2-Trichloroethane	ug/kg	ND	21.5	18.7	87	70-130	
1,1-Dichloroethane	ug/kg	ND	21.5	19.0	88	70-130	
1,1-Dichloroethene	ug/kg	ND	21.5	18.9	87	49-180	
1,1-Dichloropropene	ug/kg	ND	21.5	18.2	84	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	21.5	12.1	56	70-130	M1
1,2,3-Trichloropropane	ug/kg	ND	21.5	18.8	87	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	21.5	12.2	57	70-130	M1
1,2,4-Trimethylbenzene	ug/kg	ND	21.5	18.7	86	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	21.5	18.5	86	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	21.5	17.7	82	70-130	
1,2-Dichlorobenzene	ug/kg	ND	21.5	15.7	73	70-130	
1,2-Dichloroethane	ug/kg	ND	21.5	18.9	88	70-130	
1,2-Dichloropropane	ug/kg	ND	21.5	18.6	86	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	21.5	18.9	87	70-130	
1,3-Dichlorobenzene	ug/kg	ND	21.5	15.9	74	70-130	
1,3-Dichloropropane	ug/kg	ND	21.5	19.0	88	70-130	
1,4-Dichlorobenzene	ug/kg	ND	21.5	15.5	72	70-130	
1,4-Dioxane (p-Dioxane)	ug/kg	ND	432	453	105	70-130	
2,2-Dichloropropane	ug/kg	ND	21.5	19.5	90	70-130	
2-Butanone (MEK)	ug/kg	ND	43.2	41.2J	95	70-130	
2-Chlorotoluene	ug/kg	ND	21.5	18.4	85	70-130	
2-Hexanone	ug/kg	ND	43.2	38.7J	90	70-130	
4-Chlorotoluene	ug/kg	ND	21.5	17.2	80	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	43.2	40.2J	93	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2205207

Parameter	Units	92372510001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/kg	ND	43.2	137	318	70-130	M1
Benzene	ug/kg	ND	21.5	18.4	85	50-166	
Bromobenzene	ug/kg	ND	21.5	17.6	81	70-130	
Bromochloromethane	ug/kg	ND	21.5	18.4	85	70-130	
Bromodichloromethane	ug/kg	ND	21.5	18.4	85	70-130	
Bromoform	ug/kg	ND	21.5	18.0	83	70-130	
Bromomethane	ug/kg	ND	21.5	20.1	93	70-130	
Carbon tetrachloride	ug/kg	ND	21.5	19.2	89	70-130	
Chlorobenzene	ug/kg	ND	21.5	17.4	81	43-169	
Chloroethane	ug/kg	ND	21.5	22.3	103	70-130	
Chloroform	ug/kg	ND	21.5	18.8	87	70-130	
Chloromethane	ug/kg	ND	21.5	16.3	75	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	21.5	18.5	86	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	21.5	17.1	79	70-130	
Dibromochloromethane	ug/kg	ND	21.5	17.9	83	70-130	
Dibromomethane	ug/kg	ND	21.5	17.6	82	70-130	
Dichlorodifluoromethane	ug/kg	ND	21.5	15.3	71	70-130	
Diisopropyl ether	ug/kg	ND	21.5	19.4	90	70-130	
Ethylbenzene	ug/kg	ND	21.5	18.5	86	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	21.5	15.6	72	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	21.5	18.8	87	70-130	
m&p-Xylene	ug/kg	ND	43.2	36.6	85	70-130	
Methyl-tert-butyl ether	ug/kg	ND	21.5	19.1	89	70-130	
Methylene Chloride	ug/kg	ND	21.5	17.2J	80	70-130	
n-Butylbenzene	ug/kg	ND	21.5	17.0	79	70-130	
n-Propylbenzene	ug/kg	ND	21.5	19.0	88	70-130	
Naphthalene	ug/kg	ND	21.5	13.8	64	70-130	M1
o-Xylene	ug/kg	ND	21.5	18.2	84	70-130	
p-Isopropyltoluene	ug/kg	ND	21.5	18.2	84	70-130	
sec-Butylbenzene	ug/kg	ND	21.5	19.1	88	70-130	
Styrene	ug/kg	ND	21.5	16.2	75	70-130	
tert-Butylbenzene	ug/kg	ND	21.5	17.8	83	70-130	
Tetrachloroethene	ug/kg	ND	21.5	17.8	82	70-130	
Toluene	ug/kg	ND	21.5	18.9	88	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	21.5	17.9	83	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	21.5	16.0	74	70-130	
Trichloroethene	ug/kg	ND	21.5	18.1	84	49-167	
Trichlorofluoromethane	ug/kg	ND	21.5	18.7	87	70-130	
Vinyl acetate	ug/kg	ND	43.2	13.8J	32	70-130	M1
Vinyl chloride	ug/kg	ND	21.5	18.0	84	70-130	
Xylene (Total)	ug/kg	ND	64.8	54.8	85	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				98	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

SAMPLE DUPLICATE: 2205206

Parameter	Units	92372445004 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	40.4J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

SAMPLE DUPLICATE: 2205206

Parameter	Units	92372445004 Result	Dup Result	RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	121	118	18	
4-Bromofluorobenzene (S)	%	98	94	19	
Toluene-d8 (S)	%	102	100	16	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397389 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV RVE
Associated Lab Samples: 92372445001, 92372445003

METHOD BLANK: 2203773 Matrix: Water
Associated Lab Samples: 92372445001, 92372445003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/12/18 08:32	
1,2-Dichlorobenzene	ug/L	ND	10.0	02/12/18 08:32	
1,3-Dichlorobenzene	ug/L	ND	10.0	02/12/18 08:32	
1,4-Dichlorobenzene	ug/L	ND	10.0	02/12/18 08:32	
1-Methylnaphthalene	ug/L	ND	10.0	02/12/18 08:32	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	02/12/18 08:32	
2,4,5-Trichlorophenol	ug/L	ND	10.0	02/12/18 08:32	
2,4,6-Trichlorophenol	ug/L	ND	10.0	02/12/18 08:32	
2,4-Dichlorophenol	ug/L	ND	10.0	02/12/18 08:32	
2,4-Dimethylphenol	ug/L	ND	10.0	02/12/18 08:32	
2,4-Dinitrophenol	ug/L	ND	50.0	02/12/18 08:32	
2,4-Dinitrotoluene	ug/L	ND	10.0	02/12/18 08:32	
2,6-Dinitrotoluene	ug/L	ND	10.0	02/12/18 08:32	
2-Chloronaphthalene	ug/L	ND	10.0	02/12/18 08:32	
2-Chlorophenol	ug/L	ND	10.0	02/12/18 08:32	
2-Methylnaphthalene	ug/L	ND	10.0	02/12/18 08:32	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/12/18 08:32	
2-Nitroaniline	ug/L	ND	50.0	02/12/18 08:32	
2-Nitrophenol	ug/L	ND	10.0	02/12/18 08:32	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	02/12/18 08:32	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	02/12/18 08:32	
3-Nitroaniline	ug/L	ND	50.0	02/12/18 08:32	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	02/12/18 08:32	
4-Bromophenylphenyl ether	ug/L	ND	10.0	02/12/18 08:32	
4-Chloro-3-methylphenol	ug/L	ND	20.0	02/12/18 08:32	
4-Chloroaniline	ug/L	ND	20.0	02/12/18 08:32	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	02/12/18 08:32	
4-Nitroaniline	ug/L	ND	20.0	02/12/18 08:32	
4-Nitrophenol	ug/L	ND	50.0	02/12/18 08:32	
Acenaphthene	ug/L	ND	10.0	02/12/18 08:32	
Acenaphthylene	ug/L	ND	10.0	02/12/18 08:32	
Aniline	ug/L	ND	10.0	02/12/18 08:32	
Anthracene	ug/L	ND	10.0	02/12/18 08:32	
Benzo(a)anthracene	ug/L	ND	10.0	02/12/18 08:32	
Benzo(a)pyrene	ug/L	ND	10.0	02/12/18 08:32	
Benzo(b)fluoranthene	ug/L	ND	10.0	02/12/18 08:32	
Benzo(g,h,i)perylene	ug/L	ND	10.0	02/12/18 08:32	
Benzo(k)fluoranthene	ug/L	ND	10.0	02/12/18 08:32	
Benzoic Acid	ug/L	ND	50.0	02/12/18 08:32	
Benzyl alcohol	ug/L	ND	20.0	02/12/18 08:32	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	02/12/18 08:32	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

METHOD BLANK: 2203773 Matrix: Water
Associated Lab Samples: 92372445001, 92372445003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	02/12/18 08:32	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	02/12/18 08:32	
Butylbenzylphthalate	ug/L	ND	10.0	02/12/18 08:32	
Chrysene	ug/L	ND	10.0	02/12/18 08:32	
Di-n-butylphthalate	ug/L	ND	10.0	02/12/18 08:32	
Di-n-octylphthalate	ug/L	ND	10.0	02/12/18 08:32	
Dibenz(a,h)anthracene	ug/L	ND	10.0	02/12/18 08:32	
Dibenzofuran	ug/L	ND	10.0	02/12/18 08:32	
Diethylphthalate	ug/L	ND	10.0	02/12/18 08:32	
Dimethylphthalate	ug/L	ND	10.0	02/12/18 08:32	
Fluoranthene	ug/L	ND	10.0	02/12/18 08:32	
Fluorene	ug/L	ND	10.0	02/12/18 08:32	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/12/18 08:32	
Hexachlorobenzene	ug/L	ND	10.0	02/12/18 08:32	
Hexachlorocyclopentadiene	ug/L	ND	10.0	02/12/18 08:32	
Hexachloroethane	ug/L	ND	10.0	02/12/18 08:32	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	02/12/18 08:32	
Isophorone	ug/L	ND	10.0	02/12/18 08:32	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	02/12/18 08:32	
N-Nitrosodimethylamine	ug/L	ND	10.0	02/12/18 08:32	
N-Nitrosodiphenylamine	ug/L	ND	10.0	02/12/18 08:32	
Naphthalene	ug/L	ND	10.0	02/12/18 08:32	
Nitrobenzene	ug/L	ND	10.0	02/12/18 08:32	
Pentachlorophenol	ug/L	ND	25.0	02/12/18 08:32	
Phenanthrene	ug/L	ND	10.0	02/12/18 08:32	
Phenol	ug/L	ND	10.0	02/12/18 08:32	
Pyrene	ug/L	ND	10.0	02/12/18 08:32	
2,4,6-Tribromophenol (S)	%	89	31-170	02/12/18 08:32	
2-Fluorobiphenyl (S)	%	94	45-139	02/12/18 08:32	
2-Fluorophenol (S)	%	67	13-118	02/12/18 08:32	
Nitrobenzene-d5 (S)	%	87	40-121	02/12/18 08:32	
Phenol-d6 (S)	%	58	18-105	02/12/18 08:32	
Terphenyl-d14 (S)	%	104	48-146	02/12/18 08:32	

LABORATORY CONTROL SAMPLE: 2203774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.0	82	31-120	
1,2-Dichlorobenzene	ug/L	50	43.8	88	38-120	
1,3-Dichlorobenzene	ug/L	50	40.7	81	30-122	
1,4-Dichlorobenzene	ug/L	50	43.2	86	37-120	
1-Methylnaphthalene	ug/L	50	44.4	89	34-113	
2,2'-Oxybis(1-chloropropane)	ug/L	50	41.1	82	18-120	
2,4,5-Trichlorophenol	ug/L	50	50.3	101	43-113	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2203774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	48.1	96	42-120	
2,4-Dichlorophenol	ug/L	50	47.6	95	30-120	
2,4-Dimethylphenol	ug/L	50	44.9	90	29-111	
2,4-Dinitrophenol	ug/L	250	238	95	19-132	
2,4-Dinitrotoluene	ug/L	50	45.4	91	58-128	
2,6-Dinitrotoluene	ug/L	50	45.3	91	54-129	
2-Chloronaphthalene	ug/L	50	45.0	90	43-117	
2-Chlorophenol	ug/L	50	42.5	85	37-120	
2-Methylnaphthalene	ug/L	50	44.5	89	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	44.0	88	31-120	
2-Nitroaniline	ug/L	100	105	105	48-121	
2-Nitrophenol	ug/L	50	42.7	85	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	43.3	87	23-120	
3,3'-Dichlorobenzidine	ug/L	100	93.3	93	10-154	
3-Nitroaniline	ug/L	100	86.6	87	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	92.1	92	44-124	
4-Bromophenylphenyl ether	ug/L	50	43.1	86	34-113	
4-Chloro-3-methylphenol	ug/L	100	105	105	31-110	
4-Chloroaniline	ug/L	100	88.0	88	20-120	
4-Chlorophenylphenyl ether	ug/L	50	49.6	99	34-116	
4-Nitroaniline	ug/L	100	91.5	92	46-128	
4-Nitrophenol	ug/L	250	157	63	11-120	
Acenaphthene	ug/L	50	46.2	92	48-114	
Acenaphthylene	ug/L	50	46.8	94	48-112	
Aniline	ug/L	50	38.3	77	26-120	
Anthracene	ug/L	50	45.5	91	57-118	
Benzo(a)anthracene	ug/L	50	47.5	95	56-121	
Benzo(a)pyrene	ug/L	50	47.5	95	55-127	
Benzo(b)fluoranthene	ug/L	50	48.3	97	53-128	
Benzo(g,h,i)perylene	ug/L	50	50.0	100	54-125	
Benzo(k)fluoranthene	ug/L	50	48.0	96	51-123	
Benzoic Acid	ug/L	250	152	61	10-120	
Benzyl alcohol	ug/L	100	59.5	60	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	52.9	106	32-120	
bis(2-Chloroethyl) ether	ug/L	50	46.6	93	33-111	
bis(2-Ethylhexyl)phthalate	ug/L	50	51.7	103	50-145	
Butylbenzylphthalate	ug/L	50	51.9	104	54-138	
Chrysene	ug/L	50	47.7	95	58-127	
Di-n-butylphthalate	ug/L	50	48.6	97	56-125	
Di-n-octylphthalate	ug/L	50	54.2	108	50-134	
Dibenz(a,h)anthracene	ug/L	50	52.2	104	53-129	
Dibenzofuran	ug/L	50	45.8	92	45-120	
Diethylphthalate	ug/L	50	46.8	94	53-120	
Dimethylphthalate	ug/L	50	46.0	92	55-116	
Fluoranthene	ug/L	50	45.9	92	57-125	
Fluorene	ug/L	50	48.8	98	53-118	
Hexachloro-1,3-butadiene	ug/L	50	39.4	79	23-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2203774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	40.7	81	49-116	
Hexachlorocyclopentadiene	ug/L	50	39.8	80	26-158	
Hexachloroethane	ug/L	50	42.3	85	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	49.7	99	55-128	
Isophorone	ug/L	50	45.3	91	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	49.0	98	32-119	
N-Nitrosodimethylamine	ug/L	50	39.7	79	13-120	
N-Nitrosodiphenylamine	ug/L	50	41.4	83	43-120	
Naphthalene	ug/L	50	44.0	88	32-120	
Nitrobenzene	ug/L	50	47.1	94	33-110	
Pentachlorophenol	ug/L	100	91.0	91	10-137	
Phenanthrene	ug/L	50	45.1	90	57-117	
Phenol	ug/L	50	35.0	70	10-120	
Pyrene	ug/L	50	48.0	96	55-122	
2,4,6-Tribromophenol (S)	%			84	31-170	
2-Fluorobiphenyl (S)	%			94	45-139	
2-Fluorophenol (S)	%			68	13-118	
Nitrobenzene-d5 (S)	%			94	40-121	
Phenol-d6 (S)	%			64	18-105	
Terphenyl-d14 (S)	%			98	48-146	

MATRIX SPIKE SAMPLE: 2203775

Parameter	Units	92372445001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.6	71	10-110	
1,2-Dichlorobenzene	ug/L	ND	50	35.6	71	10-110	
1,3-Dichlorobenzene	ug/L	ND	50	31.5	63	10-110	
1,4-Dichlorobenzene	ug/L	ND	50	34.4	67	10-110	
1-Methylnaphthalene	ug/L	ND	50	37.3	75	14-110	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	31.2	62	50-150	
2,4,5-Trichlorophenol	ug/L	ND	50	40.4	81	19-105	
2,4,6-Trichlorophenol	ug/L	ND	50	42.0	84	13-108	
2,4-Dichlorophenol	ug/L	ND	50	38.5	77	19-111	
2,4-Dimethylphenol	ug/L	ND	50	33.1	66	21-103	
2,4-Dinitrophenol	ug/L	ND	250	180	72	10-109	
2,4-Dinitrotoluene	ug/L	ND	50	40.4	81	27-104	
2,6-Dinitrotoluene	ug/L	ND	50	39.4	79	28-101	
2-Chloronaphthalene	ug/L	ND	50	38.9	78	14-102	
2-Chlorophenol	ug/L	ND	50	34.5	69	16-110	
2-Methylnaphthalene	ug/L	ND	50	37.9	76	13-110	
2-Methylphenol(o-Cresol)	ug/L	ND	50	31.9	64	19-110	
2-Nitroaniline	ug/L	ND	100	80.2	80	26-103	
2-Nitrophenol	ug/L	ND	50	39.2	78	20-110	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	30.8	62	20-110	
3,3'-Dichlorobenzidine	ug/L	ND	100	87.4	87	25-112	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2203775

Parameter	Units	92372445001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	ND	100	79.5	80	29-110	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	90.5	90	10-117	
4-Bromophenylphenyl ether	ug/L	ND	50	42.4	85	20-105	
4-Chloro-3-methylphenol	ug/L	ND	100	79.8	80	22-110	
4-Chloroaniline	ug/L	ND	100	74.7	75	20-100	
4-Chlorophenylphenyl ether	ug/L	ND	50	39.6	79	19-102	
4-Nitroaniline	ug/L	ND	100	83.0	83	29-110	
4-Nitrophenol	ug/L	ND	250	131	53	10-110	
Acenaphthene	ug/L	ND	50	39.5	79	17-100	
Acenaphthylene	ug/L	ND	50	38.5	77	21-100	
Aniline	ug/L	ND	50	32.1	64	10-110	
Anthracene	ug/L	ND	50	41.9	84	24-109	
Benzo(a)anthracene	ug/L	ND	50	44.9	90	22-117	
Benzo(a)pyrene	ug/L	ND	50	44.7	89	23-104	
Benzo(b)fluoranthene	ug/L	ND	50	44.9	90	23-103	
Benzo(g,h,i)perylene	ug/L	ND	50	49.3	99	18-111	
Benzo(k)fluoranthene	ug/L	ND	50	45.0	90	22-113	
Benzoic Acid	ug/L	ND	250	94.6	38	10-110	
Benzyl alcohol	ug/L	ND	100	55.9	56	19-101	
bis(2-Chloroethoxy)methane	ug/L	ND	50	42.7	85	22-110	
bis(2-Chloroethyl) ether	ug/L	ND	50	37.8	76	16-110	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	48.6	97	23-102	
Butylbenzylphthalate	ug/L	ND	50	48.7	97	25-110	
Chrysene	ug/L	ND	50	44.8	90	23-115	
Di-n-butylphthalate	ug/L	ND	50	46.3	93	26-110	
Di-n-octylphthalate	ug/L	ND	50	52.2	104	23-110	
Dibenz(a,h)anthracene	ug/L	ND	50	50.6	101	21-112	
Dibenzofuran	ug/L	ND	50	38.8	78	19-102	
Diethylphthalate	ug/L	ND	50	41.3	83	29-110	
Dimethylphthalate	ug/L	ND	50	39.6	79	27-110	
Fluoranthene	ug/L	ND	50	43.6	87	23-112	
Fluorene	ug/L	ND	50	39.5	79	22-104	
Hexachloro-1,3-butadiene	ug/L	ND	50	34.5	69	10-110	
Hexachlorobenzene	ug/L	ND	50	40.8	82	21-116	
Hexachlorocyclopentadiene	ug/L	ND	50	34.8	70	10-110	
Hexachloroethane	ug/L	ND	50	31.5	63	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	48.4	97	20-113	
Isophorone	ug/L	ND	50	37.0	74	50-150	
N-Nitroso-di-n-propylamine	ug/L	ND	50	37.9	76	21-105	
N-Nitrosodimethylamine	ug/L	ND	50	34.6	69	10-110	
N-Nitrosodiphenylamine	ug/L	ND	50	39.7	79	23-107	
Naphthalene	ug/L	ND	50	36.7	73	10-110	
Nitrobenzene	ug/L	ND	50	37.7	75	20-110	
Pentachlorophenol	ug/L	ND	100	76.3	76	10-118	
Phenanthrene	ug/L	ND	50	40.6	81	24-106	
Phenol	ug/L	ND	50	25.6	51	12-110	
Pyrene	ug/L	ND	50	45.2	90	24-114	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2203775

Parameter	Units	92372445001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				84	31-170	
2-Fluorobiphenyl (S)	%				79	45-139	
2-Fluorophenol (S)	%				53	13-118	
Nitrobenzene-d5 (S)	%				76	40-121	
Phenol-d6 (S)	%				47	18-105	
Terphenyl-d14 (S)	%				89	48-146	

SAMPLE DUPLICATE: 2203776

Parameter	Units	92372445003 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1-Methylnaphthalene	ug/L	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	ND		
2,4,5-Trichlorophenol	ug/L	ND	ND		
2,4,6-Trichlorophenol	ug/L	ND	ND		
2,4-Dichlorophenol	ug/L	ND	ND		
2,4-Dimethylphenol	ug/L	ND	ND		
2,4-Dinitrophenol	ug/L	ND	ND		
2,4-Dinitrotoluene	ug/L	ND	ND		
2,6-Dinitrotoluene	ug/L	ND	ND		
2-Chloronaphthalene	ug/L	ND	ND		
2-Chlorophenol	ug/L	ND	ND		
2-Methylnaphthalene	ug/L	ND	ND		
2-Methylphenol(o-Cresol)	ug/L	ND	ND		
2-Nitroaniline	ug/L	ND	ND		
2-Nitrophenol	ug/L	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND		
3,3'-Dichlorobenzidine	ug/L	ND	ND		
3-Nitroaniline	ug/L	ND	ND		
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		
4-Bromophenylphenyl ether	ug/L	ND	ND		
4-Chloro-3-methylphenol	ug/L	ND	ND		
4-Chloroaniline	ug/L	ND	ND		
4-Chlorophenylphenyl ether	ug/L	ND	ND		
4-Nitroaniline	ug/L	ND	ND		
4-Nitrophenol	ug/L	ND	ND		
Acenaphthene	ug/L	ND	ND		
Acenaphthylene	ug/L	ND	ND		
Aniline	ug/L	ND	ND		
Anthracene	ug/L	ND	ND		
Benzo(a)anthracene	ug/L	ND	ND		
Benzo(a)pyrene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

SAMPLE DUPLICATE: 2203776

Parameter	Units	92372445003 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/L	ND	ND		
Benzo(g,h,i)perylene	ug/L	ND	ND		
Benzo(k)fluoranthene	ug/L	ND	ND		
Benzoic Acid	ug/L	ND	ND		
Benzyl alcohol	ug/L	ND	ND		
bis(2-Chloroethoxy)methane	ug/L	ND	ND		
bis(2-Chloroethyl) ether	ug/L	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		
Butylbenzylphthalate	ug/L	ND	ND		
Chrysene	ug/L	ND	ND		
Di-n-butylphthalate	ug/L	ND	ND		
Di-n-octylphthalate	ug/L	ND	ND		
Dibenz(a,h)anthracene	ug/L	ND	ND		
Dibenzofuran	ug/L	ND	ND		
Diethylphthalate	ug/L	ND	ND		
Dimethylphthalate	ug/L	ND	ND		
Fluoranthene	ug/L	ND	ND		
Fluorene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
Hexachlorobenzene	ug/L	ND	ND		
Hexachlorocyclopentadiene	ug/L	ND	ND		
Hexachloroethane	ug/L	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		
Isophorone	ug/L	ND	ND		
N-Nitroso-di-n-propylamine	ug/L	ND	ND		
N-Nitrosodimethylamine	ug/L	ND	ND		
N-Nitrosodiphenylamine	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
Nitrobenzene	ug/L	ND	ND		
Pentachlorophenol	ug/L	ND	ND		
Phenanthrene	ug/L	ND	ND		
Phenol	ug/L	ND	ND		
Pyrene	ug/L	ND	ND		
2,4,6-Tribromophenol (S)	%	71	88	22	
2-Fluorobiphenyl (S)	%	57	81	35	
2-Fluorophenol (S)	%	37	55	39	
Nitrobenzene-d5 (S)	%	54	78	35	
Phenol-d6 (S)	%	35	47	28	
Terphenyl-d14 (S)	%	93	93	0	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397264 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

METHOD BLANK: 2203052 Matrix: Solid
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	328	02/13/18 19:17	
1,2-Dichlorobenzene	ug/kg	ND	328	02/13/18 19:17	
1,3-Dichlorobenzene	ug/kg	ND	328	02/13/18 19:17	
1,4-Dichlorobenzene	ug/kg	ND	328	02/13/18 19:17	
1-Methylnaphthalene	ug/kg	ND	328	02/13/18 19:17	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	328	02/13/18 19:17	
2,4,5-Trichlorophenol	ug/kg	ND	328	02/13/18 19:17	
2,4,6-Trichlorophenol	ug/kg	ND	328	02/13/18 19:17	
2,4-Dichlorophenol	ug/kg	ND	328	02/13/18 19:17	
2,4-Dimethylphenol	ug/kg	ND	328	02/13/18 19:17	
2,4-Dinitrophenol	ug/kg	ND	1640	02/13/18 19:17	
2,4-Dinitrotoluene	ug/kg	ND	328	02/13/18 19:17	
2,6-Dinitrotoluene	ug/kg	ND	328	02/13/18 19:17	
2-Chloronaphthalene	ug/kg	ND	328	02/13/18 19:17	
2-Chlorophenol	ug/kg	ND	328	02/13/18 19:17	
2-Methylnaphthalene	ug/kg	ND	328	02/13/18 19:17	
2-Methylphenol(o-Cresol)	ug/kg	ND	328	02/13/18 19:17	
2-Nitroaniline	ug/kg	ND	1640	02/13/18 19:17	
2-Nitrophenol	ug/kg	ND	328	02/13/18 19:17	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	328	02/13/18 19:17	
3,3'-Dichlorobenzidine	ug/kg	ND	1640	02/13/18 19:17	
3-Nitroaniline	ug/kg	ND	1640	02/13/18 19:17	
4,6-Dinitro-2-methylphenol	ug/kg	ND	656	02/13/18 19:17	
4-Bromophenylphenyl ether	ug/kg	ND	328	02/13/18 19:17	
4-Chloro-3-methylphenol	ug/kg	ND	656	02/13/18 19:17	
4-Chloroaniline	ug/kg	ND	1640	02/13/18 19:17	
4-Chlorophenylphenyl ether	ug/kg	ND	328	02/13/18 19:17	
4-Nitroaniline	ug/kg	ND	656	02/13/18 19:17	
4-Nitrophenol	ug/kg	ND	1640	02/13/18 19:17	
Acenaphthene	ug/kg	ND	328	02/13/18 19:17	
Acenaphthylene	ug/kg	ND	328	02/13/18 19:17	
Aniline	ug/kg	ND	328	02/13/18 19:17	
Anthracene	ug/kg	ND	328	02/13/18 19:17	
Benzo(a)anthracene	ug/kg	ND	328	02/13/18 19:17	
Benzo(a)pyrene	ug/kg	ND	328	02/13/18 19:17	
Benzo(b)fluoranthene	ug/kg	ND	328	02/13/18 19:17	
Benzo(g,h,i)perylene	ug/kg	ND	328	02/13/18 19:17	
Benzo(k)fluoranthene	ug/kg	ND	328	02/13/18 19:17	
Benzoic Acid	ug/kg	ND	1640	02/13/18 19:17	
Benzyl alcohol	ug/kg	ND	656	02/13/18 19:17	
bis(2-Chloroethoxy)methane	ug/kg	ND	328	02/13/18 19:17	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

METHOD BLANK: 2203052 Matrix: Solid
Associated Lab Samples: 92372445004, 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	ND	328	02/13/18 19:17	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	328	02/13/18 19:17	
Butylbenzylphthalate	ug/kg	ND	328	02/13/18 19:17	
Chrysene	ug/kg	ND	328	02/13/18 19:17	
Di-n-butylphthalate	ug/kg	ND	328	02/13/18 19:17	
Di-n-octylphthalate	ug/kg	ND	328	02/13/18 19:17	
Dibenz(a,h)anthracene	ug/kg	ND	328	02/13/18 19:17	
Dibenzofuran	ug/kg	ND	328	02/13/18 19:17	
Diethylphthalate	ug/kg	ND	328	02/13/18 19:17	
Dimethylphthalate	ug/kg	ND	328	02/13/18 19:17	
Fluoranthene	ug/kg	ND	328	02/13/18 19:17	
Fluorene	ug/kg	ND	328	02/13/18 19:17	
Hexachloro-1,3-butadiene	ug/kg	ND	328	02/13/18 19:17	
Hexachlorobenzene	ug/kg	ND	328	02/13/18 19:17	
Hexachlorocyclopentadiene	ug/kg	ND	328	02/13/18 19:17	
Hexachloroethane	ug/kg	ND	328	02/13/18 19:17	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	328	02/13/18 19:17	
Isophorone	ug/kg	ND	328	02/13/18 19:17	
N-Nitroso-di-n-propylamine	ug/kg	ND	328	02/13/18 19:17	
N-Nitrosodimethylamine	ug/kg	ND	328	02/13/18 19:17	
N-Nitrosodiphenylamine	ug/kg	ND	328	02/13/18 19:17	
Naphthalene	ug/kg	ND	328	02/13/18 19:17	
Nitrobenzene	ug/kg	ND	328	02/13/18 19:17	
Pentachlorophenol	ug/kg	ND	1640	02/13/18 19:17	
Phenanthrene	ug/kg	ND	328	02/13/18 19:17	
Phenol	ug/kg	ND	328	02/13/18 19:17	
Pyrene	ug/kg	ND	328	02/13/18 19:17	
2,4,6-Tribromophenol (S)	%	77	27-110	02/13/18 19:17	
2-Fluorobiphenyl (S)	%	74	30-110	02/13/18 19:17	
2-Fluorophenol (S)	%	75	13-110	02/13/18 19:17	
Nitrobenzene-d5 (S)	%	80	23-110	02/13/18 19:17	
Phenol-d6 (S)	%	79	22-110	02/13/18 19:17	
Terphenyl-d14 (S)	%	87	28-110	02/13/18 19:17	

LABORATORY CONTROL SAMPLE: 2203053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1650	1300	79	36-120	
1,2-Dichlorobenzene	ug/kg	1650	1360	82	41-120	
1,3-Dichlorobenzene	ug/kg	1650	1340	81	66-120	
1,4-Dichlorobenzene	ug/kg	1650	1370	83	42-120	
1-Methylnaphthalene	ug/kg	1650	1390	84	40-120	
2,2'-Oxybis(1-chloropropane)	ug/kg	1650	1490	90	17-120	
2,4,5-Trichlorophenol	ug/kg	1650	1350	82	37-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2203053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/kg	1650	1430	87	40-120	
2,4-Dichlorophenol	ug/kg	1650	1340	81	33-120	
2,4-Dimethylphenol	ug/kg	1650	1530	93	36-120	
2,4-Dinitrophenol	ug/kg	8250	7610	92	22-121	
2,4-Dinitrotoluene	ug/kg	1650	1450	88	60-120	
2,6-Dinitrotoluene	ug/kg	1650	1410	86	54-120	
2-Chloronaphthalene	ug/kg	1650	1310	79	41-120	
2-Chlorophenol	ug/kg	1650	1520	92	39-120	
2-Methylnaphthalene	ug/kg	1650	1400	85	26-120	
2-Methylphenol(o-Cresol)	ug/kg	1650	1690	102	41-120	
2-Nitroaniline	ug/kg	3300	3080	93	45-120	
2-Nitrophenol	ug/kg	1650	1400	85	35-120	
3&4-Methylphenol(m&p Cresol)	ug/kg	1650	1520	92	35-120	
3,3'-Dichlorobenzidine	ug/kg	3300	2620	79	16-125	
3-Nitroaniline	ug/kg	3300	2670	81	45-120	
4,6-Dinitro-2-methylphenol	ug/kg	3300	3440	104	46-120	
4-Bromophenylphenyl ether	ug/kg	1650	1500	91	36-120	
4-Chloro-3-methylphenol	ug/kg	3300	2910	88	37-120	
4-Chloroaniline	ug/kg	3300	2650	80	35-120	
4-Chlorophenylphenyl ether	ug/kg	1650	1410	85	30-120	
4-Nitroaniline	ug/kg	3300	2740	83	48-120	
4-Nitrophenol	ug/kg	8250	7050	85	43-120	
Acenaphthene	ug/kg	1650	1400	85	46-120	
Acenaphthylene	ug/kg	1650	1350	82	46-120	
Aniline	ug/kg	1650	1390	84	33-120	
Anthracene	ug/kg	1650	1460	88	63-120	
Benzo(a)anthracene	ug/kg	1650	1410	85	61-120	
Benzo(a)pyrene	ug/kg	1650	1480	90	59-120	
Benzo(b)fluoranthene	ug/kg	1650	1540	93	55-120	
Benzo(g,h,i)perylene	ug/kg	1650	1400	85	57-120	
Benzo(k)fluoranthene	ug/kg	1650	1520	92	56-120	
Benzoic Acid	ug/kg	8250	5550	67	13-120	
Benzyl alcohol	ug/kg	3300	3100	94	34-120	
bis(2-Chloroethoxy)methane	ug/kg	1650	1500	91	21-120	
bis(2-Chloroethyl) ether	ug/kg	1650	1610	98	25-120	
bis(2-Ethylhexyl)phthalate	ug/kg	1650	1770	107	56-123	
Butylbenzylphthalate	ug/kg	1650	1690	102	57-120	
Chrysene	ug/kg	1650	1390	84	64-120	
Di-n-butylphthalate	ug/kg	1650	1750	106	58-120	
Di-n-octylphthalate	ug/kg	1650	1930	117	47-121	
Dibenz(a,h)anthracene	ug/kg	1650	1530	93	56-120	
Dibenzofuran	ug/kg	1650	1360	82	43-120	
Diethylphthalate	ug/kg	1650	1620	98	55-120	
Dimethylphthalate	ug/kg	1650	1470	89	54-120	
Fluoranthene	ug/kg	1650	1520	92	61-120	
Fluorene	ug/kg	1650	1470	89	51-120	
Hexachloro-1,3-butadiene	ug/kg	1650	1320	80	22-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

LABORATORY CONTROL SAMPLE: 2203053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/kg	1650	1460	89	53-120	
Hexachlorocyclopentadiene	ug/kg	1650	1090	66	18-150	
Hexachloroethane	ug/kg	1650	1570	95	39-120	
Indeno(1,2,3-cd)pyrene	ug/kg	1650	1480	90	58-120	
Isophorone	ug/kg	1650	1420	86	38-120	
N-Nitroso-di-n-propylamine	ug/kg	1650	1710	103	30-120	
N-Nitrosodimethylamine	ug/kg	1650	1370	83	32-120	
N-Nitrosodiphenylamine	ug/kg	1650	1440	88	50-120	
Naphthalene	ug/kg	1650	1350	82	38-120	
Nitrobenzene	ug/kg	1650	1380	83	37-120	
Pentachlorophenol	ug/kg	3300	2850	86	10-120	
Phenanthrene	ug/kg	1650	1450	88	62-120	
Phenol	ug/kg	1650	1660	100	37-120	
Pyrene	ug/kg	1650	1390	84	63-120	
2,4,6-Tribromophenol (S)	%			90	27-110	
2-Fluorobiphenyl (S)	%			79	30-110	
2-Fluorophenol (S)	%			86	13-110	
Nitrobenzene-d5 (S)	%			84	23-110	
Phenol-d6 (S)	%			91	22-110	
Terphenyl-d14 (S)	%			90	28-110	

MATRIX SPIKE SAMPLE: 2203054

Parameter	Units	92372445004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	1840	1320	72	18-119	
1,2-Dichlorobenzene	ug/kg	ND	1840	1390	76	50-110	
1,3-Dichlorobenzene	ug/kg	ND	1840	1360	74	27-110	
1,4-Dichlorobenzene	ug/kg	ND	1840	1350	74	28-110	
1-Methylnaphthalene	ug/kg	ND	1840	1430	78	24-116	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	1840	1480	81	50-150	
2,4,5-Trichlorophenol	ug/kg	ND	1840	1460	79	28-110	
2,4,6-Trichlorophenol	ug/kg	ND	1840	1490	81	17-117	
2,4-Dichlorophenol	ug/kg	ND	1840	1420	77	21-128	
2,4-Dimethylphenol	ug/kg	ND	1840	1490	81	10-120	
2,4-Dinitrophenol	ug/kg	ND	9180	6620	72	10-107	
2,4-Dinitrotoluene	ug/kg	ND	1840	1530	84	36-109	
2,6-Dinitrotoluene	ug/kg	ND	1840	1470	80	32-110	
2-Chloronaphthalene	ug/kg	ND	1840	1370	75	30-107	
2-Chlorophenol	ug/kg	ND	1840	1540	84	14-106	
2-Methylnaphthalene	ug/kg	ND	1840	1450	79	10-135	
2-Methylphenol(o-Cresol)	ug/kg	ND	1840	1510	82	10-124	
2-Nitroaniline	ug/kg	ND	3670	3200	87	26-116	
2-Nitrophenol	ug/kg	ND	1840	1470	80	28-103	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1840	1470	80	10-109	
3,3'-Dichlorobenzidine	ug/kg	ND	3670	2750	75	10-150	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2203054

Parameter	Units	92372445004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/kg	ND	3670	2810	76	22-110	
4,6-Dinitro-2-methylphenol	ug/kg	ND	3670	3680	100	13-121	
4-Bromophenylphenyl ether	ug/kg	ND	1840	1560	85	31-109	
4-Chloro-3-methylphenol	ug/kg	ND	3670	3050	83	13-128	
4-Chloroaniline	ug/kg	ND	3670	2680	73	18-102	
4-Chlorophenylphenyl ether	ug/kg	ND	1840	1450	79	29-112	
4-Nitroaniline	ug/kg	ND	3670	2980	81	16-111	
4-Nitrophenol	ug/kg	ND	9180	7140	78	14-135	
Acenaphthene	ug/kg	ND	1840	1450	79	26-114	
Acenaphthylene	ug/kg	ND	1840	1420	77	32-108	
Aniline	ug/kg	ND	1840	1220	66	10-107	
Anthracene	ug/kg	ND	1840	1540	84	32-111	
Benzo(a)anthracene	ug/kg	ND	1840	1410	76	25-117	
Benzo(a)pyrene	ug/kg	ND	1840	1430	78	25-106	
Benzo(b)fluoranthene	ug/kg	ND	1840	1460	80	24-110	
Benzo(g,h,i)perylene	ug/kg	ND	1840	1400	76	19-112	
Benzo(k)fluoranthene	ug/kg	ND	1840	1420	77	24-114	
Benzoic Acid	ug/kg	ND	9180	1290J	14	10-110	
Benzyl alcohol	ug/kg	ND	3670	3110	84	24-106	
bis(2-Chloroethoxy)methane	ug/kg	ND	1840	1530	83	13-119	
bis(2-Chloroethyl) ether	ug/kg	ND	1840	1630	88	10-134	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1840	1770	96	10-125	
Butylbenzylphthalate	ug/kg	ND	1840	1640	89	18-110	
Chrysene	ug/kg	ND	1840	1370	75	30-110	
Di-n-butylphthalate	ug/kg	ND	1840	1740	95	19-112	
Di-n-octylphthalate	ug/kg	ND	1840	1930	105	17-105	
Dibenz(a,h)anthracene	ug/kg	ND	1840	1500	82	23-111	
Dibenzofuran	ug/kg	ND	1840	1420	77	35-103	
Diethylphthalate	ug/kg	ND	1840	1670	91	27-113	
Dimethylphthalate	ug/kg	ND	1840	1530	83	26-111	
Fluoranthene	ug/kg	ND	1840	1570	86	33-109	
Fluorene	ug/kg	ND	1840	1510	82	32-113	
Hexachloro-1,3-butadiene	ug/kg	ND	1840	1340	73	16-116	
Hexachlorobenzene	ug/kg	ND	1840	1460	80	27-120	
Hexachlorocyclopentadiene	ug/kg	ND	1840	1220	67	10-108	
Hexachloroethane	ug/kg	ND	1840	1590	86	10-117	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1840	1470	80	10-122	
Isophorone	ug/kg	ND	1840	1480	80	28-114	
N-Nitroso-di-n-propylamine	ug/kg	ND	1840	1690	92	27-113	
N-Nitrosodimethylamine	ug/kg	ND	1840	1340	73	10-109	
N-Nitrosodiphenylamine	ug/kg	ND	1840	1540	84	10-128	
Naphthalene	ug/kg	ND	1840	1410	77	25-110	
Nitrobenzene	ug/kg	ND	1840	1430	78	18-114	
Pentachlorophenol	ug/kg	ND	3670	3060	83	10-122	
Phenanthrene	ug/kg	ND	1840	1510	82	30-114	
Phenol	ug/kg	ND	1840	1560	85	11-102	
Pyrene	ug/kg	ND	1840	1350	74	25-116	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

MATRIX SPIKE SAMPLE: 2203054

Parameter	Units	92372445004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				86	27-110	
2-Fluorobiphenyl (S)	%				71	30-110	
2-Fluorophenol (S)	%				74	13-110	
Nitrobenzene-d5 (S)	%				78	23-110	
Phenol-d6 (S)	%				77	22-110	
Terphenyl-d14 (S)	%				68	28-110	

SAMPLE DUPLICATE: 2203055

Parameter	Units	92372445005 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1-Methylnaphthalene	ug/kg	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	ND		
2,4,5-Trichlorophenol	ug/kg	ND	ND		
2,4,6-Trichlorophenol	ug/kg	ND	ND		
2,4-Dichlorophenol	ug/kg	ND	ND		
2,4-Dimethylphenol	ug/kg	ND	ND		
2,4-Dinitrophenol	ug/kg	ND	ND		
2,4-Dinitrotoluene	ug/kg	ND	ND		
2,6-Dinitrotoluene	ug/kg	ND	ND		
2-Chloronaphthalene	ug/kg	ND	ND		
2-Chlorophenol	ug/kg	ND	ND		
2-Methylnaphthalene	ug/kg	ND	ND		
2-Methylphenol(o-Cresol)	ug/kg	ND	ND		
2-Nitroaniline	ug/kg	ND	ND		
2-Nitrophenol	ug/kg	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	ND		
3,3'-Dichlorobenzidine	ug/kg	ND	ND		
3-Nitroaniline	ug/kg	ND	ND		
4,6-Dinitro-2-methylphenol	ug/kg	ND	ND		
4-Bromophenylphenyl ether	ug/kg	ND	ND		
4-Chloro-3-methylphenol	ug/kg	ND	ND		
4-Chloroaniline	ug/kg	ND	ND		
4-Chlorophenylphenyl ether	ug/kg	ND	ND		
4-Nitroaniline	ug/kg	ND	ND		
4-Nitrophenol	ug/kg	ND	ND		
Acenaphthene	ug/kg	ND	ND		
Acenaphthylene	ug/kg	ND	ND		
Aniline	ug/kg	ND	ND		
Anthracene	ug/kg	ND	ND		
Benzo(a)anthracene	ug/kg	ND	ND		
Benzo(a)pyrene	ug/kg	ND	ND		

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

SAMPLE DUPLICATE: 2203055

Parameter	Units	92372445005 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/kg	ND	ND		
Benzo(g,h,i)perylene	ug/kg	ND	ND		
Benzo(k)fluoranthene	ug/kg	ND	ND		
Benzoic Acid	ug/kg	ND	ND		
Benzyl alcohol	ug/kg	ND	ND		
bis(2-Chloroethoxy)methane	ug/kg	ND	ND		
bis(2-Chloroethyl) ether	ug/kg	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/kg	ND	ND		
Butylbenzylphthalate	ug/kg	ND	ND		
Chrysene	ug/kg	ND	ND		
Di-n-butylphthalate	ug/kg	ND	ND		
Di-n-octylphthalate	ug/kg	ND	ND		
Dibenz(a,h)anthracene	ug/kg	ND	ND		
Dibenzofuran	ug/kg	ND	ND		
Diethylphthalate	ug/kg	ND	ND		
Dimethylphthalate	ug/kg	ND	ND		
Fluoranthene	ug/kg	ND	ND		
Fluorene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Hexachlorobenzene	ug/kg	ND	ND		
Hexachlorocyclopentadiene	ug/kg	ND	ND		
Hexachloroethane	ug/kg	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND		
Isophorone	ug/kg	ND	ND		
N-Nitroso-di-n-propylamine	ug/kg	ND	ND		
N-Nitrosodimethylamine	ug/kg	ND	ND		
N-Nitrosodiphenylamine	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
Nitrobenzene	ug/kg	ND	ND		
Pentachlorophenol	ug/kg	ND	ND		
Phenanthrene	ug/kg	ND	ND		
Phenol	ug/kg	ND	ND		
Pyrene	ug/kg	ND	ND		
2,4,6-Tribromophenol (S)	%	77	74	4	
2-Fluorobiphenyl (S)	%	70	74	5	
2-Fluorophenol (S)	%	68	70	3	
Nitrobenzene-d5 (S)	%	80	76	5	
Phenol-d6 (S)	%	70	63	11	
Terphenyl-d14 (S)	%	68	65	6	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397243
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92372445004

SAMPLE DUPLICATE: 2202961

Parameter	Units	92372503001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.5	14.6	0	

SAMPLE DUPLICATE: 2202962

Parameter	Units	92372326003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	85.8	85.9	0	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372445

QC Batch: 397324 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92372445005, 92372445006, 92372445007, 92372445008, 92372445010

SAMPLE DUPLICATE: 2203505

Parameter	Units	92372536001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.0	16.0	6	

SAMPLE DUPLICATE: 2203509

Parameter	Units	92372585013 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.3	17.4	5	

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QUALIFIERS

Project: DREXEL
Pace Project No.: 92372445

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DREXEL
Pace Project No.: 92372445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92372445004	**GP-1**	EPA 3050	397919	EPA 6010	398083
92372445005	**GP-2**	EPA 3050	397919	EPA 6010	398083
92372445006	**GP-3**	EPA 3050	397919	EPA 6010	398083
92372445007	**GP-4**	EPA 3050	397919	EPA 6010	398083
92372445008	**GP-5**	EPA 3050	397919	EPA 6010	398083
92372445010	**GP-D2**	EPA 3050	397919	EPA 6010	398083
92372445001	**R-1**	EPA 3010A	397154	EPA 6010	397303
92372445003	**R-2**	EPA 3010A	397154	EPA 6010	397303
92372445001	**R-1**	EPA 7470	397894	EPA 7470	398034
92372445003	**R-2**	EPA 7470	397894	EPA 7470	398034
92372445004	**GP-1**	EPA 7471	397992	EPA 7471	398026
92372445005	**GP-2**	EPA 7471	397992	EPA 7471	398026
92372445006	**GP-3**	EPA 7471	397992	EPA 7471	398026
92372445007	**GP-4**	EPA 7471	397992	EPA 7471	398026
92372445008	**GP-5**	EPA 7471	397992	EPA 7471	398026
92372445010	**GP-D2**	EPA 7471	397992	EPA 7471	398026
92372445001	**R-1**	EPA 3510	397389	EPA 8270	397591
92372445003	**R-2**	EPA 3510	397389	EPA 8270	397591
92372445004	**GP-1**	EPA 3546	397264	EPA 8270	397804
92372445005	**GP-2**	EPA 3546	397264	EPA 8270	397804
92372445006	**GP-3**	EPA 3546	397264	EPA 8270	397804
92372445007	**GP-4**	EPA 3546	397264	EPA 8270	397804
92372445008	**GP-5**	EPA 3546	397264	EPA 8270	397804
92372445010	**GP-D2**	EPA 3546	397264	EPA 8270	397804
92372445001	**R-1**	EPA 8260	397536		
92372445002	**T-1**	EPA 8260	397536		
92372445003	**R-2**	EPA 8260	397536		
92372445009	**T-2**	EPA 8260	397536		
92372445004	**GP-1**	EPA 8260	397571		
92372445005	**GP-2**	EPA 8260	397571		
92372445006	**GP-3**	EPA 8260	397571		
92372445007	**GP-4**	EPA 8260	397571		
92372445008	**GP-5**	EPA 8260	397571		
92372445010	**GP-D2**	EPA 8260	397571		
92372445004	**GP-1**	ASTM D2974-87	397243		
92372445005	**GP-2**	ASTM D2974-87	397324		
92372445006	**GP-3**	ASTM D2974-87	397324		
92372445007	**GP-4**	ASTM D2974-87	397324		
92372445008	**GP-5**	ASTM D2974-87	397324		
92372445010	**GP-D2**	ASTM D2974-87	397324		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: January 24, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.05	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: ECS

Project: **WO# : 92372445**

92372445

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 4/4/18

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: T027

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 2.2/4.6 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.2/4.6

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

		Comments/Discrepancy:
Chain of Custody Present?	☑ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☑ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☑ No ☐ N/A	4.
Sufficient Volume?	☑ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☑ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☑ Yes ☐ No ☐ N/A	
Containers Intact?	☑ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☑ N/A	8.
Sample Labels Match COC?	☑ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT/SL		
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☑ No ☐ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☐ N/A	11. @ sols
Trip Blank Custody Seals Present?	☑ Yes ☐ No ☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: TE Date: 4/9

Project Manager SRF Review: TE Date: 4/9

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Projec WO# : 92372445

PM: PTE Due Date: 02/14/18

CLIENT: 93-ECS ASH

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1	\				\	\	\	\		2	\		\	\	\	6									\	\			
2	\				\	\	\	\			\		\	\	\	2									\	\			
3	\				\	\	\	\		2	\		\	\	\	6									\	\			
4	\				\	\	\	\	1		\		\	\	\						1				\	\			
5	\				\	\	\	\	1		\		\	\	\						1				\	\			
6	\				\	\	\	\	1		\		\	\	\						1				\	\			
7	\				\	\	\	\	1		\		\	\	\						1				\	\			
8	\				\	\	\	\	1		\		\	\	\						1				\	\			
9	\				\	\	\	\	1		\		\	\	\						1				\	\			
10	\				\	\	\	\	1		\		\	\	\						1				\	\			
11	\				\	\	\	\	1 ~~FA~~ 2/8/18		\		\	\	\										\	\			
12	\				\	\	\	\			\		\	\	\										\	\			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1984822

Section A Required Client Information:

Company: ECS
Address: 1900 HENDERSONVILLE RD, STE 10 ASHEVILLE, NC
Email To: JSEVERS@ECSLIMITED.COM
Phone: 828-665-2307 Fax:
Requested Due Date/TAT: 5

Section B Required Project Information:

Report To: JIM BOWERS
Copy To:
Purchase Order No.:
Project Name: DREXEL
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 VOCs + 1,4-Dioxane	8270 SVOCs	6010 Total RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	R-1	WT	G			2/5	1500		9	X		X						X	X	X		001
2	T-1	WT	G			2/5	1600		2				X					X	X	X		002
3	R-2	WT	G			2/6	1300		9	X		X						X	X	X		003
4	GP-1	SL	G			2/6	1420		6	X						X		X	X	X		004
5	GP-2	SL	G			2/6	1450		6	X						X		X	X	X		005
6	GP-3	SL	G			2/6	1510		6	X						X		X	X	X		006
7	GP-4	SL	G			2/6	1540		6	X						X		X	X	X		007
8	GP-5	SL	G			2/6	1610		6	X						X		X	X	X		008
9	T-2	WT	G			2/6	1830		2				X					X	X	X		009
10	GP-DL	SL	G			2/6	1450		6	X						X		X	X	X		010
11																							
12																							

92372445

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		2/7	0730		2/7/18	0200				
		2-7-18	1400	R. TAMPA	2/7/18	1600	2.2	Y	N	Y
							4.6			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JAMES C SEVERS
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/07/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

February 23, 2018

Jim Bevers
ECS Carolinas
1900 Hendersonville Road
Suite 10
Asheville, NC 28803

RE: Project: DREXEL
Pace Project No.: 92372721

Dear Jim Bevers:
Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

CERTIFICATIONS

Project: DREXEL
Pace Project No.: 92372721

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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(828)254-7176

SAMPLE ANALYTE COUNT

Project: DREXEL
Pace Project No.: 92372721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92372721001	**GP-6**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721002	**GP-7**	EPA 6010	SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721003	**GP-8**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721004	**GP-9**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721005	**GP-10**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721006	**GP-7D**	EPA 6010	SER, SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721007	**GP-11**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721008	**GP-12**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: DREXEL
Pace Project No.: 92372721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721009	**GP-13**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	BPJ	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721010	**GP-14**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721011	**GP-15**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721012	**GP-16**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721013	**GP-17**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721014	**GP-18**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721015	**GP-19**	EPA 6010	SER, SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C

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Asheville, NC 28804
(828)254-7176

SAMPLE ANALYTE COUNT

Project: DREXEL
Pace Project No.: 92372721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	KDF	1	PASI-C
92372721016	**GP-20**	EPA 6010	SER, SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		EPA 7196	NAL	1	PASI-A
92372721017	**GP-21**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		EPA 7196	NAL	1	PASI-A
92372721018	**GP-17D**	EPA 6010	SER, SH1	7	PASI-A
		EPA 7471	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92372721019	**T-3**	EPA 8260	GAW	64	PASI-C
92372721020	**R-3**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	64	PASI-C
92372721021	**T-4**	EPA 8260	GAW	64	PASI-C
92372721022	**R-4**	EPA 6010	SER	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	64	PASI-C
92372721023	**GP-20D**	EPA 6010	SER	7	PASI-A
		EPA 7471	SER	1	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
		EPA 7196	NAL	1	PASI-A

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Asheville, NC 28804
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SUMMARY OF DETECTION

Project: DREXEL
Pace Project No.: 92372721

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92372721001	**GP-6**					
EPA 6010	Arsenic	2.9	mg/kg	1.2	02/18/18 07:28	
EPA 6010	Barium	137	mg/kg	1.2	02/20/18 06:33	
EPA 6010	Chromium	21.7	mg/kg	0.62	02/18/18 07:28	
EPA 6010	Lead	18.8	mg/kg	0.62	02/18/18 07:28	
EPA 6010	Selenium	2.0	mg/kg	1.2	02/18/18 07:28	
EPA 8270	1-Methylnaphthalene	3660	ug/kg	2130	02/19/18 15:31	M1
EPA 8270	2-Methylnaphthalene	5640	ug/kg	2130	02/19/18 15:31	M1
EPA 8270	Naphthalene	1880	ug/kg	425	02/19/18 14:01	M1
EPA 8270	Phenanthrene	1940	ug/kg	425	02/19/18 14:01	
EPA 8270	Pyrene	447	ug/kg	425	02/19/18 14:01	
EPA 8260	n-Butylbenzene	541	ug/kg	134	02/11/18 19:10	
EPA 8260	sec-Butylbenzene	455	ug/kg	134	02/11/18 19:10	
EPA 8260	Isopropylbenzene (Cumene)	142	ug/kg	134	02/11/18 19:10	
EPA 8260	p-Isopropyltoluene	1020	ug/kg	134	02/11/18 19:10	
EPA 8260	Naphthalene	2450	ug/kg	134	02/11/18 19:10	
EPA 8260	n-Propylbenzene	235	ug/kg	134	02/11/18 19:10	
EPA 8260	1,2,4-Trimethylbenzene	2630	ug/kg	134	02/11/18 19:10	
EPA 8260	1,3,5-Trimethylbenzene	700	ug/kg	134	02/11/18 19:10	
EPA 8260	Xylene (Total)	1070	ug/kg	267	02/11/18 19:10	
EPA 8260	m&p-Xylene	662	ug/kg	267	02/11/18 19:10	
EPA 8260	o-Xylene	405	ug/kg	134	02/11/18 19:10	
ASTM D2974-87	Percent Moisture	20.5	%	0.10	02/13/18 11:28	
92372721002	**GP-7**					
EPA 6010	Arsenic	6.6	mg/kg	6.5	02/22/18 02:49	
EPA 6010	Barium	81.1	mg/kg	3.2	02/22/18 02:49	
EPA 6010	Chromium	14.5	mg/kg	3.2	02/22/18 02:49	
EPA 6010	Lead	12.8	mg/kg	3.2	02/22/18 02:49	
ASTM D2974-87	Percent Moisture	25.8	%	0.10	02/13/18 11:28	
92372721003	**GP-8**					
EPA 6010	Arsenic	55.6	mg/kg	0.84	02/18/18 07:48	
EPA 6010	Barium	63.9	mg/kg	0.42	02/18/18 07:48	
EPA 6010	Cadmium	0.50	mg/kg	0.084	02/18/18 07:48	
EPA 6010	Chromium	10.1	mg/kg	0.42	02/18/18 07:48	
EPA 6010	Lead	10.7	mg/kg	0.42	02/18/18 07:48	
EPA 6010	Selenium	1.5	mg/kg	0.84	02/18/18 07:48	
EPA 7471	Mercury	0.027	mg/kg	0.0063	02/16/18 18:26	
EPA 8270	bis(2-Ethylhexyl)phthalate	501	ug/kg	395	02/16/18 10:04	
EPA 8260	Acetone	122	ug/kg	106	02/11/18 19:50	
ASTM D2974-87	Percent Moisture	16.5	%	0.10	02/13/18 11:28	
92372721004	**GP-9**					
EPA 6010	Barium	86.5	mg/kg	0.59	02/18/18 07:51	
EPA 6010	Chromium	12.6	mg/kg	0.59	02/18/18 07:51	
EPA 6010	Lead	10.8	mg/kg	0.59	02/18/18 07:51	
EPA 7471	Mercury	0.032	mg/kg	0.0054	02/16/18 18:28	
ASTM D2974-87	Percent Moisture	27.0	%	0.10	02/13/18 11:28	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: DREXEL
Pace Project No.: 92372721

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92372721005	**GP-10**					
EPA 6010	Barium	172	mg/kg	1.1	02/20/18 06:45	
EPA 6010	Chromium	22.0	mg/kg	0.55	02/18/18 07:54	
EPA 6010	Lead	6.7	mg/kg	0.55	02/18/18 07:54	
EPA 6010	Selenium	1.9	mg/kg	1.1	02/18/18 07:54	
EPA 7471	Mercury	0.0084	mg/kg	0.0064	02/16/18 18:31	
ASTM D2974-87	Percent Moisture	24.3	%	0.10	02/13/18 11:28	
92372721006	**GP-7D**					
EPA 6010	Arsenic	18.1	mg/kg	5.9	02/22/18 03:05	
EPA 6010	Barium	116	mg/kg	2.9	02/22/18 03:05	
EPA 6010	Chromium	42.8	mg/kg	2.9	02/22/18 03:05	
EPA 6010	Lead	8.5	mg/kg	2.9	02/23/18 03:21	
ASTM D2974-87	Percent Moisture	25.5	%	0.10	02/13/18 11:28	
92372721007	**GP-11**					
EPA 6010	Arsenic	3.5	mg/kg	0.90	02/18/18 08:00	
EPA 6010	Barium	107	mg/kg	0.45	02/18/18 08:00	
EPA 6010	Cadmium	0.22	mg/kg	0.090	02/18/18 08:00	
EPA 6010	Chromium	15.2	mg/kg	0.45	02/18/18 08:00	
EPA 6010	Lead	69.5	mg/kg	0.45	02/18/18 08:00	
EPA 6010	Selenium	1.3	mg/kg	0.90	02/18/18 08:00	
EPA 7471	Mercury	0.021	mg/kg	0.0062	02/16/18 18:40	
EPA 8270	bis(2-Ethylhexyl)phthalate	2060	ug/kg	396	02/15/18 19:26	
EPA 8270	Fluoranthene	422	ug/kg	396	02/15/18 19:26	
EPA 8260	Toluene	300	ug/kg	137	02/12/18 11:29	
EPA 8260	1,2,4-Trimethylbenzene	172	ug/kg	137	02/12/18 11:29	
EPA 8260	Xylene (Total)	1240	ug/kg	274	02/12/18 11:29	
EPA 8260	m&p-Xylene	1240	ug/kg	274	02/12/18 11:29	
ASTM D2974-87	Percent Moisture	17.4	%	0.10	02/13/18 11:29	
92372721008	**GP-12**					
EPA 6010	Barium	70.7	mg/kg	0.50	02/18/18 08:03	
EPA 6010	Chromium	17.9	mg/kg	0.50	02/18/18 08:03	
EPA 6010	Lead	16.2	mg/kg	0.50	02/18/18 08:03	
EPA 6010	Selenium	2.6	mg/kg	1.0	02/18/18 08:03	
EPA 7471	Mercury	0.039	mg/kg	0.0042	02/16/18 18:42	
ASTM D2974-87	Percent Moisture	21.2	%	0.10	02/13/18 11:29	
92372721009	**GP-13**					
EPA 6010	Barium	48.3	mg/kg	0.52	02/18/18 08:06	
EPA 6010	Chromium	18.1	mg/kg	0.52	02/18/18 08:06	
EPA 6010	Lead	12.2	mg/kg	0.52	02/18/18 08:06	
EPA 6010	Selenium	2.6	mg/kg	1.0	02/18/18 08:06	
EPA 7471	Mercury	0.034	mg/kg	0.0046	02/16/18 18:45	
ASTM D2974-87	Percent Moisture	23.1	%	0.10	02/13/18 11:29	
92372721010	**GP-14**					
EPA 6010	Arsenic	3.1	mg/kg	1.0	02/18/18 08:10	
EPA 6010	Barium	36.8	mg/kg	0.52	02/18/18 08:10	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: DREXEL
Pace Project No.: 92372721

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92372721010	**GP-14**					
EPA 6010	Chromium	22.1	mg/kg	0.52	02/18/18 08:10	
EPA 6010	Lead	11.2	mg/kg	0.52	02/18/18 08:10	
EPA 6010	Selenium	4.6	mg/kg	1.0	02/18/18 08:10	
EPA 7471	Mercury	0.047	mg/kg	0.0038	02/16/18 18:47	
ASTM D2974-87	Percent Moisture	26.2	%	0.10	02/13/18 11:29	
92372721011	**GP-15**					
EPA 6010	Barium	145	mg/kg	0.59	02/18/18 08:13	
EPA 6010	Chromium	18.2	mg/kg	0.59	02/18/18 08:13	
EPA 6010	Lead	9.5	mg/kg	0.59	02/18/18 08:13	
EPA 6010	Selenium	2.8	mg/kg	1.2	02/18/18 08:13	
EPA 7471	Mercury	0.020	mg/kg	0.0067	02/16/18 18:49	
ASTM D2974-87	Percent Moisture	29.3	%	0.10	02/13/18 11:29	
92372721012	**GP-16**					
EPA 6010	Barium	50.6	mg/kg	0.46	02/18/18 08:16	
EPA 6010	Chromium	17.0	mg/kg	0.46	02/18/18 08:16	
EPA 6010	Lead	15.8	mg/kg	0.46	02/18/18 08:16	
EPA 6010	Selenium	3.0	mg/kg	0.91	02/18/18 08:16	
EPA 7471	Mercury	0.034	mg/kg	0.0039	02/16/18 18:52	
ASTM D2974-87	Percent Moisture	24.0	%	0.10	02/13/18 11:29	
92372721013	**GP-17**					
EPA 6010	Arsenic	0.98	mg/kg	0.93	02/18/18 08:25	
EPA 6010	Barium	45.9	mg/kg	0.46	02/18/18 08:25	
EPA 6010	Chromium	15.3	mg/kg	0.46	02/18/18 08:25	
EPA 6010	Lead	7.0	mg/kg	0.46	02/18/18 08:25	
EPA 6010	Selenium	0.93	mg/kg	0.93	02/18/18 08:25	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	02/13/18 11:29	
92372721014	**GP-18**					
EPA 6010	Barium	37.0	mg/kg	0.49	02/18/18 08:29	
EPA 6010	Chromium	8.2	mg/kg	0.49	02/18/18 08:29	
EPA 6010	Lead	3.8	mg/kg	0.49	02/18/18 08:29	
ASTM D2974-87	Percent Moisture	9.6	%	0.10	02/13/18 11:29	
92372721015	**GP-19**					
EPA 6010	Arsenic	8.0	mg/kg	5.8	02/22/18 03:08	
EPA 6010	Barium	271	mg/kg	2.9	02/22/18 03:08	
EPA 6010	Chromium	319	mg/kg	2.9	02/22/18 03:08	
EPA 6010	Lead	18.0	mg/kg	2.9	02/23/18 03:24	
EPA 7471	Mercury	0.051	mg/kg	0.0052	02/16/18 19:04	
EPA 8260	Acetone	239	ug/kg	110	02/13/18 21:43	
ASTM D2974-87	Percent Moisture	19.8	%	0.10	02/13/18 11:30	
92372721016	**GP-20**					
EPA 6010	Arsenic	6.9	mg/kg	5.1	02/22/18 03:11	
EPA 6010	Barium	145	mg/kg	2.6	02/22/18 03:11	
EPA 6010	Chromium	51.5	mg/kg	2.6	02/22/18 03:11	
EPA 6010	Lead	16.4	mg/kg	2.6	02/23/18 03:27	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: DREXEL
Pace Project No.: 92372721

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92372721016	**GP-20**					
EPA 7471	Mercury	0.047	mg/kg	0.0053	02/16/18 19:06	
ASTM D2974-87	Percent Moisture	23.9	%	0.10	02/13/18 11:30	
92372721017	**GP-21**					
EPA 6010	Arsenic	2.5	mg/kg	1.1	02/18/18 08:39	
EPA 6010	Barium	113	mg/kg	1.1	02/20/18 07:09	
EPA 6010	Chromium	13.7	mg/kg	0.56	02/18/18 08:39	
EPA 6010	Lead	51.2	mg/kg	0.56	02/18/18 08:39	
EPA 6010	Selenium	2.3	mg/kg	1.1	02/18/18 08:39	
EPA 7471	Mercury	0.043	mg/kg	0.0034	02/16/18 19:08	
ASTM D2974-87	Percent Moisture	20.6	%	0.10	02/13/18 11:30	
92372721018	**GP-17D**					
EPA 6010	Barium	106	mg/kg	2.1	02/22/18 03:14	
EPA 6010	Chromium	17.3	mg/kg	2.1	02/22/18 03:14	
EPA 6010	Lead	27.0	mg/kg	2.1	02/23/18 03:30	
EPA 7471	Mercury	0.014	mg/kg	0.0039	02/16/18 19:11	
ASTM D2974-87	Percent Moisture	17.7	%	0.10	02/13/18 11:30	
92372721023	**GP-20D**					
EPA 6010	Arsenic	1.4	mg/kg	1.1	02/18/18 08:45	
EPA 6010	Barium	114	mg/kg	0.55	02/18/18 08:45	
EPA 6010	Chromium	36.2	mg/kg	0.55	02/18/18 08:45	
EPA 6010	Lead	8.5	mg/kg	0.55	02/18/18 08:45	
EPA 6010	Selenium	3.3	mg/kg	1.1	02/18/18 08:45	
EPA 7471	Mercury	0.021	mg/kg	0.0025	02/16/18 19:13	
ASTM D2974-87	Percent Moisture	23.5	%	0.10	02/13/18 11:38	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-6 **Lab ID: 92372721001** Collected: 02/07/18 09:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**2.9**	mg/kg	1.2	1	02/16/18 01:45	02/18/18 07:28	7440-38-2	
Barium	**137**	mg/kg	1.2	2	02/16/18 01:45	02/20/18 06:33	7440-39-3	
Cadmium	ND	mg/kg	0.12	1	02/16/18 01:45	02/18/18 07:28	7440-43-9	
Chromium	**21.7**	mg/kg	0.62	1	02/16/18 01:45	02/18/18 07:28	7440-47-3	
Lead	**18.8**	mg/kg	0.62	1	02/16/18 01:45	02/18/18 07:28	7439-92-1	
Selenium	**2.0**	mg/kg	1.2	1	02/16/18 01:45	02/18/18 07:28	7782-49-2	
Silver	ND	mg/kg	0.62	1	02/16/18 01:45	02/18/18 07:28	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0067	1	02/16/18 14:00	02/16/18 18:16	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	83-32-9	M1
Acenaphthylene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	208-96-8	
Aniline	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	62-53-3	
Anthracene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	120-12-7	
Benzo(a)anthracene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	207-08-9	
Benzoic Acid	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	65-85-0	M1
Benzyl alcohol	ND	ug/kg	850	1	02/16/18 13:27	02/19/18 14:01	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	101-55-3	
Butylbenzylphthalate	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	850	1	02/16/18 13:27	02/19/18 14:01	59-50-7	
4-Chloroaniline	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	111-44-4	
2-Chloronaphthalene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	91-58-7	
2-Chlorophenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	95-57-8	M1
4-Chlorophenylphenyl ether	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	7005-72-3	
Chrysene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	53-70-3	
Dibenzofuran	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	120-83-2	M1
Diethylphthalate	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	105-67-9	
Dimethylphthalate	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	131-11-3	
Di-n-butylphthalate	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	850	1	02/16/18 13:27	02/19/18 14:01	534-52-1	M1

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-6 **Lab ID: 92372721001** Collected: 02/07/18 09:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	51-28-5	M1
2,4-Dinitrotoluene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	606-20-2	
Di-n-octylphthalate	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	117-81-7	
Fluoranthene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	206-44-0	M1
Fluorene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	86-73-7	M1
Hexachloro-1,3-butadiene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	87-68-3	
Hexachlorobenzene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	77-47-4	
Hexachloroethane	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	67-72-1	M1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	193-39-5	
Isophorone	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	78-59-1	
1-Methylnaphthalene	**3660**	ug/kg	2130	5	02/16/18 13:27	02/19/18 15:31	90-12-0	M1
2-Methylnaphthalene	**5640**	ug/kg	2130	5	02/16/18 13:27	02/19/18 15:31	91-57-6	M1
2-Methylphenol(o-Cresol)	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	15831-10-4	
Naphthalene	**1880**	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	91-20-3	M1
2-Nitroaniline	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	88-74-4	
3-Nitroaniline	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	99-09-2	
4-Nitroaniline	ND	ug/kg	850	1	02/16/18 13:27	02/19/18 14:01	100-01-6	
Nitrobenzene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	98-95-3	
2-Nitrophenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	88-75-5	M1
4-Nitrophenol	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	100-02-7	M1
N-Nitrosodimethylamine	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	86-30-6	M1
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	108-60-1	
Pentachlorophenol	ND	ug/kg	2130	1	02/16/18 13:27	02/19/18 14:01	87-86-5	M1
Phenanthrene	**1940**	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	85-01-8	
Phenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	108-95-2	
Pyrene	**447**	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	95-95-4	M1
2,4,6-Trichlorophenol	ND	ug/kg	425	1	02/16/18 13:27	02/19/18 14:01	88-06-2	M1
Surrogates								
Nitrobenzene-d5 (S)	73	%	23-110	1	02/16/18 13:27	02/19/18 14:01	4165-60-0	
2-Fluorobiphenyl (S)	61	%	30-110	1	02/16/18 13:27	02/19/18 14:01	321-60-8	
Terphenyl-d14 (S)	86	%	28-110	1	02/16/18 13:27	02/19/18 14:01	1718-51-0	
Phenol-d6 (S)	14	%	22-110	1	02/16/18 13:27	02/19/18 14:01	13127-88-3	S2
2-Fluorophenol (S)	1	%	13-110	1	02/16/18 13:27	02/19/18 14:01	367-12-4	S2
2,4,6-Tribromophenol (S)	1	%	27-110	1	02/16/18 13:27	02/19/18 14:01	118-79-6	S2
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2670	25		02/11/18 19:10	67-64-1	
Benzene	ND	ug/kg	134	25		02/11/18 19:10	71-43-2	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-6 **Lab ID: 92372721001** Collected: 02/07/18 09:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	134	25		02/11/18 19:10	108-86-1	
Bromochloromethane	ND	ug/kg	134	25		02/11/18 19:10	74-97-5	
Bromodichloromethane	ND	ug/kg	134	25		02/11/18 19:10	75-27-4	
Bromoform	ND	ug/kg	134	25		02/11/18 19:10	75-25-2	
Bromomethane	ND	ug/kg	267	25		02/11/18 19:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2670	25		02/11/18 19:10	78-93-3	
n-Butylbenzene	**541**	ug/kg	134	25		02/11/18 19:10	104-51-8	
sec-Butylbenzene	**455**	ug/kg	134	25		02/11/18 19:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	134	25		02/11/18 19:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	134	25		02/11/18 19:10	56-23-5	
Chlorobenzene	ND	ug/kg	134	25		02/11/18 19:10	108-90-7	
Chloroethane	ND	ug/kg	267	25		02/11/18 19:10	75-00-3	
Chloroform	ND	ug/kg	134	25		02/11/18 19:10	67-66-3	
Chloromethane	ND	ug/kg	267	25		02/11/18 19:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	134	25		02/11/18 19:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	134	25		02/11/18 19:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	134	25		02/11/18 19:10	96-12-8	
Dibromochloromethane	ND	ug/kg	134	25		02/11/18 19:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	134	25		02/11/18 19:10	106-93-4	
Dibromomethane	ND	ug/kg	134	25		02/11/18 19:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	134	25		02/11/18 19:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	134	25		02/11/18 19:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	134	25		02/11/18 19:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	267	25		02/11/18 19:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	134	25		02/11/18 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	134	25		02/11/18 19:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	134	25		02/11/18 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	134	25		02/11/18 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	134	25		02/11/18 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	134	25		02/11/18 19:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	134	25		02/11/18 19:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	134	25		02/11/18 19:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	134	25		02/11/18 19:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	134	25		02/11/18 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	134	25		02/11/18 19:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	134	25		02/11/18 19:10	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	4010	25		02/11/18 19:10	123-91-1	
Ethylbenzene	ND	ug/kg	134	25		02/11/18 19:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	134	25		02/11/18 19:10	87-68-3	
2-Hexanone	ND	ug/kg	1340	25		02/11/18 19:10	591-78-6	
Isopropylbenzene (Cumene)	**142**	ug/kg	134	25		02/11/18 19:10	98-82-8	
p-Isopropyltoluene	**1020**	ug/kg	134	25		02/11/18 19:10	99-87-6	
Methylene Chloride	ND	ug/kg	534	25		02/11/18 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1340	25		02/11/18 19:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	134	25		02/11/18 19:10	1634-04-4	
Naphthalene	**2450**	ug/kg	134	25		02/11/18 19:10	91-20-3	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-6 **Lab ID: 92372721001** Collected: 02/07/18 09:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	**235**	ug/kg	134	25		02/11/18 19:10	103-65-1	
Styrene	ND	ug/kg	134	25		02/11/18 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	134	25		02/11/18 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	134	25		02/11/18 19:10	79-34-5	
Tetrachloroethene	ND	ug/kg	134	25		02/11/18 19:10	127-18-4	
Toluene	ND	ug/kg	134	25		02/11/18 19:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	134	25		02/11/18 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	134	25		02/11/18 19:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	134	25		02/11/18 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	134	25		02/11/18 19:10	79-00-5	
Trichloroethene	ND	ug/kg	134	25		02/11/18 19:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	134	25		02/11/18 19:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	134	25		02/11/18 19:10	96-18-4	
1,2,4-Trimethylbenzene	**2630**	ug/kg	134	25		02/11/18 19:10	95-63-6	
1,3,5-Trimethylbenzene	**700**	ug/kg	134	25		02/11/18 19:10	108-67-8	
Vinyl acetate	ND	ug/kg	1340	25		02/11/18 19:10	108-05-4	
Vinyl chloride	ND	ug/kg	267	25		02/11/18 19:10	75-01-4	
Xylene (Total)	**1070**	ug/kg	267	25		02/11/18 19:10	1330-20-7	
m&p-Xylene	**662**	ug/kg	267	25		02/11/18 19:10	179601-23-1	
o-Xylene	**405**	ug/kg	134	25		02/11/18 19:10	95-47-6	
Surrogates								
Toluene-d8 (S)	105	%	70-130	25		02/11/18 19:10	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130	25		02/11/18 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132	25		02/11/18 19:10	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.5**	%	0.10	1		02/13/18 11:28		

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7 **Lab ID: 92372721002** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**6.6**	mg/kg	6.5	5	02/16/18 01:45	02/22/18 02:49	7440-38-2	
Barium	**81.1**	mg/kg	3.2	5	02/16/18 01:45	02/22/18 02:49	7440-39-3	
Cadmium	ND	mg/kg	0.65	5	02/16/18 01:45	02/22/18 02:49	7440-43-9	D3
Chromium	**14.5**	mg/kg	3.2	5	02/16/18 01:45	02/22/18 02:49	7440-47-3	
Lead	**12.8**	mg/kg	3.2	5	02/16/18 01:45	02/22/18 02:49	7439-92-1	
Selenium	ND	mg/kg	6.5	5	02/16/18 01:45	02/22/18 02:49	7782-49-2	D3
Silver	ND	mg/kg	3.2	5	02/16/18 01:45	02/22/18 02:49	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0081	1	02/16/18 14:00	02/16/18 18:23	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	83-32-9	
Acenaphthylene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	208-96-8	
Aniline	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	62-53-3	
Anthracene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	120-12-7	
Benzo(a)anthracene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	56-55-3	
Benzo(a)pyrene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	207-08-9	
Benzoic Acid	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	65-85-0	
Benzyl alcohol	ND	ug/kg	890	1	02/13/18 06:05	02/15/18 16:55	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	101-55-3	
Butylbenzylphthalate	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	890	1	02/13/18 06:05	02/15/18 16:55	59-50-7	
4-Chloroaniline	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	111-44-4	
2-Chloronaphthalene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	91-58-7	
2-Chlorophenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	7005-72-3	
Chrysene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	53-70-3	
Dibenzofuran	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	120-83-2	
Diethylphthalate	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	105-67-9	
Dimethylphthalate	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	131-11-3	
Di-n-butylphthalate	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	890	1	02/13/18 06:05	02/15/18 16:55	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7 **Lab ID: 92372721002** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	606-20-2	
Di-n-octylphthalate	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	117-81-7	
Fluoranthene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	206-44-0	
Fluorene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	87-68-3	
Hexachlorobenzene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	77-47-4	
Hexachloroethane	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	193-39-5	
Isophorone	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	78-59-1	
1-Methylnaphthalene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	90-12-0	
2-Methylnaphthalene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	15831-10-4	
Naphthalene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	91-20-3	
2-Nitroaniline	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	88-74-4	
3-Nitroaniline	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	99-09-2	
4-Nitroaniline	ND	ug/kg	890	1	02/13/18 06:05	02/15/18 16:55	100-01-6	
Nitrobenzene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	98-95-3	
2-Nitrophenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	88-75-5	
4-Nitrophenol	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	108-60-1	
Pentachlorophenol	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 16:55	87-86-5	
Phenanthrene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	85-01-8	
Phenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	108-95-2	
Pyrene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	445	1	02/13/18 06:05	02/15/18 16:55	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	23-110	1	02/13/18 06:05	02/15/18 16:55	4165-60-0	
2-Fluorobiphenyl (S)	58	%	30-110	1	02/13/18 06:05	02/15/18 16:55	321-60-8	
Terphenyl-d14 (S)	69	%	28-110	1	02/13/18 06:05	02/15/18 16:55	1718-51-0	
Phenol-d6 (S)	61	%	22-110	1	02/13/18 06:05	02/15/18 16:55	13127-88-3	
2-Fluorophenol (S)	61	%	13-110	1	02/13/18 06:05	02/15/18 16:55	367-12-4	
2,4,6-Tribromophenol (S)	77	%	27-110	1	02/13/18 06:05	02/15/18 16:55	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	113	1		02/11/18 19:30	67-64-1	
Benzene	ND	ug/kg	5.7	1		02/11/18 19:30	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7 **Lab ID: 92372721002** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		02/11/18 19:30	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		02/11/18 19:30	75-27-4	
Bromoform	ND	ug/kg	5.7	1		02/11/18 19:30	75-25-2	
Bromomethane	ND	ug/kg	11.3	1		02/11/18 19:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	113	1		02/11/18 19:30	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.7	1		02/11/18 19:30	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	108-90-7	
Chloroethane	ND	ug/kg	11.3	1		02/11/18 19:30	75-00-3	
Chloroform	ND	ug/kg	5.7	1		02/11/18 19:30	67-66-3	
Chloromethane	ND	ug/kg	11.3	1		02/11/18 19:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		02/11/18 19:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		02/11/18 19:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	1		02/11/18 19:30	96-12-8	
Dibromochloromethane	ND	ug/kg	5.7	1		02/11/18 19:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		02/11/18 19:30	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		02/11/18 19:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.3	1		02/11/18 19:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		02/11/18 19:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		02/11/18 19:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		02/11/18 19:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		02/11/18 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		02/11/18 19:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		02/11/18 19:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		02/11/18 19:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		02/11/18 19:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		02/11/18 19:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		02/11/18 19:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		02/11/18 19:30	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.7	1		02/11/18 19:30	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	170	1		02/11/18 19:30	123-91-1	
Ethylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		02/11/18 19:30	87-68-3	
2-Hexanone	ND	ug/kg	56.6	1		02/11/18 19:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		02/11/18 19:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		02/11/18 19:30	99-87-6	
Methylene Chloride	ND	ug/kg	22.6	1		02/11/18 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	56.6	1		02/11/18 19:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		02/11/18 19:30	1634-04-4	
Naphthalene	ND	ug/kg	5.7	1		02/11/18 19:30	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7 **Lab ID: 92372721002** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	103-65-1	
Styrene	ND	ug/kg	5.7	1		02/11/18 19:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		02/11/18 19:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		02/11/18 19:30	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		02/11/18 19:30	127-18-4	
Toluene	ND	ug/kg	5.7	1		02/11/18 19:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		02/11/18 19:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		02/11/18 19:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		02/11/18 19:30	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		02/11/18 19:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		02/11/18 19:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		02/11/18 19:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		02/11/18 19:30	108-67-8	
Vinyl acetate	ND	ug/kg	56.6	1		02/11/18 19:30	108-05-4	
Vinyl chloride	ND	ug/kg	11.3	1		02/11/18 19:30	75-01-4	
Xylene (Total)	ND	ug/kg	11.3	1		02/11/18 19:30	1330-20-7	
m&p-Xylene	ND	ug/kg	11.3	1		02/11/18 19:30	179601-23-1	
o-Xylene	ND	ug/kg	5.7	1		02/11/18 19:30	95-47-6	
Surrogates								
Toluene-d8 (S)	105	%	70-130	1		02/11/18 19:30	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/11/18 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	70-132	1		02/11/18 19:30	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.8**	%	0.10	1		02/13/18 11:28		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-8 **Lab ID: 92372721003** Collected: 02/07/18 12:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**55.6**	mg/kg	0.84	1	02/16/18 01:45	02/18/18 07:48	7440-38-2	
Barium	**63.9**	mg/kg	0.42	1	02/16/18 01:45	02/18/18 07:48	7440-39-3	
Cadmium	**0.50**	mg/kg	0.084	1	02/16/18 01:45	02/18/18 07:48	7440-43-9	
Chromium	**10.1**	mg/kg	0.42	1	02/16/18 01:45	02/18/18 07:48	7440-47-3	
Lead	**10.7**	mg/kg	0.42	1	02/16/18 01:45	02/18/18 07:48	7439-92-1	
Selenium	**1.5**	mg/kg	0.84	1	02/16/18 01:45	02/18/18 07:48	7782-49-2	
Silver	ND	mg/kg	0.42	1	02/16/18 01:45	02/18/18 07:48	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.027**	mg/kg	0.0063	1	02/16/18 14:00	02/16/18 18:26	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	83-32-9	
Acenaphthylene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	208-96-8	
Aniline	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	62-53-3	
Anthracene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	120-12-7	
Benzo(a)anthracene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	207-08-9	
Benzoic Acid	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	65-85-0	
Benzyl alcohol	ND	ug/kg	791	1	02/13/18 06:05	02/16/18 10:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	791	1	02/13/18 06:05	02/16/18 10:04	59-50-7	
4-Chloroaniline	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	111-44-4	
2-Chloronaphthalene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	91-58-7	
2-Chlorophenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	7005-72-3	
Chrysene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	53-70-3	
Dibenzofuran	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	120-83-2	
Diethylphthalate	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	105-67-9	
Dimethylphthalate	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	791	1	02/13/18 06:05	02/16/18 10:04	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-8 **Lab ID: 92372721003** Collected: 02/07/18 12:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	117-84-0	
bis(2-Ethylhexyl)phthalate	**501**	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	117-81-7	
Fluoranthene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	206-44-0	
Fluorene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	77-47-4	
Hexachloroethane	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	193-39-5	
Isophorone	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	15831-10-4	
Naphthalene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	91-20-3	
2-Nitroaniline	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	88-74-4	
3-Nitroaniline	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	99-09-2	
4-Nitroaniline	ND	ug/kg	791	1	02/13/18 06:05	02/16/18 10:04	100-01-6	
Nitrobenzene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	98-95-3	
2-Nitrophenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	88-75-5	
4-Nitrophenol	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	108-60-1	
Pentachlorophenol	ND	ug/kg	1980	1	02/13/18 06:05	02/16/18 10:04	87-86-5	
Phenanthrene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	85-01-8	
Phenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	108-95-2	
Pyrene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	1	02/13/18 06:05	02/16/18 10:04	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	64	%	23-110	1	02/13/18 06:05	02/16/18 10:04	4165-60-0	
2-Fluorobiphenyl (S)	61	%	30-110	1	02/13/18 06:05	02/16/18 10:04	321-60-8	
Terphenyl-d14 (S)	74	%	28-110	1	02/13/18 06:05	02/16/18 10:04	1718-51-0	
Phenol-d6 (S)	61	%	22-110	1	02/13/18 06:05	02/16/18 10:04	13127-88-3	
2-Fluorophenol (S)	55	%	13-110	1	02/13/18 06:05	02/16/18 10:04	367-12-4	
2,4,6-Tribromophenol (S)	76	%	27-110	1	02/13/18 06:05	02/16/18 10:04	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**122**	ug/kg	106	1		02/11/18 19:50	67-64-1	
Benzene	ND	ug/kg	5.3	1		02/11/18 19:50	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-8 **Lab ID: 92372721003** Collected: 02/07/18 12:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		02/11/18 19:50	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		02/11/18 19:50	75-27-4	
Bromoform	ND	ug/kg	5.3	1		02/11/18 19:50	75-25-2	
Bromomethane	ND	ug/kg	10.6	1		02/11/18 19:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	106	1		02/11/18 19:50	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1		02/11/18 19:50	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	108-90-7	
Chloroethane	ND	ug/kg	10.6	1		02/11/18 19:50	75-00-3	
Chloroform	ND	ug/kg	5.3	1		02/11/18 19:50	67-66-3	
Chloromethane	ND	ug/kg	10.6	1		02/11/18 19:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		02/11/18 19:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		02/11/18 19:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		02/11/18 19:50	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		02/11/18 19:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		02/11/18 19:50	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		02/11/18 19:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.6	1		02/11/18 19:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		02/11/18 19:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		02/11/18 19:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		02/11/18 19:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/11/18 19:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/11/18 19:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		02/11/18 19:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		02/11/18 19:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		02/11/18 19:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		02/11/18 19:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/11/18 19:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/11/18 19:50	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1		02/11/18 19:50	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	159	1		02/11/18 19:50	123-91-1	
Ethylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		02/11/18 19:50	87-68-3	
2-Hexanone	ND	ug/kg	53.1	1		02/11/18 19:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		02/11/18 19:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		02/11/18 19:50	99-87-6	
Methylene Chloride	ND	ug/kg	21.2	1		02/11/18 19:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.1	1		02/11/18 19:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		02/11/18 19:50	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		02/11/18 19:50	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-8 **Lab ID: 92372721003** Collected: 02/07/18 12:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	103-65-1	
Styrene	ND	ug/kg	5.3	1		02/11/18 19:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/11/18 19:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/11/18 19:50	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		02/11/18 19:50	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/11/18 19:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		02/11/18 19:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/11/18 19:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		02/11/18 19:50	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		02/11/18 19:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		02/11/18 19:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		02/11/18 19:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		02/11/18 19:50	108-67-8	
Vinyl acetate	ND	ug/kg	53.1	1		02/11/18 19:50	108-05-4	
Vinyl chloride	ND	ug/kg	10.6	1		02/11/18 19:50	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		02/11/18 19:50	1330-20-7	
m&p-Xylene	ND	ug/kg	10.6	1		02/11/18 19:50	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1		02/11/18 19:50	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		02/11/18 19:50	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130	1		02/11/18 19:50	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	70-132	1		02/11/18 19:50	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.5**	%	0.10	1		02/13/18 11:28		

REPORT OF LABORATORY ANALYSIS

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-9 **Lab ID: 92372721004** Collected: 02/07/18 13:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.2	1	02/16/18 01:45	02/18/18 07:51	7440-38-2	
Barium	**86.5**	mg/kg	0.59	1	02/16/18 01:45	02/18/18 07:51	7440-39-3	
Cadmium	ND	mg/kg	0.12	1	02/16/18 01:45	02/18/18 07:51	7440-43-9	
Chromium	**12.6**	mg/kg	0.59	1	02/16/18 01:45	02/18/18 07:51	7440-47-3	
Lead	**10.8**	mg/kg	0.59	1	02/16/18 01:45	02/18/18 07:51	7439-92-1	
Selenium	ND	mg/kg	1.2	1	02/16/18 01:45	02/18/18 07:51	7782-49-2	
Silver	ND	mg/kg	0.59	1	02/16/18 01:45	02/18/18 07:51	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.032**	mg/kg	0.0054	1	02/16/18 14:00	02/16/18 18:28	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	83-32-9	
Acenaphthylene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	208-96-8	
Aniline	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	62-53-3	
Anthracene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	120-12-7	
Benzo(a)anthracene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	56-55-3	
Benzo(a)pyrene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	207-08-9	
Benzoic Acid	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	65-85-0	
Benzyl alcohol	ND	ug/kg	895	1	02/13/18 06:05	02/16/18 10:34	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	101-55-3	
Butylbenzylphthalate	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	895	1	02/13/18 06:05	02/16/18 10:34	59-50-7	
4-Chloroaniline	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	111-44-4	
2-Chloronaphthalene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	91-58-7	
2-Chlorophenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	7005-72-3	
Chrysene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	53-70-3	
Dibenzofuran	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	120-83-2	
Diethylphthalate	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	105-67-9	
Dimethylphthalate	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	131-11-3	
Di-n-butylphthalate	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	895	1	02/13/18 06:05	02/16/18 10:34	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-9 **Lab ID: 92372721004** Collected: 02/07/18 13:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	606-20-2	
Di-n-octylphthalate	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	117-81-7	
Fluoranthene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	206-44-0	
Fluorene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	87-68-3	
Hexachlorobenzene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	77-47-4	
Hexachloroethane	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	193-39-5	
Isophorone	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	78-59-1	
1-Methylnaphthalene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	90-12-0	
2-Methylnaphthalene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	15831-10-4	
Naphthalene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	91-20-3	
2-Nitroaniline	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	88-74-4	
3-Nitroaniline	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	99-09-2	
4-Nitroaniline	ND	ug/kg	895	1	02/13/18 06:05	02/16/18 10:34	100-01-6	
Nitrobenzene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	98-95-3	
2-Nitrophenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	88-75-5	
4-Nitrophenol	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	108-60-1	
Pentachlorophenol	ND	ug/kg	2240	1	02/13/18 06:05	02/16/18 10:34	87-86-5	
Phenanthrene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	85-01-8	
Phenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	108-95-2	
Pyrene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	448	1	02/13/18 06:05	02/16/18 10:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%	23-110	1	02/13/18 06:05	02/16/18 10:34	4165-60-0	
2-Fluorobiphenyl (S)	72	%	30-110	1	02/13/18 06:05	02/16/18 10:34	321-60-8	
Terphenyl-d14 (S)	93	%	28-110	1	02/13/18 06:05	02/16/18 10:34	1718-51-0	
Phenol-d6 (S)	71	%	22-110	1	02/13/18 06:05	02/16/18 10:34	13127-88-3	
2-Fluorophenol (S)	68	%	13-110	1	02/13/18 06:05	02/16/18 10:34	367-12-4	
2,4,6-Tribromophenol (S)	94	%	27-110	1	02/13/18 06:05	02/16/18 10:34	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	134	1		02/12/18 10:27	67-64-1	
Benzene	ND	ug/kg	6.7	1		02/12/18 10:27	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-9 **Lab ID: 92372721004** Collected: 02/07/18 13:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	108-86-1	
Bromochloromethane	ND	ug/kg	6.7	1		02/12/18 10:27	74-97-5	
Bromodichloromethane	ND	ug/kg	6.7	1		02/12/18 10:27	75-27-4	
Bromoform	ND	ug/kg	6.7	1		02/12/18 10:27	75-25-2	
Bromomethane	ND	ug/kg	13.4	1		02/12/18 10:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	134	1		02/12/18 10:27	78-93-3	
n-Butylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.7	1		02/12/18 10:27	56-23-5	
Chlorobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	108-90-7	
Chloroethane	ND	ug/kg	13.4	1		02/12/18 10:27	75-00-3	
Chloroform	ND	ug/kg	6.7	1		02/12/18 10:27	67-66-3	
Chloromethane	ND	ug/kg	13.4	1		02/12/18 10:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.7	1		02/12/18 10:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.7	1		02/12/18 10:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.7	1		02/12/18 10:27	96-12-8	
Dibromochloromethane	ND	ug/kg	6.7	1		02/12/18 10:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.7	1		02/12/18 10:27	106-93-4	
Dibromomethane	ND	ug/kg	6.7	1		02/12/18 10:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.4	1		02/12/18 10:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.7	1		02/12/18 10:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.7	1		02/12/18 10:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.7	1		02/12/18 10:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.7	1		02/12/18 10:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.7	1		02/12/18 10:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.7	1		02/12/18 10:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.7	1		02/12/18 10:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.7	1		02/12/18 10:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.7	1		02/12/18 10:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.7	1		02/12/18 10:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.7	1		02/12/18 10:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.7	1		02/12/18 10:27	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	201	1		02/12/18 10:27	123-91-1	
Ethylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.7	1		02/12/18 10:27	87-68-3	
2-Hexanone	ND	ug/kg	67.2	1		02/12/18 10:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.7	1		02/12/18 10:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.7	1		02/12/18 10:27	99-87-6	
Methylene Chloride	ND	ug/kg	26.9	1		02/12/18 10:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	67.2	1		02/12/18 10:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.7	1		02/12/18 10:27	1634-04-4	
Naphthalene	ND	ug/kg	6.7	1		02/12/18 10:27	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-9 **Lab ID: 92372721004** Collected: 02/07/18 13:10 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	103-65-1	
Styrene	ND	ug/kg	6.7	1		02/12/18 10:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.7	1		02/12/18 10:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.7	1		02/12/18 10:27	79-34-5	
Tetrachloroethene	ND	ug/kg	6.7	1		02/12/18 10:27	127-18-4	
Toluene	ND	ug/kg	6.7	1		02/12/18 10:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.7	1		02/12/18 10:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.7	1		02/12/18 10:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.7	1		02/12/18 10:27	79-00-5	
Trichloroethene	ND	ug/kg	6.7	1		02/12/18 10:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.7	1		02/12/18 10:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.7	1		02/12/18 10:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.7	1		02/12/18 10:27	108-67-8	
Vinyl acetate	ND	ug/kg	67.2	1		02/12/18 10:27	108-05-4	
Vinyl chloride	ND	ug/kg	13.4	1		02/12/18 10:27	75-01-4	
Xylene (Total)	ND	ug/kg	13.4	1		02/12/18 10:27	1330-20-7	
m&p-Xylene	ND	ug/kg	13.4	1		02/12/18 10:27	179601-23-1	
o-Xylene	ND	ug/kg	6.7	1		02/12/18 10:27	95-47-6	
Surrogates								
Toluene-d8 (S)	91	%	70-130	1		02/12/18 10:27	2037-26-5	1g
4-Bromofluorobenzene (S)	76	%	70-130	1		02/12/18 10:27	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132	1		02/12/18 10:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.0**	%	0.10	1		02/13/18 11:28		

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-10 **Lab ID: 92372721005** Collected: 02/07/18 14:45 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.1	1	02/16/18 01:45	02/18/18 07:54	7440-38-2	
Barium	**172**	mg/kg	1.1	2	02/16/18 01:45	02/20/18 06:45	7440-39-3	
Cadmium	ND	mg/kg	0.11	1	02/16/18 01:45	02/18/18 07:54	7440-43-9	
Chromium	**22.0**	mg/kg	0.55	1	02/16/18 01:45	02/18/18 07:54	7440-47-3	
Lead	**6.7**	mg/kg	0.55	1	02/16/18 01:45	02/18/18 07:54	7439-92-1	
Selenium	**1.9**	mg/kg	1.1	1	02/16/18 01:45	02/18/18 07:54	7782-49-2	
Silver	ND	mg/kg	0.55	1	02/16/18 01:45	02/18/18 07:54	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0084**	mg/kg	0.0064	1	02/16/18 14:00	02/16/18 18:31	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	83-32-9	
Acenaphthylene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	208-96-8	
Aniline	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	62-53-3	
Anthracene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	207-08-9	
Benzoic Acid	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	65-85-0	
Benzyl alcohol	ND	ug/kg	866	1	02/13/18 06:05	02/15/18 18:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	101-55-3	
Butylbenzylphthalate	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	866	1	02/13/18 06:05	02/15/18 18:26	59-50-7	
4-Chloroaniline	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	111-44-4	
2-Chloronaphthalene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	91-58-7	
2-Chlorophenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	7005-72-3	
Chrysene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	53-70-3	
Dibenzofuran	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	120-83-2	
Diethylphthalate	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	105-67-9	
Dimethylphthalate	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	131-11-3	
Di-n-butylphthalate	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	866	1	02/13/18 06:05	02/15/18 18:26	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-10 **Lab ID: 92372721005** Collected: 02/07/18 14:45 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	606-20-2	
Di-n-octylphthalate	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	117-81-7	
Fluoranthene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	206-44-0	
Fluorene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	87-68-3	
Hexachlorobenzene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	77-47-4	
Hexachloroethane	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	193-39-5	
Isophorone	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	78-59-1	
1-Methylnaphthalene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	90-12-0	
2-Methylnaphthalene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	15831-10-4	
Naphthalene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	91-20-3	
2-Nitroaniline	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	88-74-4	
3-Nitroaniline	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	99-09-2	
4-Nitroaniline	ND	ug/kg	866	1	02/13/18 06:05	02/15/18 18:26	100-01-6	
Nitrobenzene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	98-95-3	
2-Nitrophenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	88-75-5	
4-Nitrophenol	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	108-60-1	
Pentachlorophenol	ND	ug/kg	2160	1	02/13/18 06:05	02/15/18 18:26	87-86-5	
Phenanthrene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	85-01-8	
Phenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	108-95-2	
Pyrene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	433	1	02/13/18 06:05	02/15/18 18:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	23-110	1	02/13/18 06:05	02/15/18 18:26	4165-60-0	
2-Fluorobiphenyl (S)	50	%	30-110	1	02/13/18 06:05	02/15/18 18:26	321-60-8	
Terphenyl-d14 (S)	39	%	28-110	1	02/13/18 06:05	02/15/18 18:26	1718-51-0	
Phenol-d6 (S)	62	%	22-110	1	02/13/18 06:05	02/15/18 18:26	13127-88-3	
2-Fluorophenol (S)	61	%	13-110	1	02/13/18 06:05	02/15/18 18:26	367-12-4	
2,4,6-Tribromophenol (S)	75	%	27-110	1	02/13/18 06:05	02/15/18 18:26	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	76.4	1		02/12/18 10:48	67-64-1	
Benzene	ND	ug/kg	3.8	1		02/12/18 10:48	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-10 **Lab ID: 92372721005** Collected: 02/07/18 14:45 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		02/12/18 10:48	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		02/12/18 10:48	75-27-4	
Bromoform	ND	ug/kg	3.8	1		02/12/18 10:48	75-25-2	
Bromomethane	ND	ug/kg	7.6	1		02/12/18 10:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	76.4	1		02/12/18 10:48	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.8	1		02/12/18 10:48	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	108-90-7	
Chloroethane	ND	ug/kg	7.6	1		02/12/18 10:48	75-00-3	
Chloroform	ND	ug/kg	3.8	1		02/12/18 10:48	67-66-3	
Chloromethane	ND	ug/kg	7.6	1		02/12/18 10:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		02/12/18 10:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		02/12/18 10:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.8	1		02/12/18 10:48	96-12-8	
Dibromochloromethane	ND	ug/kg	3.8	1		02/12/18 10:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		02/12/18 10:48	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		02/12/18 10:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.6	1		02/12/18 10:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		02/12/18 10:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		02/12/18 10:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		02/12/18 10:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		02/12/18 10:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		02/12/18 10:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		02/12/18 10:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		02/12/18 10:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		02/12/18 10:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		02/12/18 10:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		02/12/18 10:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		02/12/18 10:48	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.8	1		02/12/18 10:48	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	115	1		02/12/18 10:48	123-91-1	
Ethylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		02/12/18 10:48	87-68-3	
2-Hexanone	ND	ug/kg	38.2	1		02/12/18 10:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1		02/12/18 10:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		02/12/18 10:48	99-87-6	
Methylene Chloride	ND	ug/kg	15.3	1		02/12/18 10:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	38.2	1		02/12/18 10:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		02/12/18 10:48	1634-04-4	
Naphthalene	ND	ug/kg	3.8	1		02/12/18 10:48	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-10 **Lab ID: 92372721005** Collected: 02/07/18 14:45 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	103-65-1	
Styrene	ND	ug/kg	3.8	1		02/12/18 10:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		02/12/18 10:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		02/12/18 10:48	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		02/12/18 10:48	127-18-4	
Toluene	ND	ug/kg	3.8	1		02/12/18 10:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		02/12/18 10:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		02/12/18 10:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		02/12/18 10:48	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		02/12/18 10:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		02/12/18 10:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		02/12/18 10:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1		02/12/18 10:48	108-67-8	
Vinyl acetate	ND	ug/kg	38.2	1		02/12/18 10:48	108-05-4	
Vinyl chloride	ND	ug/kg	7.6	1		02/12/18 10:48	75-01-4	
Xylene (Total)	ND	ug/kg	7.6	1		02/12/18 10:48	1330-20-7	
m&p-Xylene	ND	ug/kg	7.6	1		02/12/18 10:48	179601-23-1	
o-Xylene	ND	ug/kg	3.8	1		02/12/18 10:48	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		02/12/18 10:48	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		02/12/18 10:48	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-132	1		02/12/18 10:48	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.3**	%	0.10	1		02/13/18 11:28		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7D **Lab ID: 92372721006** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**18.1**	mg/kg	5.9	5	02/16/18 01:45	02/22/18 03:05	7440-38-2	
Barium	**116**	mg/kg	2.9	5	02/16/18 01:45	02/22/18 03:05	7440-39-3	
Cadmium	ND	mg/kg	0.59	5	02/16/18 01:45	02/22/18 03:05	7440-43-9	D3
Chromium	**42.8**	mg/kg	2.9	5	02/16/18 01:45	02/22/18 03:05	7440-47-3	
Lead	**8.5**	mg/kg	2.9	5	02/16/18 01:45	02/23/18 03:21	7439-92-1	
Selenium	ND	mg/kg	5.9	5	02/16/18 01:45	02/22/18 03:05	7782-49-2	D3
Silver	ND	mg/kg	2.9	5	02/16/18 01:45	02/20/18 06:48	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0053	1	02/16/18 14:00	02/16/18 18:33	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	83-32-9	
Acenaphthylene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	208-96-8	
Aniline	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	62-53-3	
Anthracene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	120-12-7	
Benzo(a)anthracene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	56-55-3	
Benzo(a)pyrene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	207-08-9	
Benzoic Acid	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	65-85-0	
Benzyl alcohol	ND	ug/kg	886	1	02/13/18 06:05	02/15/18 18:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	101-55-3	
Butylbenzylphthalate	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	886	1	02/13/18 06:05	02/15/18 18:56	59-50-7	
4-Chloroaniline	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	111-44-4	
2-Chloronaphthalene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	91-58-7	
2-Chlorophenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	7005-72-3	
Chrysene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	53-70-3	
Dibenzofuran	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	120-83-2	
Diethylphthalate	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	105-67-9	
Dimethylphthalate	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	131-11-3	
Di-n-butylphthalate	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	886	1	02/13/18 06:05	02/15/18 18:56	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7D **Lab ID: 92372721006** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	606-20-2	
Di-n-octylphthalate	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	117-81-7	
Fluoranthene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	206-44-0	
Fluorene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	87-68-3	
Hexachlorobenzene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	77-47-4	
Hexachloroethane	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	193-39-5	
Isophorone	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	78-59-1	
1-Methylnaphthalene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	90-12-0	
2-Methylnaphthalene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	15831-10-4	
Naphthalene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	91-20-3	
2-Nitroaniline	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	88-74-4	
3-Nitroaniline	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	99-09-2	
4-Nitroaniline	ND	ug/kg	886	1	02/13/18 06:05	02/15/18 18:56	100-01-6	
Nitrobenzene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	98-95-3	
2-Nitrophenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	88-75-5	
4-Nitrophenol	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	108-60-1	
Pentachlorophenol	ND	ug/kg	2220	1	02/13/18 06:05	02/15/18 18:56	87-86-5	
Phenanthrene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	85-01-8	
Phenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	108-95-2	
Pyrene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	443	1	02/13/18 06:05	02/15/18 18:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%	23-110	1	02/13/18 06:05	02/15/18 18:56	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-110	1	02/13/18 06:05	02/15/18 18:56	321-60-8	
Terphenyl-d14 (S)	59	%	28-110	1	02/13/18 06:05	02/15/18 18:56	1718-51-0	
Phenol-d6 (S)	64	%	22-110	1	02/13/18 06:05	02/15/18 18:56	13127-88-3	
2-Fluorophenol (S)	63	%	13-110	1	02/13/18 06:05	02/15/18 18:56	367-12-4	
2,4,6-Tribromophenol (S)	84	%	27-110	1	02/13/18 06:05	02/15/18 18:56	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	115	1		02/12/18 11:08	67-64-1	
Benzene	ND	ug/kg	5.7	1		02/12/18 11:08	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7D **Lab ID: 92372721006** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1		02/12/18 11:08	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1		02/12/18 11:08	75-27-4	
Bromoform	ND	ug/kg	5.7	1		02/12/18 11:08	75-25-2	
Bromomethane	ND	ug/kg	11.5	1		02/12/18 11:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	115	1		02/12/18 11:08	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.7	1		02/12/18 11:08	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	108-90-7	
Chloroethane	ND	ug/kg	11.5	1		02/12/18 11:08	75-00-3	
Chloroform	ND	ug/kg	5.7	1		02/12/18 11:08	67-66-3	
Chloromethane	ND	ug/kg	11.5	1		02/12/18 11:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1		02/12/18 11:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1		02/12/18 11:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	1		02/12/18 11:08	96-12-8	
Dibromochloromethane	ND	ug/kg	5.7	1		02/12/18 11:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1		02/12/18 11:08	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1		02/12/18 11:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.5	1		02/12/18 11:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.7	1		02/12/18 11:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1		02/12/18 11:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.7	1		02/12/18 11:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1		02/12/18 11:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1		02/12/18 11:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1		02/12/18 11:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1		02/12/18 11:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1		02/12/18 11:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1		02/12/18 11:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1		02/12/18 11:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1		02/12/18 11:08	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.7	1		02/12/18 11:08	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	172	1		02/12/18 11:08	123-91-1	
Ethylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1		02/12/18 11:08	87-68-3	
2-Hexanone	ND	ug/kg	57.5	1		02/12/18 11:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1		02/12/18 11:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.7	1		02/12/18 11:08	99-87-6	
Methylene Chloride	ND	ug/kg	23.0	1		02/12/18 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.5	1		02/12/18 11:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	1		02/12/18 11:08	1634-04-4	
Naphthalene	ND	ug/kg	5.7	1		02/12/18 11:08	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-7D **Lab ID: 92372721006** Collected: 02/07/18 09:35 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	103-65-1	
Styrene	ND	ug/kg	5.7	1		02/12/18 11:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1		02/12/18 11:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1		02/12/18 11:08	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	1		02/12/18 11:08	127-18-4	
Toluene	ND	ug/kg	5.7	1		02/12/18 11:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1		02/12/18 11:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1		02/12/18 11:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1		02/12/18 11:08	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1		02/12/18 11:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.7	1		02/12/18 11:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.7	1		02/12/18 11:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1		02/12/18 11:08	108-67-8	
Vinyl acetate	ND	ug/kg	57.5	1		02/12/18 11:08	108-05-4	
Vinyl chloride	ND	ug/kg	11.5	1		02/12/18 11:08	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		02/12/18 11:08	1330-20-7	
m&p-Xylene	ND	ug/kg	11.5	1		02/12/18 11:08	179601-23-1	
o-Xylene	ND	ug/kg	5.7	1		02/12/18 11:08	95-47-6	
Surrogates								
Toluene-d8 (S)	107	%	70-130	1		02/12/18 11:08	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	1		02/12/18 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	1		02/12/18 11:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.5**	%	0.10	1		02/13/18 11:28		

REPORT OF LABORATORY ANALYSIS

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-11 **Lab ID: 92372721007** Collected: 02/07/18 15:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**3.5**	mg/kg	0.90	1	02/16/18 01:45	02/18/18 08:00	7440-38-2	
Barium	**107**	mg/kg	0.45	1	02/16/18 01:45	02/18/18 08:00	7440-39-3	
Cadmium	**0.22**	mg/kg	0.090	1	02/16/18 01:45	02/18/18 08:00	7440-43-9	
Chromium	**15.2**	mg/kg	0.45	1	02/16/18 01:45	02/18/18 08:00	7440-47-3	
Lead	**69.5**	mg/kg	0.45	1	02/16/18 01:45	02/18/18 08:00	7439-92-1	
Selenium	**1.3**	mg/kg	0.90	1	02/16/18 01:45	02/18/18 08:00	7782-49-2	
Silver	ND	mg/kg	0.45	1	02/16/18 01:45	02/18/18 08:00	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.021**	mg/kg	0.0062	1	02/16/18 14:00	02/16/18 18:40	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	83-32-9	
Acenaphthylene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	208-96-8	
Aniline	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	62-53-3	
Anthracene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	207-08-9	
Benzoic Acid	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	65-85-0	
Benzyl alcohol	ND	ug/kg	792	1	02/13/18 06:05	02/15/18 19:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	101-55-3	
Butylbenzylphthalate	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	792	1	02/13/18 06:05	02/15/18 19:26	59-50-7	
4-Chloroaniline	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	111-44-4	
2-Chloronaphthalene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	91-58-7	
2-Chlorophenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	7005-72-3	
Chrysene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	53-70-3	
Dibenzofuran	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	120-83-2	
Diethylphthalate	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	105-67-9	
Dimethylphthalate	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	131-11-3	
Di-n-butylphthalate	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	792	1	02/13/18 06:05	02/15/18 19:26	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-11 **Lab ID: 92372721007** Collected: 02/07/18 15:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	606-20-2	
Di-n-octylphthalate	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	117-84-0	
bis(2-Ethylhexyl)phthalate	**2060**	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	117-81-7	
Fluoranthene	**422**	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	206-44-0	
Fluorene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	87-68-3	
Hexachlorobenzene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	77-47-4	
Hexachloroethane	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	193-39-5	
Isophorone	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	78-59-1	
1-Methylnaphthalene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	90-12-0	
2-Methylnaphthalene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	15831-10-4	
Naphthalene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	91-20-3	
2-Nitroaniline	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	88-74-4	
3-Nitroaniline	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	99-09-2	
4-Nitroaniline	ND	ug/kg	792	1	02/13/18 06:05	02/15/18 19:26	100-01-6	
Nitrobenzene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	98-95-3	
2-Nitrophenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	88-75-5	
4-Nitrophenol	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	108-60-1	
Pentachlorophenol	ND	ug/kg	1980	1	02/13/18 06:05	02/15/18 19:26	87-86-5	
Phenanthrene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	85-01-8	
Phenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	108-95-2	
Pyrene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	396	1	02/13/18 06:05	02/15/18 19:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	58	%	23-110	1	02/13/18 06:05	02/15/18 19:26	4165-60-0	
2-Fluorobiphenyl (S)	37	%	30-110	1	02/13/18 06:05	02/15/18 19:26	321-60-8	
Terphenyl-d14 (S)	53	%	28-110	1	02/13/18 06:05	02/15/18 19:26	1718-51-0	
Phenol-d6 (S)	61	%	22-110	1	02/13/18 06:05	02/15/18 19:26	13127-88-3	
2-Fluorophenol (S)	58	%	13-110	1	02/13/18 06:05	02/15/18 19:26	367-12-4	
2,4,6-Tribromophenol (S)	76	%	27-110	1	02/13/18 06:05	02/15/18 19:26	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2740	25		02/12/18 11:29	67-64-1	
Benzene	ND	ug/kg	137	25		02/12/18 11:29	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-11 **Lab ID: 92372721007** Collected: 02/07/18 15:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	137	25		02/12/18 11:29	108-86-1	
Bromochloromethane	ND	ug/kg	137	25		02/12/18 11:29	74-97-5	
Bromodichloromethane	ND	ug/kg	137	25		02/12/18 11:29	75-27-4	
Bromoform	ND	ug/kg	137	25		02/12/18 11:29	75-25-2	
Bromomethane	ND	ug/kg	274	25		02/12/18 11:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2740	25		02/12/18 11:29	78-93-3	
n-Butylbenzene	ND	ug/kg	137	25		02/12/18 11:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	137	25		02/12/18 11:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	137	25		02/12/18 11:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	137	25		02/12/18 11:29	56-23-5	
Chlorobenzene	ND	ug/kg	137	25		02/12/18 11:29	108-90-7	
Chloroethane	ND	ug/kg	274	25		02/12/18 11:29	75-00-3	
Chloroform	ND	ug/kg	137	25		02/12/18 11:29	67-66-3	
Chloromethane	ND	ug/kg	274	25		02/12/18 11:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	137	25		02/12/18 11:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	137	25		02/12/18 11:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	137	25		02/12/18 11:29	96-12-8	
Dibromochloromethane	ND	ug/kg	137	25		02/12/18 11:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	137	25		02/12/18 11:29	106-93-4	
Dibromomethane	ND	ug/kg	137	25		02/12/18 11:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	137	25		02/12/18 11:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	137	25		02/12/18 11:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	137	25		02/12/18 11:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	274	25		02/12/18 11:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	137	25		02/12/18 11:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	137	25		02/12/18 11:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	137	25		02/12/18 11:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	137	25		02/12/18 11:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	137	25		02/12/18 11:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	137	25		02/12/18 11:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	137	25		02/12/18 11:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	137	25		02/12/18 11:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	137	25		02/12/18 11:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	137	25		02/12/18 11:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	137	25		02/12/18 11:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	137	25		02/12/18 11:29	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	4110	25		02/12/18 11:29	123-91-1	
Ethylbenzene	ND	ug/kg	137	25		02/12/18 11:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	137	25		02/12/18 11:29	87-68-3	
2-Hexanone	ND	ug/kg	1370	25		02/12/18 11:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	137	25		02/12/18 11:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	137	25		02/12/18 11:29	99-87-6	
Methylene Chloride	ND	ug/kg	549	25		02/12/18 11:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1370	25		02/12/18 11:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	137	25		02/12/18 11:29	1634-04-4	
Naphthalene	ND	ug/kg	137	25		02/12/18 11:29	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-11 **Lab ID: 92372721007** Collected: 02/07/18 15:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	137	25		02/12/18 11:29	103-65-1	
Styrene	ND	ug/kg	137	25		02/12/18 11:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	137	25		02/12/18 11:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	137	25		02/12/18 11:29	79-34-5	
Tetrachloroethene	ND	ug/kg	137	25		02/12/18 11:29	127-18-4	
Toluene	**300**	ug/kg	137	25		02/12/18 11:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	137	25		02/12/18 11:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	137	25		02/12/18 11:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	137	25		02/12/18 11:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	137	25		02/12/18 11:29	79-00-5	
Trichloroethene	ND	ug/kg	137	25		02/12/18 11:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	137	25		02/12/18 11:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	137	25		02/12/18 11:29	96-18-4	
1,2,4-Trimethylbenzene	**172**	ug/kg	137	25		02/12/18 11:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	137	25		02/12/18 11:29	108-67-8	
Vinyl acetate	ND	ug/kg	1370	25		02/12/18 11:29	108-05-4	
Vinyl chloride	ND	ug/kg	274	25		02/12/18 11:29	75-01-4	
Xylene (Total)	**1240**	ug/kg	274	25		02/12/18 11:29	1330-20-7	
m&p-Xylene	**1240**	ug/kg	274	25		02/12/18 11:29	179601-23-1	
o-Xylene	ND	ug/kg	137	25		02/12/18 11:29	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	25		02/12/18 11:29	2037-26-5	D3
4-Bromofluorobenzene (S)	107	%	70-130	25		02/12/18 11:29	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	25		02/12/18 11:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.4**	%	0.10	1		02/13/18 11:29		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-12 **Lab ID: 92372721008** Collected: 02/07/18 15:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.0	1	02/16/18 01:45	02/18/18 08:03	7440-38-2	
Barium	**70.7**	mg/kg	0.50	1	02/16/18 01:45	02/18/18 08:03	7440-39-3	
Cadmium	ND	mg/kg	0.10	1	02/16/18 01:45	02/18/18 08:03	7440-43-9	
Chromium	**17.9**	mg/kg	0.50	1	02/16/18 01:45	02/18/18 08:03	7440-47-3	
Lead	**16.2**	mg/kg	0.50	1	02/16/18 01:45	02/18/18 08:03	7439-92-1	
Selenium	**2.6**	mg/kg	1.0	1	02/16/18 01:45	02/18/18 08:03	7782-49-2	
Silver	ND	mg/kg	0.50	1	02/16/18 01:45	02/18/18 08:03	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.039**	mg/kg	0.0042	1	02/16/18 14:00	02/16/18 18:42	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	83-32-9	
Acenaphthylene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	208-96-8	
Aniline	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	62-53-3	
Anthracene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	120-12-7	
Benzo(a)anthracene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	56-55-3	
Benzo(a)pyrene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	207-08-9	
Benzoic Acid	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	65-85-0	
Benzyl alcohol	ND	ug/kg	846	1	02/13/18 10:00	02/16/18 19:40	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	101-55-3	
Butylbenzylphthalate	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	846	1	02/13/18 10:00	02/16/18 19:40	59-50-7	
4-Chloroaniline	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	111-44-4	
2-Chloronaphthalene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	91-58-7	
2-Chlorophenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	7005-72-3	
Chrysene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	53-70-3	
Dibenzofuran	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	120-83-2	
Diethylphthalate	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	105-67-9	
Dimethylphthalate	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	131-11-3	
Di-n-butylphthalate	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	846	1	02/13/18 10:00	02/16/18 19:40	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-12 **Lab ID: 92372721008** Collected: 02/07/18 15:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	606-20-2	
Di-n-octylphthalate	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	117-81-7	
Fluoranthene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	206-44-0	
Fluorene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	87-68-3	
Hexachlorobenzene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	77-47-4	
Hexachloroethane	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	193-39-5	
Isophorone	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	78-59-1	
1-Methylnaphthalene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	90-12-0	
2-Methylnaphthalene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	15831-10-4	
Naphthalene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	91-20-3	
2-Nitroaniline	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	88-74-4	
3-Nitroaniline	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	99-09-2	
4-Nitroaniline	ND	ug/kg	846	1	02/13/18 10:00	02/16/18 19:40	100-01-6	
Nitrobenzene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	98-95-3	
2-Nitrophenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	88-75-5	
4-Nitrophenol	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	108-60-1	
Pentachlorophenol	ND	ug/kg	2120	1	02/13/18 10:00	02/16/18 19:40	87-86-5	
Phenanthrene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	85-01-8	
Phenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	108-95-2	
Pyrene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	423	1	02/13/18 10:00	02/16/18 19:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62	%	23-110	1	02/13/18 10:00	02/16/18 19:40	4165-60-0	
2-Fluorobiphenyl (S)	42	%	30-110	1	02/13/18 10:00	02/16/18 19:40	321-60-8	
Terphenyl-d14 (S)	61	%	28-110	1	02/13/18 10:00	02/16/18 19:40	1718-51-0	
Phenol-d6 (S)	55	%	22-110	1	02/13/18 10:00	02/16/18 19:40	13127-88-3	
2-Fluorophenol (S)	55	%	13-110	1	02/13/18 10:00	02/16/18 19:40	367-12-4	
2,4,6-Tribromophenol (S)	67	%	27-110	1	02/13/18 10:00	02/16/18 19:40	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	98.7	1		02/12/18 11:49	67-64-1	
Benzene	ND	ug/kg	4.9	1		02/12/18 11:49	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-12 **Lab ID: 92372721008** Collected: 02/07/18 15:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		02/12/18 11:49	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		02/12/18 11:49	75-27-4	
Bromoform	ND	ug/kg	4.9	1		02/12/18 11:49	75-25-2	
Bromomethane	ND	ug/kg	9.9	1		02/12/18 11:49	74-83-9	
2-Butanone (MEK)	ND	ug/kg	98.7	1		02/12/18 11:49	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		02/12/18 11:49	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	108-90-7	
Chloroethane	ND	ug/kg	9.9	1		02/12/18 11:49	75-00-3	
Chloroform	ND	ug/kg	4.9	1		02/12/18 11:49	67-66-3	
Chloromethane	ND	ug/kg	9.9	1		02/12/18 11:49	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		02/12/18 11:49	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		02/12/18 11:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		02/12/18 11:49	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		02/12/18 11:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		02/12/18 11:49	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		02/12/18 11:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.9	1		02/12/18 11:49	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		02/12/18 11:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		02/12/18 11:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		02/12/18 11:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		02/12/18 11:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		02/12/18 11:49	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		02/12/18 11:49	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		02/12/18 11:49	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		02/12/18 11:49	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		02/12/18 11:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		02/12/18 11:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		02/12/18 11:49	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		02/12/18 11:49	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	148	1		02/12/18 11:49	123-91-1	
Ethylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		02/12/18 11:49	87-68-3	
2-Hexanone	ND	ug/kg	49.3	1		02/12/18 11:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		02/12/18 11:49	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		02/12/18 11:49	99-87-6	
Methylene Chloride	ND	ug/kg	19.7	1		02/12/18 11:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.3	1		02/12/18 11:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		02/12/18 11:49	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		02/12/18 11:49	91-20-3	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-12 **Lab ID: 92372721008** Collected: 02/07/18 15:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	103-65-1	
Styrene	ND	ug/kg	4.9	1		02/12/18 11:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		02/12/18 11:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		02/12/18 11:49	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		02/12/18 11:49	127-18-4	
Toluene	ND	ug/kg	4.9	1		02/12/18 11:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		02/12/18 11:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		02/12/18 11:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		02/12/18 11:49	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		02/12/18 11:49	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		02/12/18 11:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		02/12/18 11:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		02/12/18 11:49	108-67-8	
Vinyl acetate	ND	ug/kg	49.3	1		02/12/18 11:49	108-05-4	
Vinyl chloride	ND	ug/kg	9.9	1		02/12/18 11:49	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		02/12/18 11:49	1330-20-7	
m&p-Xylene	ND	ug/kg	9.9	1		02/12/18 11:49	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		02/12/18 11:49	95-47-6	
Surrogates								
Toluene-d8 (S)	104	%	70-130	1		02/12/18 11:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		02/12/18 11:49	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-132	1		02/12/18 11:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.2**	%	0.10	1		02/13/18 11:29		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-13 **Lab ID: 92372721009** Collected: 02/07/18 16:00 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.0	1	02/16/18 01:45	02/18/18 08:06	7440-38-2	
Barium	**48.3**	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:06	7440-39-3	
Cadmium	ND	mg/kg	0.10	1	02/16/18 01:45	02/18/18 08:06	7440-43-9	
Chromium	**18.1**	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:06	7440-47-3	
Lead	**12.2**	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:06	7439-92-1	
Selenium	**2.6**	mg/kg	1.0	1	02/16/18 01:45	02/18/18 08:06	7782-49-2	
Silver	ND	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:06	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.034**	mg/kg	0.0046	1	02/16/18 14:00	02/16/18 18:45	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	83-32-9	
Acenaphthylene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	208-96-8	
Aniline	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	62-53-3	
Anthracene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	120-12-7	
Benzo(a)anthracene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	56-55-3	
Benzo(a)pyrene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	207-08-9	
Benzoic Acid	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	65-85-0	
Benzyl alcohol	ND	ug/kg	858	1	02/13/18 10:00	02/16/18 20:10	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	101-55-3	
Butylbenzylphthalate	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	858	1	02/13/18 10:00	02/16/18 20:10	59-50-7	
4-Chloroaniline	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	111-44-4	
2-Chloronaphthalene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	91-58-7	
2-Chlorophenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	7005-72-3	
Chrysene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	53-70-3	
Dibenzofuran	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	120-83-2	
Diethylphthalate	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	105-67-9	
Dimethylphthalate	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	131-11-3	
Di-n-butylphthalate	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	858	1	02/13/18 10:00	02/16/18 20:10	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-13 **Lab ID: 92372721009** Collected: 02/07/18 16:00 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	606-20-2	
Di-n-octylphthalate	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	117-81-7	
Fluoranthene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	206-44-0	
Fluorene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	87-68-3	
Hexachlorobenzene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	77-47-4	
Hexachloroethane	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	193-39-5	
Isophorone	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	78-59-1	
1-Methylnaphthalene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	90-12-0	
2-Methylnaphthalene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	15831-10-4	
Naphthalene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	91-20-3	
2-Nitroaniline	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	88-74-4	
3-Nitroaniline	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	99-09-2	
4-Nitroaniline	ND	ug/kg	858	1	02/13/18 10:00	02/16/18 20:10	100-01-6	
Nitrobenzene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	98-95-3	
2-Nitrophenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	88-75-5	
4-Nitrophenol	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	108-60-1	
Pentachlorophenol	ND	ug/kg	2150	1	02/13/18 10:00	02/16/18 20:10	87-86-5	
Phenanthrene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	85-01-8	
Phenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	108-95-2	
Pyrene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	429	1	02/13/18 10:00	02/16/18 20:10	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	59	%	23-110	1	02/13/18 10:00	02/16/18 20:10	4165-60-0	
2-Fluorobiphenyl (S)	51	%	30-110	1	02/13/18 10:00	02/16/18 20:10	321-60-8	
Terphenyl-d14 (S)	49	%	28-110	1	02/13/18 10:00	02/16/18 20:10	1718-51-0	
Phenol-d6 (S)	53	%	22-110	1	02/13/18 10:00	02/16/18 20:10	13127-88-3	
2-Fluorophenol (S)	56	%	13-110	1	02/13/18 10:00	02/16/18 20:10	367-12-4	
2,4,6-Tribromophenol (S)	60	%	27-110	1	02/13/18 10:00	02/16/18 20:10	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	91.4	1		02/12/18 12:10	67-64-1	
Benzene	ND	ug/kg	4.6	1		02/12/18 12:10	71-43-2	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-13 **Lab ID: 92372721009** Collected: 02/07/18 16:00 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		02/12/18 12:10	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		02/12/18 12:10	75-27-4	
Bromoform	ND	ug/kg	4.6	1		02/12/18 12:10	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		02/12/18 12:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.4	1		02/12/18 12:10	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		02/12/18 12:10	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		02/12/18 12:10	75-00-3	
Chloroform	ND	ug/kg	4.6	1		02/12/18 12:10	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		02/12/18 12:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		02/12/18 12:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		02/12/18 12:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		02/12/18 12:10	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		02/12/18 12:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		02/12/18 12:10	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		02/12/18 12:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		02/12/18 12:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		02/12/18 12:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		02/12/18 12:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 12:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 12:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 12:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 12:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 12:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 12:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 12:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 12:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 12:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		02/12/18 12:10	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	137	1		02/12/18 12:10	123-91-1	
Ethylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		02/12/18 12:10	87-68-3	
2-Hexanone	ND	ug/kg	45.7	1		02/12/18 12:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		02/12/18 12:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		02/12/18 12:10	99-87-6	
Methylene Chloride	ND	ug/kg	18.3	1		02/12/18 12:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.7	1		02/12/18 12:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		02/12/18 12:10	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		02/12/18 12:10	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-13 **Lab ID: 92372721009** Collected: 02/07/18 16:00 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	103-65-1	
Styrene	ND	ug/kg	4.6	1		02/12/18 12:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		02/12/18 12:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		02/12/18 12:10	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		02/12/18 12:10	127-18-4	
Toluene	ND	ug/kg	4.6	1		02/12/18 12:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		02/12/18 12:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		02/12/18 12:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		02/12/18 12:10	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		02/12/18 12:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		02/12/18 12:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		02/12/18 12:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		02/12/18 12:10	108-67-8	
Vinyl acetate	ND	ug/kg	45.7	1		02/12/18 12:10	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		02/12/18 12:10	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		02/12/18 12:10	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		02/12/18 12:10	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		02/12/18 12:10	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		02/12/18 12:10	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	1		02/12/18 12:10	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-132	1		02/12/18 12:10	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.1**	%	0.10	1		02/13/18 11:29		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-14 **Lab ID: 92372721010** Collected: 02/07/18 16:25 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**3.1**	mg/kg	1.0	1	02/16/18 01:45	02/18/18 08:10	7440-38-2	
Barium	**36.8**	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:10	7440-39-3	
Cadmium	ND	mg/kg	0.10	1	02/16/18 01:45	02/18/18 08:10	7440-43-9	
Chromium	**22.1**	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:10	7440-47-3	
Lead	**11.2**	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:10	7439-92-1	
Selenium	**4.6**	mg/kg	1.0	1	02/16/18 01:45	02/18/18 08:10	7782-49-2	
Silver	ND	mg/kg	0.52	1	02/16/18 01:45	02/18/18 08:10	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.047**	mg/kg	0.0038	1	02/16/18 14:00	02/16/18 18:47	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	83-32-9	
Acenaphthylene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	208-96-8	
Aniline	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	62-53-3	
Anthracene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	120-12-7	
Benzo(a)anthracene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	207-08-9	
Benzoic Acid	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	65-85-0	
Benzyl alcohol	ND	ug/kg	891	1	02/13/18 10:00	02/16/18 14:49	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	101-55-3	
Butylbenzylphthalate	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	891	1	02/13/18 10:00	02/16/18 14:49	59-50-7	
4-Chloroaniline	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	111-44-4	
2-Chloronaphthalene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	91-58-7	
2-Chlorophenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	7005-72-3	
Chrysene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	53-70-3	
Dibenzofuran	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	120-83-2	
Diethylphthalate	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	105-67-9	
Dimethylphthalate	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	131-11-3	
Di-n-butylphthalate	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	891	1	02/13/18 10:00	02/16/18 14:49	534-52-1	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-14 **Lab ID: 92372721010** Collected: 02/07/18 16:25 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	606-20-2	
Di-n-octylphthalate	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	117-81-7	
Fluoranthene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	206-44-0	
Fluorene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	87-68-3	
Hexachlorobenzene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	77-47-4	
Hexachloroethane	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	193-39-5	
Isophorone	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	78-59-1	
1-Methylnaphthalene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	90-12-0	
2-Methylnaphthalene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	15831-10-4	
Naphthalene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	91-20-3	
2-Nitroaniline	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	88-74-4	
3-Nitroaniline	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	99-09-2	
4-Nitroaniline	ND	ug/kg	891	1	02/13/18 10:00	02/16/18 14:49	100-01-6	
Nitrobenzene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	98-95-3	
2-Nitrophenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	88-75-5	
4-Nitrophenol	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	108-60-1	
Pentachlorophenol	ND	ug/kg	2230	1	02/13/18 10:00	02/16/18 14:49	87-86-5	
Phenanthrene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	85-01-8	
Phenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	108-95-2	
Pyrene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	446	1	02/13/18 10:00	02/16/18 14:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	61	%	23-110	1	02/13/18 10:00	02/16/18 14:49	4165-60-0	
2-Fluorobiphenyl (S)	51	%	30-110	1	02/13/18 10:00	02/16/18 14:49	321-60-8	
Terphenyl-d14 (S)	55	%	28-110	1	02/13/18 10:00	02/16/18 14:49	1718-51-0	
Phenol-d6 (S)	52	%	22-110	1	02/13/18 10:00	02/16/18 14:49	13127-88-3	
2-Fluorophenol (S)	55	%	13-110	1	02/13/18 10:00	02/16/18 14:49	367-12-4	
2,4,6-Tribromophenol (S)	33	%	27-110	1	02/13/18 10:00	02/16/18 14:49	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	97.6	1		02/12/18 12:30	67-64-1	
Benzene	ND	ug/kg	4.9	1		02/12/18 12:30	71-43-2	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-14 **Lab ID: 92372721010** Collected: 02/07/18 16:25 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		02/12/18 12:30	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		02/12/18 12:30	75-27-4	
Bromoform	ND	ug/kg	4.9	1		02/12/18 12:30	75-25-2	
Bromomethane	ND	ug/kg	9.8	1		02/12/18 12:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.6	1		02/12/18 12:30	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		02/12/18 12:30	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	108-90-7	
Chloroethane	ND	ug/kg	9.8	1		02/12/18 12:30	75-00-3	
Chloroform	ND	ug/kg	4.9	1		02/12/18 12:30	67-66-3	
Chloromethane	ND	ug/kg	9.8	1		02/12/18 12:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		02/12/18 12:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		02/12/18 12:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		02/12/18 12:30	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		02/12/18 12:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		02/12/18 12:30	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		02/12/18 12:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.8	1		02/12/18 12:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		02/12/18 12:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		02/12/18 12:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		02/12/18 12:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		02/12/18 12:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		02/12/18 12:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		02/12/18 12:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		02/12/18 12:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		02/12/18 12:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		02/12/18 12:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		02/12/18 12:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		02/12/18 12:30	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		02/12/18 12:30	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	146	1		02/12/18 12:30	123-91-1	
Ethylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		02/12/18 12:30	87-68-3	
2-Hexanone	ND	ug/kg	48.8	1		02/12/18 12:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		02/12/18 12:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		02/12/18 12:30	99-87-6	
Methylene Chloride	ND	ug/kg	19.5	1		02/12/18 12:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.8	1		02/12/18 12:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		02/12/18 12:30	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		02/12/18 12:30	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-14 **Lab ID: 92372721010** Collected: 02/07/18 16:25 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	103-65-1	
Styrene	ND	ug/kg	4.9	1		02/12/18 12:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		02/12/18 12:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		02/12/18 12:30	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		02/12/18 12:30	127-18-4	
Toluene	ND	ug/kg	4.9	1		02/12/18 12:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		02/12/18 12:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		02/12/18 12:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		02/12/18 12:30	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		02/12/18 12:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		02/12/18 12:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		02/12/18 12:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		02/12/18 12:30	108-67-8	
Vinyl acetate	ND	ug/kg	48.8	1		02/12/18 12:30	108-05-4	
Vinyl chloride	ND	ug/kg	9.8	1		02/12/18 12:30	75-01-4	
Xylene (Total)	ND	ug/kg	9.8	1		02/12/18 12:30	1330-20-7	
m&p-Xylene	ND	ug/kg	9.8	1		02/12/18 12:30	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		02/12/18 12:30	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		02/12/18 12:30	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130	1		02/12/18 12:30	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		02/12/18 12:30	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.2**	%	0.10	1		02/13/18 11:29		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-15 **Lab ID: 92372721011** Collected: 02/08/18 11:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.2	1	02/16/18 01:45	02/18/18 08:13	7440-38-2	
Barium	**145**	mg/kg	0.59	1	02/16/18 01:45	02/18/18 08:13	7440-39-3	
Cadmium	ND	mg/kg	0.12	1	02/16/18 01:45	02/18/18 08:13	7440-43-9	
Chromium	**18.2**	mg/kg	0.59	1	02/16/18 01:45	02/18/18 08:13	7440-47-3	
Lead	**9.5**	mg/kg	0.59	1	02/16/18 01:45	02/18/18 08:13	7439-92-1	
Selenium	**2.8**	mg/kg	1.2	1	02/16/18 01:45	02/18/18 08:13	7782-49-2	
Silver	ND	mg/kg	0.59	1	02/16/18 01:45	02/18/18 08:13	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.020**	mg/kg	0.0067	1	02/16/18 14:00	02/16/18 18:49	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	83-32-9	
Acenaphthylene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	208-96-8	
Aniline	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	62-53-3	
Anthracene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	120-12-7	
Benzo(a)anthracene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	56-55-3	
Benzo(a)pyrene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	207-08-9	
Benzoic Acid	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	65-85-0	
Benzyl alcohol	ND	ug/kg	927	1	02/13/18 10:00	02/16/18 15:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	101-55-3	
Butylbenzylphthalate	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	927	1	02/13/18 10:00	02/16/18 15:19	59-50-7	
4-Chloroaniline	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	111-44-4	
2-Chloronaphthalene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	91-58-7	
2-Chlorophenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	7005-72-3	
Chrysene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	53-70-3	
Dibenzofuran	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	120-83-2	
Diethylphthalate	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	105-67-9	
Dimethylphthalate	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	131-11-3	
Di-n-butylphthalate	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	927	1	02/13/18 10:00	02/16/18 15:19	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-15 **Lab ID: 92372721011** Collected: 02/08/18 11:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	606-20-2	
Di-n-octylphthalate	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	117-81-7	
Fluoranthene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	206-44-0	
Fluorene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	87-68-3	
Hexachlorobenzene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	77-47-4	
Hexachloroethane	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	193-39-5	
Isophorone	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	78-59-1	
1-Methylnaphthalene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	90-12-0	
2-Methylnaphthalene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	15831-10-4	
Naphthalene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	91-20-3	
2-Nitroaniline	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	88-74-4	
3-Nitroaniline	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	99-09-2	
4-Nitroaniline	ND	ug/kg	927	1	02/13/18 10:00	02/16/18 15:19	100-01-6	
Nitrobenzene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	98-95-3	
2-Nitrophenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	88-75-5	
4-Nitrophenol	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	108-60-1	
Pentachlorophenol	ND	ug/kg	2320	1	02/13/18 10:00	02/16/18 15:19	87-86-5	
Phenanthrene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	85-01-8	
Phenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	108-95-2	
Pyrene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	464	1	02/13/18 10:00	02/16/18 15:19	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	57	%	23-110	1	02/13/18 10:00	02/16/18 15:19	4165-60-0	
2-Fluorobiphenyl (S)	40	%	30-110	1	02/13/18 10:00	02/16/18 15:19	321-60-8	
Terphenyl-d14 (S)	38	%	28-110	1	02/13/18 10:00	02/16/18 15:19	1718-51-0	
Phenol-d6 (S)	53	%	22-110	1	02/13/18 10:00	02/16/18 15:19	13127-88-3	
2-Fluorophenol (S)	51	%	13-110	1	02/13/18 10:00	02/16/18 15:19	367-12-4	
2,4,6-Tribromophenol (S)	29	%	27-110	1	02/13/18 10:00	02/16/18 15:19	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	107	1		02/12/18 12:51	67-64-1	
Benzene	ND	ug/kg	5.3	1		02/12/18 12:51	71-43-2	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-15 **Lab ID: 92372721011** Collected: 02/08/18 11:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		02/12/18 12:51	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		02/12/18 12:51	75-27-4	
Bromoform	ND	ug/kg	5.3	1		02/12/18 12:51	75-25-2	
Bromomethane	ND	ug/kg	10.7	1		02/12/18 12:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	107	1		02/12/18 12:51	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1		02/12/18 12:51	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	108-90-7	
Chloroethane	ND	ug/kg	10.7	1		02/12/18 12:51	75-00-3	
Chloroform	ND	ug/kg	5.3	1		02/12/18 12:51	67-66-3	
Chloromethane	ND	ug/kg	10.7	1		02/12/18 12:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		02/12/18 12:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		02/12/18 12:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		02/12/18 12:51	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		02/12/18 12:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		02/12/18 12:51	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		02/12/18 12:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.7	1		02/12/18 12:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		02/12/18 12:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		02/12/18 12:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		02/12/18 12:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/12/18 12:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/12/18 12:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		02/12/18 12:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		02/12/18 12:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		02/12/18 12:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		02/12/18 12:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/12/18 12:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/12/18 12:51	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1		02/12/18 12:51	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	160	1		02/12/18 12:51	123-91-1	
Ethylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		02/12/18 12:51	87-68-3	
2-Hexanone	ND	ug/kg	53.4	1		02/12/18 12:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		02/12/18 12:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		02/12/18 12:51	99-87-6	
Methylene Chloride	ND	ug/kg	21.4	1		02/12/18 12:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.4	1		02/12/18 12:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		02/12/18 12:51	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		02/12/18 12:51	91-20-3	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-15 **Lab ID: 92372721011** Collected: 02/08/18 11:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	103-65-1	
Styrene	ND	ug/kg	5.3	1		02/12/18 12:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/12/18 12:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/12/18 12:51	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		02/12/18 12:51	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/12/18 12:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		02/12/18 12:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/12/18 12:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		02/12/18 12:51	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		02/12/18 12:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		02/12/18 12:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		02/12/18 12:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		02/12/18 12:51	108-67-8	
Vinyl acetate	ND	ug/kg	53.4	1		02/12/18 12:51	108-05-4	
Vinyl chloride	ND	ug/kg	10.7	1		02/12/18 12:51	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		02/12/18 12:51	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1		02/12/18 12:51	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1		02/12/18 12:51	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		02/12/18 12:51	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/12/18 12:51	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	70-132	1		02/12/18 12:51	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**29.3**	%	0.10	1		02/13/18 11:29		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-16 **Lab ID: 92372721012** Collected: 02/08/18 12:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.91	1	02/16/18 01:45	02/18/18 08:16	7440-38-2	
Barium	**50.6**	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:16	7440-39-3	
Cadmium	ND	mg/kg	0.091	1	02/16/18 01:45	02/18/18 08:16	7440-43-9	
Chromium	**17.0**	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:16	7440-47-3	
Lead	**15.8**	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:16	7439-92-1	
Selenium	**3.0**	mg/kg	0.91	1	02/16/18 01:45	02/18/18 08:16	7782-49-2	
Silver	ND	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:16	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.034**	mg/kg	0.0039	1	02/16/18 14:00	02/16/18 18:52	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	83-32-9	
Acenaphthylene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	208-96-8	
Aniline	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	62-53-3	
Anthracene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	120-12-7	
Benzo(a)anthracene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	207-08-9	
Benzoic Acid	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	65-85-0	
Benzyl alcohol	ND	ug/kg	857	1	02/13/18 10:00	02/16/18 15:49	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	101-55-3	
Butylbenzylphthalate	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	857	1	02/13/18 10:00	02/16/18 15:49	59-50-7	
4-Chloroaniline	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	111-44-4	
2-Chloronaphthalene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	91-58-7	
2-Chlorophenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	7005-72-3	
Chrysene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	53-70-3	
Dibenzofuran	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	120-83-2	
Diethylphthalate	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	105-67-9	
Dimethylphthalate	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	131-11-3	
Di-n-butylphthalate	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	857	1	02/13/18 10:00	02/16/18 15:49	534-52-1	

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2225 Riverside Dr.
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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-16 **Lab ID: 92372721012** Collected: 02/08/18 12:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	606-20-2	
Di-n-octylphthalate	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	117-81-7	
Fluoranthene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	206-44-0	
Fluorene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	87-68-3	
Hexachlorobenzene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	77-47-4	
Hexachloroethane	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	193-39-5	
Isophorone	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	78-59-1	
1-Methylnaphthalene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	90-12-0	
2-Methylnaphthalene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	15831-10-4	
Naphthalene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	91-20-3	
2-Nitroaniline	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	88-74-4	
3-Nitroaniline	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	99-09-2	
4-Nitroaniline	ND	ug/kg	857	1	02/13/18 10:00	02/16/18 15:49	100-01-6	
Nitrobenzene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	98-95-3	
2-Nitrophenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	88-75-5	
4-Nitrophenol	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	108-60-1	
Pentachlorophenol	ND	ug/kg	2140	1	02/13/18 10:00	02/16/18 15:49	87-86-5	
Phenanthrene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	85-01-8	
Phenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	108-95-2	
Pyrene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	428	1	02/13/18 10:00	02/16/18 15:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	23-110	1	02/13/18 10:00	02/16/18 15:49	4165-60-0	
2-Fluorobiphenyl (S)	50	%	30-110	1	02/13/18 10:00	02/16/18 15:49	321-60-8	
Terphenyl-d14 (S)	67	%	28-110	1	02/13/18 10:00	02/16/18 15:49	1718-51-0	
Phenol-d6 (S)	61	%	22-110	1	02/13/18 10:00	02/16/18 15:49	13127-88-3	
2-Fluorophenol (S)	61	%	13-110	1	02/13/18 10:00	02/16/18 15:49	367-12-4	
2,4,6-Tribromophenol (S)	46	%	27-110	1	02/13/18 10:00	02/16/18 15:49	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	102	1		02/12/18 13:11	67-64-1	
Benzene	ND	ug/kg	5.1	1		02/12/18 13:11	71-43-2	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-16 **Lab ID: 92372721012** Collected: 02/08/18 12:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		02/12/18 13:11	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		02/12/18 13:11	75-27-4	
Bromoform	ND	ug/kg	5.1	1		02/12/18 13:11	75-25-2	
Bromomethane	ND	ug/kg	10.2	1		02/12/18 13:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	102	1		02/12/18 13:11	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		02/12/18 13:11	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	108-90-7	
Chloroethane	ND	ug/kg	10.2	1		02/12/18 13:11	75-00-3	
Chloroform	ND	ug/kg	5.1	1		02/12/18 13:11	67-66-3	
Chloromethane	ND	ug/kg	10.2	1		02/12/18 13:11	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		02/12/18 13:11	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		02/12/18 13:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		02/12/18 13:11	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		02/12/18 13:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		02/12/18 13:11	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		02/12/18 13:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.2	1		02/12/18 13:11	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		02/12/18 13:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		02/12/18 13:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		02/12/18 13:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		02/12/18 13:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		02/12/18 13:11	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		02/12/18 13:11	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		02/12/18 13:11	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		02/12/18 13:11	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		02/12/18 13:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		02/12/18 13:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		02/12/18 13:11	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		02/12/18 13:11	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	153	1		02/12/18 13:11	123-91-1	
Ethylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		02/12/18 13:11	87-68-3	
2-Hexanone	ND	ug/kg	50.9	1		02/12/18 13:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		02/12/18 13:11	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		02/12/18 13:11	99-87-6	
Methylene Chloride	ND	ug/kg	20.4	1		02/12/18 13:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.9	1		02/12/18 13:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		02/12/18 13:11	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		02/12/18 13:11	91-20-3	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-16 **Lab ID: 92372721012** Collected: 02/08/18 12:30 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	103-65-1	
Styrene	ND	ug/kg	5.1	1		02/12/18 13:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		02/12/18 13:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		02/12/18 13:11	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		02/12/18 13:11	127-18-4	
Toluene	ND	ug/kg	5.1	1		02/12/18 13:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		02/12/18 13:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		02/12/18 13:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		02/12/18 13:11	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		02/12/18 13:11	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		02/12/18 13:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		02/12/18 13:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		02/12/18 13:11	108-67-8	
Vinyl acetate	ND	ug/kg	50.9	1		02/12/18 13:11	108-05-4	
Vinyl chloride	ND	ug/kg	10.2	1		02/12/18 13:11	75-01-4	
Xylene (Total)	ND	ug/kg	10.2	1		02/12/18 13:11	1330-20-7	
m&p-Xylene	ND	ug/kg	10.2	1		02/12/18 13:11	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		02/12/18 13:11	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		02/12/18 13:11	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		02/12/18 13:11	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132	1		02/12/18 13:11	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.0**	%	0.10	1		02/13/18 11:29		

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17 **Lab ID: 92372721013** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**0.98**	mg/kg	0.93	1	02/16/18 01:45	02/18/18 08:25	7440-38-2	
Barium	**45.9**	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:25	7440-39-3	
Cadmium	ND	mg/kg	0.093	1	02/16/18 01:45	02/18/18 08:25	7440-43-9	
Chromium	**15.3**	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:25	7440-47-3	
Lead	**7.0**	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:25	7439-92-1	
Selenium	**0.93**	mg/kg	0.93	1	02/16/18 01:45	02/18/18 08:25	7782-49-2	
Silver	ND	mg/kg	0.46	1	02/16/18 01:45	02/18/18 08:25	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0040	1	02/16/18 14:00	02/16/18 18:54	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	83-32-9	
Acenaphthylene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	208-96-8	
Aniline	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	62-53-3	
Anthracene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	207-08-9	
Benzoic Acid	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	65-85-0	
Benzyl alcohol	ND	ug/kg	791	1	02/13/18 10:00	02/16/18 16:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	101-55-3	
Butylbenzylphthalate	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	791	1	02/13/18 10:00	02/16/18 16:18	59-50-7	
4-Chloroaniline	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	111-44-4	
2-Chloronaphthalene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	91-58-7	
2-Chlorophenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	7005-72-3	
Chrysene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	53-70-3	
Dibenzofuran	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	120-83-2	
Diethylphthalate	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	105-67-9	
Dimethylphthalate	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	131-11-3	
Di-n-butylphthalate	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	791	1	02/13/18 10:00	02/16/18 16:18	534-52-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17 **Lab ID: 92372721013** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	117-81-7	
Fluoranthene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	206-44-0	
Fluorene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	77-47-4	
Hexachloroethane	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	193-39-5	
Isophorone	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	15831-10-4	
Naphthalene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	91-20-3	
2-Nitroaniline	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	88-74-4	
3-Nitroaniline	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	99-09-2	
4-Nitroaniline	ND	ug/kg	791	1	02/13/18 10:00	02/16/18 16:18	100-01-6	
Nitrobenzene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	98-95-3	
2-Nitrophenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	88-75-5	
4-Nitrophenol	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	108-60-1	
Pentachlorophenol	ND	ug/kg	1980	1	02/13/18 10:00	02/16/18 16:18	87-86-5	
Phenanthrene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	85-01-8	
Phenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	108-95-2	
Pyrene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	1	02/13/18 10:00	02/16/18 16:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%	23-110	1	02/13/18 10:00	02/16/18 16:18	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-110	1	02/13/18 10:00	02/16/18 16:18	321-60-8	
Terphenyl-d14 (S)	64	%	28-110	1	02/13/18 10:00	02/16/18 16:18	1718-51-0	
Phenol-d6 (S)	59	%	22-110	1	02/13/18 10:00	02/16/18 16:18	13127-88-3	
2-Fluorophenol (S)	59	%	13-110	1	02/13/18 10:00	02/16/18 16:18	367-12-4	
2,4,6-Tribromophenol (S)	37	%	27-110	1	02/13/18 10:00	02/16/18 16:18	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	93.0	1		02/12/18 13:32	67-64-1	
Benzene	ND	ug/kg	4.6	1		02/12/18 13:32	71-43-2	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17 **Lab ID: 92372721013** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		02/12/18 13:32	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		02/12/18 13:32	75-27-4	
Bromoform	ND	ug/kg	4.6	1		02/12/18 13:32	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		02/12/18 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.0	1		02/12/18 13:32	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		02/12/18 13:32	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		02/12/18 13:32	75-00-3	
Chloroform	ND	ug/kg	4.6	1		02/12/18 13:32	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		02/12/18 13:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		02/12/18 13:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		02/12/18 13:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		02/12/18 13:32	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		02/12/18 13:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		02/12/18 13:32	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		02/12/18 13:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		02/12/18 13:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		02/12/18 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		02/12/18 13:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 13:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 13:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 13:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 13:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 13:32	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		02/12/18 13:32	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	139	1		02/12/18 13:32	123-91-1	
Ethylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		02/12/18 13:32	87-68-3	
2-Hexanone	ND	ug/kg	46.5	1		02/12/18 13:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		02/12/18 13:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		02/12/18 13:32	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		02/12/18 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.5	1		02/12/18 13:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		02/12/18 13:32	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		02/12/18 13:32	91-20-3	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17 **Lab ID: 92372721013** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	103-65-1	
Styrene	ND	ug/kg	4.6	1		02/12/18 13:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		02/12/18 13:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		02/12/18 13:32	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		02/12/18 13:32	127-18-4	
Toluene	ND	ug/kg	4.6	1		02/12/18 13:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		02/12/18 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		02/12/18 13:32	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		02/12/18 13:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		02/12/18 13:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		02/12/18 13:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		02/12/18 13:32	108-67-8	
Vinyl acetate	ND	ug/kg	46.5	1		02/12/18 13:32	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		02/12/18 13:32	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		02/12/18 13:32	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		02/12/18 13:32	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		02/12/18 13:32	95-47-6	
Surrogates								
Toluene-d8 (S)	104	%	70-130	1		02/12/18 13:32	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/12/18 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-132	1		02/12/18 13:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.0**	%	0.10	1		02/13/18 11:29		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-18 **Lab ID: 92372721014** Collected: 02/08/18 13:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	0.99	1	02/16/18 01:45	02/18/18 08:29	7440-38-2	
Barium	**37.0**	mg/kg	0.49	1	02/16/18 01:45	02/18/18 08:29	7440-39-3	
Cadmium	ND	mg/kg	0.099	1	02/16/18 01:45	02/18/18 08:29	7440-43-9	
Chromium	**8.2**	mg/kg	0.49	1	02/16/18 01:45	02/18/18 08:29	7440-47-3	
Lead	**3.8**	mg/kg	0.49	1	02/16/18 01:45	02/18/18 08:29	7439-92-1	
Selenium	ND	mg/kg	0.99	1	02/16/18 01:45	02/18/18 08:29	7782-49-2	
Silver	ND	mg/kg	0.49	1	02/16/18 01:45	02/18/18 08:29	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.0049	1	02/16/18 14:00	02/16/18 18:57	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	83-32-9	
Acenaphthylene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	208-96-8	
Aniline	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	62-53-3	
Anthracene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	207-08-9	
Benzoic Acid	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	65-85-0	
Benzyl alcohol	ND	ug/kg	730	1	02/13/18 10:00	02/16/18 16:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	101-55-3	
Butylbenzylphthalate	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	730	1	02/13/18 10:00	02/16/18 16:48	59-50-7	
4-Chloroaniline	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	111-44-4	
2-Chloronaphthalene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	91-58-7	
2-Chlorophenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	7005-72-3	
Chrysene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	53-70-3	
Dibenzofuran	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	120-83-2	
Diethylphthalate	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	105-67-9	
Dimethylphthalate	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	131-11-3	
Di-n-butylphthalate	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	730	1	02/13/18 10:00	02/16/18 16:48	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-18 **Lab ID: 92372721014** Collected: 02/08/18 13:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	606-20-2	
Di-n-octylphthalate	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	117-81-7	
Fluoranthene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	206-44-0	
Fluorene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	87-68-3	
Hexachlorobenzene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	77-47-4	
Hexachloroethane	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	193-39-5	
Isophorone	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	78-59-1	
1-Methylnaphthalene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	90-12-0	
2-Methylnaphthalene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	15831-10-4	
Naphthalene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	91-20-3	
2-Nitroaniline	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	88-74-4	
3-Nitroaniline	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	99-09-2	
4-Nitroaniline	ND	ug/kg	730	1	02/13/18 10:00	02/16/18 16:48	100-01-6	
Nitrobenzene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	98-95-3	
2-Nitrophenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	88-75-5	
4-Nitrophenol	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	108-60-1	
Pentachlorophenol	ND	ug/kg	1830	1	02/13/18 10:00	02/16/18 16:48	87-86-5	
Phenanthrene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	85-01-8	
Phenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	108-95-2	
Pyrene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	365	1	02/13/18 10:00	02/16/18 16:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%	23-110	1	02/13/18 10:00	02/16/18 16:48	4165-60-0	
2-Fluorobiphenyl (S)	54	%	30-110	1	02/13/18 10:00	02/16/18 16:48	321-60-8	
Terphenyl-d14 (S)	67	%	28-110	1	02/13/18 10:00	02/16/18 16:48	1718-51-0	
Phenol-d6 (S)	51	%	22-110	1	02/13/18 10:00	02/16/18 16:48	13127-88-3	
2-Fluorophenol (S)	49	%	13-110	1	02/13/18 10:00	02/16/18 16:48	367-12-4	
2,4,6-Tribromophenol (S)	37	%	27-110	1	02/13/18 10:00	02/16/18 16:48	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	93.0	1		02/12/18 13:52	67-64-1	
Benzene	ND	ug/kg	4.6	1		02/12/18 13:52	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-18 **Lab ID: 92372721014** Collected: 02/08/18 13:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		02/12/18 13:52	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		02/12/18 13:52	75-27-4	
Bromoform	ND	ug/kg	4.6	1		02/12/18 13:52	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		02/12/18 13:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.0	1		02/12/18 13:52	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		02/12/18 13:52	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		02/12/18 13:52	75-00-3	
Chloroform	ND	ug/kg	4.6	1		02/12/18 13:52	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		02/12/18 13:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		02/12/18 13:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		02/12/18 13:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		02/12/18 13:52	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		02/12/18 13:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		02/12/18 13:52	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		02/12/18 13:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		02/12/18 13:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		02/12/18 13:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		02/12/18 13:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 13:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 13:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		02/12/18 13:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 13:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 13:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		02/12/18 13:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 13:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 13:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		02/12/18 13:52	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		02/12/18 13:52	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	139	1		02/12/18 13:52	123-91-1	
Ethylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		02/12/18 13:52	87-68-3	
2-Hexanone	ND	ug/kg	46.5	1		02/12/18 13:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		02/12/18 13:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		02/12/18 13:52	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		02/12/18 13:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.5	1		02/12/18 13:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		02/12/18 13:52	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		02/12/18 13:52	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-18 **Lab ID: 92372721014** Collected: 02/08/18 13:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	103-65-1	
Styrene	ND	ug/kg	4.6	1		02/12/18 13:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		02/12/18 13:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		02/12/18 13:52	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		02/12/18 13:52	127-18-4	
Toluene	ND	ug/kg	4.6	1		02/12/18 13:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		02/12/18 13:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		02/12/18 13:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		02/12/18 13:52	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		02/12/18 13:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		02/12/18 13:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		02/12/18 13:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		02/12/18 13:52	108-67-8	
Vinyl acetate	ND	ug/kg	46.5	1		02/12/18 13:52	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		02/12/18 13:52	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		02/12/18 13:52	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		02/12/18 13:52	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		02/12/18 13:52	95-47-6	
Surrogates								
Toluene-d8 (S)	106	%	70-130	1		02/12/18 13:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/12/18 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132	1		02/12/18 13:52	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.6**	%	0.10	1		02/13/18 11:29		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-19 **Lab ID: 92372721015** Collected: 02/08/18 13:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**8.0**	mg/kg	5.8	5	02/16/18 01:45	02/22/18 03:08	7440-38-2	
Barium	**271**	mg/kg	2.9	5	02/16/18 01:45	02/22/18 03:08	7440-39-3	
Cadmium	ND	mg/kg	0.58	5	02/16/18 01:45	02/22/18 03:08	7440-43-9	D3
Chromium	**319**	mg/kg	2.9	5	02/16/18 01:45	02/22/18 03:08	7440-47-3	
Lead	**18.0**	mg/kg	2.9	5	02/16/18 01:45	02/23/18 03:24	7439-92-1	
Selenium	ND	mg/kg	5.8	5	02/16/18 01:45	02/22/18 03:08	7782-49-2	D3
Silver	ND	mg/kg	2.9	5	02/16/18 01:45	02/20/18 06:51	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.051**	mg/kg	0.0052	1	02/16/18 14:00	02/16/18 19:04	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	83-32-9	
Acenaphthylene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	208-96-8	
Aniline	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	62-53-3	
Anthracene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	207-08-9	
Benzoic Acid	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	65-85-0	
Benzyl alcohol	ND	ug/kg	832	1	02/13/18 10:00	02/16/18 17:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	101-55-3	
Butylbenzylphthalate	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	832	1	02/13/18 10:00	02/16/18 17:18	59-50-7	
4-Chloroaniline	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	111-44-4	
2-Chloronaphthalene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	91-58-7	
2-Chlorophenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	7005-72-3	
Chrysene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	53-70-3	
Dibenzofuran	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	120-83-2	
Diethylphthalate	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	105-67-9	
Dimethylphthalate	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	131-11-3	
Di-n-butylphthalate	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	832	1	02/13/18 10:00	02/16/18 17:18	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-19 **Lab ID: 92372721015** Collected: 02/08/18 13:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	606-20-2	
Di-n-octylphthalate	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	117-81-7	
Fluoranthene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	206-44-0	
Fluorene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	87-68-3	
Hexachlorobenzene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	77-47-4	
Hexachloroethane	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	193-39-5	
Isophorone	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	78-59-1	
1-Methylnaphthalene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	90-12-0	
2-Methylnaphthalene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	15831-10-4	
Naphthalene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	91-20-3	
2-Nitroaniline	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	88-74-4	
3-Nitroaniline	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	99-09-2	
4-Nitroaniline	ND	ug/kg	832	1	02/13/18 10:00	02/16/18 17:18	100-01-6	
Nitrobenzene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	98-95-3	
2-Nitrophenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	88-75-5	
4-Nitrophenol	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	108-60-1	
Pentachlorophenol	ND	ug/kg	2080	1	02/13/18 10:00	02/16/18 17:18	87-86-5	
Phenanthrene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	85-01-8	
Phenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	108-95-2	
Pyrene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	416	1	02/13/18 10:00	02/16/18 17:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	62	%	23-110	1	02/13/18 10:00	02/16/18 17:18	4165-60-0	
2-Fluorobiphenyl (S)	49	%	30-110	1	02/13/18 10:00	02/16/18 17:18	321-60-8	
Terphenyl-d14 (S)	77	%	28-110	1	02/13/18 10:00	02/16/18 17:18	1718-51-0	
Phenol-d6 (S)	52	%	22-110	1	02/13/18 10:00	02/16/18 17:18	13127-88-3	
2-Fluorophenol (S)	52	%	13-110	1	02/13/18 10:00	02/16/18 17:18	367-12-4	
2,4,6-Tribromophenol (S)	34	%	27-110	1	02/13/18 10:00	02/16/18 17:18	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**239**	ug/kg	110	1		02/13/18 21:43	67-64-1	
Benzene	ND	ug/kg	5.5	1		02/13/18 21:43	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-19 **Lab ID: 92372721015** Collected: 02/08/18 13:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		02/13/18 21:43	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		02/13/18 21:43	75-27-4	
Bromoform	ND	ug/kg	5.5	1		02/13/18 21:43	75-25-2	
Bromomethane	ND	ug/kg	11.0	1		02/13/18 21:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	110	1		02/13/18 21:43	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/13/18 21:43	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	108-90-7	
Chloroethane	ND	ug/kg	11.0	1		02/13/18 21:43	75-00-3	
Chloroform	ND	ug/kg	5.5	1		02/13/18 21:43	67-66-3	
Chloromethane	ND	ug/kg	11.0	1		02/13/18 21:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		02/13/18 21:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		02/13/18 21:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		02/13/18 21:43	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		02/13/18 21:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		02/13/18 21:43	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		02/13/18 21:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.0	1		02/13/18 21:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/13/18 21:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/13/18 21:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/13/18 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/13/18 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/13/18 21:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		02/13/18 21:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		02/13/18 21:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		02/13/18 21:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		02/13/18 21:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/13/18 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/13/18 21:43	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.5	1		02/13/18 21:43	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	165	1		02/13/18 21:43	123-91-1	
Ethylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		02/13/18 21:43	87-68-3	
2-Hexanone	ND	ug/kg	55.1	1		02/13/18 21:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		02/13/18 21:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		02/13/18 21:43	99-87-6	
Methylene Chloride	ND	ug/kg	22.0	1		02/13/18 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	55.1	1		02/13/18 21:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		02/13/18 21:43	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		02/13/18 21:43	91-20-3	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-19 **Lab ID: 92372721015** Collected: 02/08/18 13:40 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	103-65-1	
Styrene	ND	ug/kg	5.5	1		02/13/18 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/13/18 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/13/18 21:43	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		02/13/18 21:43	127-18-4	
Toluene	ND	ug/kg	5.5	1		02/13/18 21:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		02/13/18 21:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/13/18 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		02/13/18 21:43	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		02/13/18 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		02/13/18 21:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		02/13/18 21:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		02/13/18 21:43	108-67-8	
Vinyl acetate	ND	ug/kg	55.1	1		02/13/18 21:43	108-05-4	
Vinyl chloride	ND	ug/kg	11.0	1		02/13/18 21:43	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1		02/13/18 21:43	1330-20-7	
m&p-Xylene	ND	ug/kg	11.0	1		02/13/18 21:43	179601-23-1	
o-Xylene	ND	ug/kg	5.5	1		02/13/18 21:43	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		02/13/18 21:43	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/13/18 21:43	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-132	1		02/13/18 21:43	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.8**	%	0.10	1		02/13/18 11:30		

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-20 **Lab ID: 92372721016** Collected: 02/08/18 15:05 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**6.9**	mg/kg	5.1	5	02/16/18 01:45	02/22/18 03:11	7440-38-2	
Barium	**145**	mg/kg	2.6	5	02/16/18 01:45	02/22/18 03:11	7440-39-3	
Cadmium	ND	mg/kg	0.51	5	02/16/18 01:45	02/22/18 03:11	7440-43-9	D3
Chromium	**51.5**	mg/kg	2.6	5	02/16/18 01:45	02/22/18 03:11	7440-47-3	
Lead	**16.4**	mg/kg	2.6	5	02/16/18 01:45	02/23/18 03:27	7439-92-1	
Selenium	ND	mg/kg	5.1	5	02/16/18 01:45	02/22/18 03:11	7782-49-2	D3
Silver	ND	mg/kg	2.6	5	02/16/18 01:45	02/20/18 07:06	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.047**	mg/kg	0.0053	1	02/16/18 14:00	02/16/18 19:06	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.9**	%	0.10	1		02/13/18 11:30		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	5.8	1	02/14/18 11:30	02/14/18 13:45	18540-29-9	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-21 **Lab ID: 92372721017** Collected: 02/08/18 17:15 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**2.5**	mg/kg	1.1	1	02/16/18 01:45	02/18/18 08:39	7440-38-2	
Barium	**113**	mg/kg	1.1	2	02/16/18 01:45	02/20/18 07:09	7440-39-3	
Cadmium	ND	mg/kg	0.11	1	02/16/18 01:45	02/18/18 08:39	7440-43-9	
Chromium	**13.7**	mg/kg	0.56	1	02/16/18 01:45	02/18/18 08:39	7440-47-3	
Lead	**51.2**	mg/kg	0.56	1	02/16/18 01:45	02/18/18 08:39	7439-92-1	
Selenium	**2.3**	mg/kg	1.1	1	02/16/18 01:45	02/18/18 08:39	7782-49-2	
Silver	ND	mg/kg	0.56	1	02/16/18 01:45	02/18/18 08:39	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.043**	mg/kg	0.0034	1	02/16/18 14:00	02/16/18 19:08	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.6**	%	0.10	1		02/13/18 11:30		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	4.6	1	02/14/18 11:30	02/14/18 14:25	18540-29-9	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17D **Lab ID: 92372721018** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	4.2	5	02/16/18 01:45	02/22/18 03:14	7440-38-2	D3
Barium	**106**	mg/kg	2.1	5	02/16/18 01:45	02/22/18 03:14	7440-39-3	
Cadmium	ND	mg/kg	0.42	5	02/16/18 01:45	02/22/18 03:14	7440-43-9	D3
Chromium	**17.3**	mg/kg	2.1	5	02/16/18 01:45	02/22/18 03:14	7440-47-3	
Lead	**27.0**	mg/kg	2.1	5	02/16/18 01:45	02/23/18 03:30	7439-92-1	
Selenium	ND	mg/kg	4.2	5	02/16/18 01:45	02/22/18 03:14	7782-49-2	D3
Silver	ND	mg/kg	2.1	5	02/16/18 01:45	02/20/18 07:12	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.014**	mg/kg	0.0039	1	02/16/18 14:00	02/16/18 19:11	7439-97-6	
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	83-32-9	
Acenaphthylene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	208-96-8	
Aniline	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	62-53-3	
Anthracene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	120-12-7	
Benzo(a)anthracene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	207-08-9	
Benzoic Acid	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	65-85-0	
Benzyl alcohol	ND	ug/kg	807	1	02/13/18 10:00	02/16/18 17:47	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	101-55-3	
Butylbenzylphthalate	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	807	1	02/13/18 10:00	02/16/18 17:47	59-50-7	
4-Chloroaniline	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	111-44-4	
2-Chloronaphthalene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	91-58-7	
2-Chlorophenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	7005-72-3	
Chrysene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	53-70-3	
Dibenzofuran	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	120-83-2	
Diethylphthalate	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	105-67-9	
Dimethylphthalate	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	131-11-3	
Di-n-butylphthalate	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	807	1	02/13/18 10:00	02/16/18 17:47	534-52-1	

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2225 Riverside Dr.
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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17D **Lab ID: 92372721018** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Microwave	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	606-20-2	
Di-n-octylphthalate	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	117-81-7	
Fluoranthene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	206-44-0	
Fluorene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	87-68-3	
Hexachlorobenzene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	77-47-4	
Hexachloroethane	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	193-39-5	
Isophorone	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	78-59-1	
1-Methylnaphthalene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	90-12-0	
2-Methylnaphthalene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	15831-10-4	
Naphthalene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	91-20-3	
2-Nitroaniline	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	88-74-4	
3-Nitroaniline	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	99-09-2	
4-Nitroaniline	ND	ug/kg	807	1	02/13/18 10:00	02/16/18 17:47	100-01-6	
Nitrobenzene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	98-95-3	
2-Nitrophenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	88-75-5	
4-Nitrophenol	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	108-60-1	
Pentachlorophenol	ND	ug/kg	2020	1	02/13/18 10:00	02/16/18 17:47	87-86-5	
Phenanthrene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	85-01-8	
Phenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	108-95-2	
Pyrene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	404	1	02/13/18 10:00	02/16/18 17:47	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	23-110	1	02/13/18 10:00	02/16/18 17:47	4165-60-0	
2-Fluorobiphenyl (S)	46	%	30-110	1	02/13/18 10:00	02/16/18 17:47	321-60-8	
Terphenyl-d14 (S)	60	%	28-110	1	02/13/18 10:00	02/16/18 17:47	1718-51-0	
Phenol-d6 (S)	43	%	22-110	1	02/13/18 10:00	02/16/18 17:47	13127-88-3	
2-Fluorophenol (S)	43	%	13-110	1	02/13/18 10:00	02/16/18 17:47	367-12-4	
2,4,6-Tribromophenol (S)	31	%	27-110	1	02/13/18 10:00	02/16/18 17:47	118-79-6	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	101	1		02/12/18 14:33	67-64-1	
Benzene	ND	ug/kg	5.1	1		02/12/18 14:33	71-43-2	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17D **Lab ID: 92372721018** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Bromobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		02/12/18 14:33	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		02/12/18 14:33	75-27-4	
Bromoform	ND	ug/kg	5.1	1		02/12/18 14:33	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		02/12/18 14:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		02/12/18 14:33	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		02/12/18 14:33	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		02/12/18 14:33	75-00-3	
Chloroform	ND	ug/kg	5.1	1		02/12/18 14:33	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		02/12/18 14:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		02/12/18 14:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		02/12/18 14:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		02/12/18 14:33	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		02/12/18 14:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		02/12/18 14:33	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		02/12/18 14:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		02/12/18 14:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		02/12/18 14:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		02/12/18 14:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		02/12/18 14:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		02/12/18 14:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		02/12/18 14:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		02/12/18 14:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		02/12/18 14:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		02/12/18 14:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		02/12/18 14:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		02/12/18 14:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		02/12/18 14:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		02/12/18 14:33	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/kg	152	1		02/12/18 14:33	123-91-1	
Ethylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		02/12/18 14:33	87-68-3	
2-Hexanone	ND	ug/kg	50.5	1		02/12/18 14:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		02/12/18 14:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		02/12/18 14:33	99-87-6	
Methylene Chloride	ND	ug/kg	20.2	1		02/12/18 14:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.5	1		02/12/18 14:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		02/12/18 14:33	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		02/12/18 14:33	91-20-3	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-17D **Lab ID: 92372721018** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
n-Propylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	103-65-1	
Styrene	ND	ug/kg	5.1	1		02/12/18 14:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		02/12/18 14:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		02/12/18 14:33	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		02/12/18 14:33	127-18-4	
Toluene	ND	ug/kg	5.1	1		02/12/18 14:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		02/12/18 14:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		02/12/18 14:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		02/12/18 14:33	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		02/12/18 14:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		02/12/18 14:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		02/12/18 14:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		02/12/18 14:33	108-67-8	
Vinyl acetate	ND	ug/kg	50.5	1		02/12/18 14:33	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		02/12/18 14:33	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		02/12/18 14:33	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		02/12/18 14:33	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		02/12/18 14:33	95-47-6	
Surrogates								
Toluene-d8 (S)	107	%	70-130	1		02/12/18 14:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		02/12/18 14:33	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132	1		02/12/18 14:33	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.7**	%	0.10	1		02/13/18 11:30		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: T-3 **Lab ID: 92372721019** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 21:39	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 21:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 21:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 21:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 21:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 21:39	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 21:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 21:39	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 21:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 21:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/10/18 21:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 21:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 21:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 21:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 21:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 21:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 21:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 21:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 21:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 21:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 21:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 21:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 21:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 21:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 21:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 21:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 21:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 21:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 21:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 21:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 21:39	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 21:39	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 21:39	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 21:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 21:39	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 21:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 21:39	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 21:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 21:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 21:39	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 21:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 21:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 21:39	79-34-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: T-3 **Lab ID: 92372721019** Collected: 02/08/18 12:55 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 21:39	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 21:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 21:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 21:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 21:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 21:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 21:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 21:39	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 21:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 21:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 21:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/10/18 21:39	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		02/10/18 21:39	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		02/10/18 21:39	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-3 **Lab ID: 92372721020** Collected: 02/08/18 18:15 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/13/18 05:25	02/14/18 20:00	7440-38-2	
Barium	ND	ug/L	5.0	1	02/13/18 05:25	02/14/18 20:00	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/13/18 05:25	02/14/18 20:00	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/18 05:25	02/14/18 20:00	7440-47-3	
Lead	ND	ug/L	5.0	1	02/13/18 05:25	02/14/18 20:00	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/13/18 05:25	02/14/18 20:00	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/18 05:25	02/14/18 20:00	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/14/18 11:55	02/15/18 14:08	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	208-96-8	
Aniline	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 14:27	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 14:27	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 14:27	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 14:27	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 14:27	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 14:27	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 14:27	51-28-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-3 **Lab ID: 92372721020** Collected: 02/08/18 18:15 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/14/18 10:47	02/16/18 14:27	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 14:27	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 14:27	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 14:27	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 14:27	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/14/18 10:47	02/16/18 14:27	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	85-01-8	
Phenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 14:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%	40-121	1	02/14/18 10:47	02/16/18 14:27	4165-60-0	
2-Fluorobiphenyl (S)	68	%	45-139	1	02/14/18 10:47	02/16/18 14:27	321-60-8	
Terphenyl-d14 (S)	74	%	48-146	1	02/14/18 10:47	02/16/18 14:27	1718-51-0	
Phenol-d6 (S)	35	%	18-105	1	02/14/18 10:47	02/16/18 14:27	13127-88-3	
2-Fluorophenol (S)	41	%	13-118	1	02/14/18 10:47	02/16/18 14:27	367-12-4	
2,4,6-Tribromophenol (S)	66	%	31-170	1	02/14/18 10:47	02/16/18 14:27	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 21:55	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 21:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 21:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 21:55	74-97-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-3 **Lab ID: 92372721020** Collected: 02/08/18 18:15 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 21:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 21:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 21:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 21:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 21:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 21:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/10/18 21:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 21:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 21:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 21:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 21:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 21:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 21:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 21:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 21:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 21:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 21:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 21:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 21:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 21:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 21:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 21:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 21:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 21:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 21:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 21:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 21:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 21:55	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 21:55	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 21:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 21:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 21:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 21:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 21:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 21:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 21:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 21:55	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 21:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 21:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 21:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 21:55	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 21:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 21:55	120-82-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-3 **Lab ID: 92372721020** Collected: 02/08/18 18:15 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 21:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 21:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 21:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 21:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 21:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 21:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 21:55	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 21:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 21:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 21:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/10/18 21:55	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/10/18 21:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/10/18 21:55	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: T-4 **Lab ID: 92372721021** Collected: 02/08/18 18:15 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 22:12	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 22:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 22:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 22:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 22:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 22:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 22:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 22:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 22:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 22:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/10/18 22:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 22:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 22:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 22:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 22:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 22:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 22:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 22:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 22:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 22:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 22:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 22:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 22:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 22:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 22:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 22:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 22:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 22:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 22:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 22:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 22:12	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 22:12	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 22:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 22:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 22:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 22:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 22:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 22:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 22:12	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 22:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 22:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 22:12	79-34-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: T-4 **Lab ID: 92372721021** Collected: 02/08/18 18:15 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 22:12	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 22:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 22:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 22:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 22:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 22:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 22:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 22:12	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 22:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 22:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 22:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/10/18 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		02/10/18 22:12	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		02/10/18 22:12	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-4 **Lab ID: 92372721022** Collected: 02/08/18 17:45 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/18/18 15:35	02/19/18 18:27	7440-38-2	
Barium	ND	ug/L	5.0	1	02/18/18 15:35	02/19/18 18:27	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/18/18 15:35	02/19/18 18:27	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/18/18 15:35	02/19/18 18:27	7440-47-3	
Lead	ND	ug/L	5.0	1	02/18/18 15:35	02/19/18 18:27	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/18/18 15:35	02/19/18 18:27	7782-49-2	
Silver	ND	ug/L	5.0	1	02/18/18 15:35	02/19/18 18:27	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/14/18 11:55	02/15/18 14:10	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	208-96-8	
Aniline	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 15:26	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 15:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 15:26	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 15:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 15:26	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 15:26	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 15:26	51-28-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-4 **Lab ID: 92372721022** Collected: 02/08/18 17:45 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/14/18 10:47	02/16/18 15:26	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 15:26	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 15:26	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/14/18 10:47	02/16/18 15:26	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/14/18 10:47	02/16/18 15:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/14/18 10:47	02/16/18 15:26	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	85-01-8	
Phenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/14/18 10:47	02/16/18 15:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	40-121	1	02/14/18 10:47	02/16/18 15:26	4165-60-0	
2-Fluorobiphenyl (S)	71	%	45-139	1	02/14/18 10:47	02/16/18 15:26	321-60-8	
Terphenyl-d14 (S)	77	%	48-146	1	02/14/18 10:47	02/16/18 15:26	1718-51-0	
Phenol-d6 (S)	46	%	18-105	1	02/14/18 10:47	02/16/18 15:26	13127-88-3	
2-Fluorophenol (S)	49	%	13-118	1	02/14/18 10:47	02/16/18 15:26	367-12-4	
2,4,6-Tribromophenol (S)	76	%	31-170	1	02/14/18 10:47	02/16/18 15:26	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/10/18 22:29	67-64-1	
Benzene	ND	ug/L	1.0	1		02/10/18 22:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/10/18 22:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/10/18 22:29	74-97-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-4 **Lab ID: 92372721022** Collected: 02/08/18 17:45 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/10/18 22:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/10/18 22:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/10/18 22:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/10/18 22:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/10/18 22:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/10/18 22:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/10/18 22:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/10/18 22:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/10/18 22:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 22:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/10/18 22:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/10/18 22:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/10/18 22:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/10/18 22:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/10/18 22:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/10/18 22:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/10/18 22:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/10/18 22:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/10/18 22:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 22:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/10/18 22:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 22:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/10/18 22:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/10/18 22:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/10/18 22:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 22:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/10/18 22:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/10/18 22:29	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/10/18 22:29	123-91-1	L1
Ethylbenzene	ND	ug/L	1.0	1		02/10/18 22:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/10/18 22:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/10/18 22:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/10/18 22:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/10/18 22:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/10/18 22:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/10/18 22:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/10/18 22:29	91-20-3	
Styrene	ND	ug/L	1.0	1		02/10/18 22:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 22:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/10/18 22:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/10/18 22:29	127-18-4	
Toluene	ND	ug/L	1.0	1		02/10/18 22:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/10/18 22:29	120-82-1	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: R-4 **Lab ID: 92372721022** Collected: 02/08/18 17:45 Received: 02/09/18 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/10/18 22:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/10/18 22:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/10/18 22:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/10/18 22:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/10/18 22:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/10/18 22:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/10/18 22:29	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/10/18 22:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/10/18 22:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/10/18 22:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/10/18 22:29	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/10/18 22:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		02/10/18 22:29	2037-26-5	

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ANALYTICAL RESULTS

Project: DREXEL
Pace Project No.: 92372721

Sample: GP-20D **Lab ID: 92372721023** Collected: 02/08/18 15:05 Received: 02/09/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.4**	mg/kg	1.1	1	02/16/18 01:45	02/18/18 08:45	7440-38-2	
Barium	**114**	mg/kg	0.55	1	02/16/18 01:45	02/18/18 08:45	7440-39-3	
Cadmium	ND	mg/kg	0.11	1	02/16/18 01:45	02/18/18 08:45	7440-43-9	
Chromium	**36.2**	mg/kg	0.55	1	02/16/18 01:45	02/18/18 08:45	7440-47-3	
Lead	**8.5**	mg/kg	0.55	1	02/16/18 01:45	02/18/18 08:45	7439-92-1	
Selenium	**3.3**	mg/kg	1.1	1	02/16/18 01:45	02/18/18 08:45	7782-49-2	
Silver	ND	mg/kg	0.55	1	02/16/18 01:45	02/18/18 08:45	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.021**	mg/kg	0.0025	1	02/16/18 14:00	02/16/18 19:13	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.5**	%	0.10	1		02/13/18 11:38		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	4.9	1	02/14/18 11:30	02/14/18 13:46	18540-29-9	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397894 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92372721020, 92372721022

METHOD BLANK: 2206937 Matrix: Water
Associated Lab Samples: 92372721020, 92372721022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/15/18 13:12	

LABORATORY CONTROL SAMPLE: 2206938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206939 2206940

Parameter	Units	92372445001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.5	99	99	75-125	0	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 398216 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92372721001, 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721016, 92372721017, 92372721018, 92372721023

METHOD BLANK: 2208786 Matrix: Solid
Associated Lab Samples: 92372721001, 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721016, 92372721017, 92372721018, 92372721023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0060	02/16/18 18:12	

LABORATORY CONTROL SAMPLE: 2208787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.083	0.071	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208788 2208789

Parameter	Units	92372721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	ND	.1	.098	0.099	0.090	91	88	75-125	9	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 398164 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92372721001, 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721016, 92372721017, 92372721018, 92372721023

METHOD BLANK: 2208287 Matrix: Solid
Associated Lab Samples: 92372721001, 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721016, 92372721017, 92372721018, 92372721023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/18/18 07:22	
Barium	mg/kg	ND	0.50	02/18/18 07:22	
Cadmium	mg/kg	ND	0.10	02/18/18 07:22	
Chromium	mg/kg	ND	0.50	02/18/18 07:22	
Lead	mg/kg	ND	0.50	02/18/18 07:22	
Selenium	mg/kg	ND	1.0	02/18/18 07:22	
Silver	mg/kg	ND	0.50	02/18/18 07:22	

LABORATORY CONTROL SAMPLE: 2208288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.0	98	80-120	
Barium	mg/kg	50	46.7	93	80-120	
Cadmium	mg/kg	50	47.6	95	80-120	
Chromium	mg/kg	50	46.7	93	80-120	
Lead	mg/kg	50	48.4	97	80-120	
Selenium	mg/kg	50	46.2	92	80-120	
Silver	mg/kg	25	23.9	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2208289 2208290

Parameter	Units	92372721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	2.9	50.7	46.3	35.7	35.2	65	70	75-125	1	
Barium	mg/kg	137	50.7	46.3	167	156	58	40	75-125	7	
Cadmium	mg/kg	ND	50.7	46.3	34.3	33.2	68	72	75-125	3	
Chromium	mg/kg	21.7	50.7	46.3	49.8	50.1	55	62	75-125	1	
Lead	mg/kg	18.8	50.7	46.3	48.2	46.2	58	59	75-125	4	
Selenium	mg/kg	2.0	50.7	46.3	33.5	33.1	62	67	75-125	1	
Silver	mg/kg	ND	25.4	23.2	18.0	17.3	71	75	75-125	4	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397720 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92372721020

METHOD BLANK: 2205916 Matrix: Water
Associated Lab Samples: 92372721020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	02/14/18 18:57	
Barium	ug/L	ND	5.0	02/14/18 18:57	
Cadmium	ug/L	ND	1.0	02/14/18 18:57	
Chromium	ug/L	ND	5.0	02/14/18 18:57	
Lead	ug/L	ND	5.0	02/14/18 18:57	
Selenium	ug/L	ND	10.0	02/14/18 18:57	
Silver	ug/L	ND	5.0	02/14/18 18:57	

LABORATORY CONTROL SAMPLE: 2205917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	468	94	80-120	
Barium	ug/L	500	470	94	80-120	
Cadmium	ug/L	500	474	95	80-120	
Chromium	ug/L	500	471	94	80-120	
Lead	ug/L	500	463	93	80-120	
Selenium	ug/L	500	472	94	80-120	
Silver	ug/L	250	233	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207974 2207975

Parameter	Units	92372641001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	ND	500	500	469	473	93	94	75-125	1	
Barium	ug/L	151	500	500	627	620	95	94	75-125	1	
Cadmium	ug/L	ND	500	500	495	500	99	100	75-125	1	
Chromium	ug/L	31.9	500	500	503	507	94	95	75-125	1	
Lead	ug/L	9.7	500	500	466	470	91	92	75-125	1	
Selenium	ug/L	ND	500	500	478	485	96	97	75-125	1	
Silver	ug/L	ND	250	250	236	235	94	94	75-125	1	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 398583
QC Batch Method: EPA 3010A
Associated Lab Samples: 92372721022

Analysis Method: EPA 6010
Analysis Description: 6010 MET

METHOD BLANK: 2210882 Matrix: Water
Associated Lab Samples: 92372721022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	02/19/18 18:21	
Barium	ug/L	ND	5.0	02/19/18 18:21	
Cadmium	ug/L	ND	1.0	02/19/18 18:21	
Chromium	ug/L	ND	5.0	02/19/18 18:21	
Lead	ug/L	ND	5.0	02/19/18 18:21	
Selenium	ug/L	ND	10.0	02/19/18 18:21	
Silver	ug/L	ND	5.0	02/19/18 18:21	

LABORATORY CONTROL SAMPLE: 2210883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	482	96	80-120	
Barium	ug/L	500	500	100	80-120	
Cadmium	ug/L	500	499	100	80-120	
Chromium	ug/L	500	492	98	80-120	
Lead	ug/L	500	484	97	80-120	
Selenium	ug/L	500	483	97	80-120	
Silver	ug/L	250	247	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2210884 2210885

Parameter	Units	92372721022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	ND	500	500	500	507	100	101	75-125	1	
Barium	ug/L	ND	500	500	548	510	110	102	75-125	7	
Cadmium	ug/L	ND	500	500	511	510	102	102	75-125	0	
Chromium	ug/L	ND	500	500	509	511	101	102	75-125	0	
Lead	ug/L	ND	500	500	504	499	101	100	75-125	1	
Selenium	ug/L	ND	500	500	514	522	103	104	75-125	2	
Silver	ug/L	ND	250	250	255	257	102	103	75-125	1	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397552 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92372721019, 92372721020, 92372721021, 92372721022

METHOD BLANK: 2204960 Matrix: Water
Associated Lab Samples: 92372721019, 92372721020, 92372721021, 92372721022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/10/18 19:57	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/10/18 19:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/10/18 19:57	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/10/18 19:57	
1,1-Dichloroethane	ug/L	ND	1.0	02/10/18 19:57	
1,1-Dichloroethene	ug/L	ND	1.0	02/10/18 19:57	
1,1-Dichloropropene	ug/L	ND	1.0	02/10/18 19:57	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/10/18 19:57	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/10/18 19:57	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/10/18 19:57	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/10/18 19:57	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/10/18 19:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/10/18 19:57	
1,2-Dichloroethane	ug/L	ND	1.0	02/10/18 19:57	
1,2-Dichloropropane	ug/L	ND	1.0	02/10/18 19:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/10/18 19:57	
1,3-Dichloropropane	ug/L	ND	1.0	02/10/18 19:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/10/18 19:57	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	02/10/18 19:57	
2,2-Dichloropropane	ug/L	ND	1.0	02/10/18 19:57	
2-Butanone (MEK)	ug/L	ND	5.0	02/10/18 19:57	
2-Chlorotoluene	ug/L	ND	1.0	02/10/18 19:57	
2-Hexanone	ug/L	ND	5.0	02/10/18 19:57	
4-Chlorotoluene	ug/L	ND	1.0	02/10/18 19:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/10/18 19:57	
Acetone	ug/L	ND	25.0	02/10/18 19:57	
Benzene	ug/L	ND	1.0	02/10/18 19:57	
Bromobenzene	ug/L	ND	1.0	02/10/18 19:57	
Bromochloromethane	ug/L	ND	1.0	02/10/18 19:57	
Bromodichloromethane	ug/L	ND	1.0	02/10/18 19:57	
Bromoform	ug/L	ND	1.0	02/10/18 19:57	
Bromomethane	ug/L	ND	2.0	02/10/18 19:57	
Carbon tetrachloride	ug/L	ND	1.0	02/10/18 19:57	
Chlorobenzene	ug/L	ND	1.0	02/10/18 19:57	
Chloroethane	ug/L	ND	1.0	02/10/18 19:57	
Chloroform	ug/L	ND	1.0	02/10/18 19:57	
Chloromethane	ug/L	ND	1.0	02/10/18 19:57	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/10/18 19:57	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/10/18 19:57	
Dibromochloromethane	ug/L	ND	1.0	02/10/18 19:57	
Dibromomethane	ug/L	ND	1.0	02/10/18 19:57	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2204960 Matrix: Water
Associated Lab Samples: 92372721019, 92372721020, 92372721021, 92372721022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	02/10/18 19:57	
Diisopropyl ether	ug/L	ND	1.0	02/10/18 19:57	
Ethylbenzene	ug/L	ND	1.0	02/10/18 19:57	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/10/18 19:57	
m&p-Xylene	ug/L	ND	2.0	02/10/18 19:57	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/10/18 19:57	
Methylene Chloride	ug/L	ND	2.0	02/10/18 19:57	
Naphthalene	ug/L	ND	1.0	02/10/18 19:57	
o-Xylene	ug/L	ND	1.0	02/10/18 19:57	
p-Isopropyltoluene	ug/L	ND	1.0	02/10/18 19:57	
Styrene	ug/L	ND	1.0	02/10/18 19:57	
Tetrachloroethene	ug/L	ND	1.0	02/10/18 19:57	
Toluene	ug/L	ND	1.0	02/10/18 19:57	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/10/18 19:57	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/10/18 19:57	
Trichloroethene	ug/L	ND	1.0	02/10/18 19:57	
Trichlorofluoromethane	ug/L	ND	1.0	02/10/18 19:57	
Vinyl acetate	ug/L	ND	2.0	02/10/18 19:57	
Vinyl chloride	ug/L	ND	1.0	02/10/18 19:57	
Xylene (Total)	ug/L	ND	1.0	02/10/18 19:57	
1,2-Dichloroethane-d4 (S)	%	93	70-130	02/10/18 19:57	
4-Bromofluorobenzene (S)	%	95	70-130	02/10/18 19:57	
Toluene-d8 (S)	%	101	70-130	02/10/18 19:57	

LABORATORY CONTROL SAMPLE: 2204961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.6	113	80-125	
1,1,1-Trichloroethane	ug/L	50	48.7	97	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	79-124	
1,1,2-Trichloroethane	ug/L	50	51.9	104	85-125	
1,1-Dichloroethane	ug/L	50	45.3	91	73-126	
1,1-Dichloroethene	ug/L	50	47.0	94	66-135	
1,1-Dichloropropene	ug/L	50	51.2	102	74-135	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	73-135	
1,2,3-Trichloropropane	ug/L	50	53.3	107	75-130	
1,2,4-Trichlorobenzene	ug/L	50	56.0	112	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	83-124	
1,2-Dichlorobenzene	ug/L	50	53.7	107	80-133	
1,2-Dichloroethane	ug/L	50	43.7	87	67-128	
1,2-Dichloropropane	ug/L	50	51.8	104	75-132	
1,3-Dichlorobenzene	ug/L	50	53.8	108	77-130	
1,3-Dichloropropane	ug/L	50	57.4	115	76-131	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2204961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	52.5	105	78-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1360	136	71-125	F3,L1
2,2-Dichloropropane	ug/L	50	49.0	98	40-160	
2-Butanone (MEK)	ug/L	100	94.9	95	61-144	
2-Chlorotoluene	ug/L	50	55.3	111	74-132	
2-Hexanone	ug/L	100	115	115	68-143	
4-Chlorotoluene	ug/L	50	55.5	111	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	72-135	
Acetone	ug/L	100	98.3	98	48-146	
Benzene	ug/L	50	52.6	105	80-125	
Bromobenzene	ug/L	50	55.5	111	75-125	
Bromochloromethane	ug/L	50	43.8	88	71-125	
Bromodichloromethane	ug/L	50	49.4	99	78-124	
Bromoform	ug/L	50	49.0	98	71-128	
Bromomethane	ug/L	50	42.8	86	40-160	
Carbon tetrachloride	ug/L	50	48.8	98	69-131	
Chlorobenzene	ug/L	50	52.5	105	81-122	
Chloroethane	ug/L	50	56.8	114	39-148	
Chloroform	ug/L	50	47.9	96	73-127	
Chloromethane	ug/L	50	39.3	79	44-146	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	74-124	
cis-1,3-Dichloropropene	ug/L	50	53.8	108	72-132	
Dibromochloromethane	ug/L	50	56.3	113	78-125	
Dibromomethane	ug/L	50	47.2	94	82-120	
Dichlorodifluoromethane	ug/L	50	38.0	76	34-157	
Diisopropyl ether	ug/L	50	54.3	109	69-135	
Ethylbenzene	ug/L	50	52.9	106	79-121	
Hexachloro-1,3-butadiene	ug/L	50	54.1	108	72-131	
m&p-Xylene	ug/L	100	107	107	81-124	
Methyl-tert-butyl ether	ug/L	50	51.4	103	74-131	
Methylene Chloride	ug/L	50	48.8	98	64-133	
Naphthalene	ug/L	50	57.7	115	73-133	
o-Xylene	ug/L	50	53.9	108	79-131	
p-Isopropyltoluene	ug/L	50	56.5	113	80-131	
Styrene	ug/L	50	52.7	105	84-126	
Tetrachloroethene	ug/L	50	52.3	105	78-122	
Toluene	ug/L	50	48.7	97	80-121	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	71-127	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	69-141	
Trichloroethene	ug/L	50	51.2	102	78-122	
Trichlorofluoromethane	ug/L	50	40.4	81	53-137	
Vinyl acetate	ug/L	100	97.2	97	40-160	
Vinyl chloride	ug/L	50	48.1	96	50-150	
Xylene (Total)	ug/L	150	161	108	81-126	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2204962 2204963

Parameter	Units	92372205002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	543	582	109	116	70-130	7	
1,1,1-Trichloroethane	ug/L	ND	500	500	506	498	101	100	70-130	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	546	573	109	115	70-130	5	
1,1,2-Trichloroethane	ug/L	ND	500	500	525	558	105	112	70-130	6	
1,1-Dichloroethane	ug/L	ND	500	500	473	450	95	90	70-130	5	
1,1-Dichloroethene	ug/L	ND	500	500	516	505	103	101	70-166	2	
1,1-Dichloropropene	ug/L	ND	500	500	527	523	105	105	70-130	1	
1,2,3-Trichlorobenzene	ug/L	ND	500	500	507	526	101	105	70-130	4	
1,2,3-Trichloropropane	ug/L	ND	500	500	547	589	109	118	70-130	7	
1,2,4-Trichlorobenzene	ug/L	ND	500	500	537	554	107	111	70-130	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	524	539	105	108	70-130	3	
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	565	587	113	117	70-130	4	
1,2-Dichlorobenzene	ug/L	ND	500	500	549	565	110	113	70-130	3	
1,2-Dichloroethane	ug/L	ND	500	500	467	465	93	93	70-130	0	
1,2-Dichloropropane	ug/L	ND	500	500	522	548	104	110	70-130	5	
1,3-Dichlorobenzene	ug/L	ND	500	500	547	567	109	113	70-130	4	
1,3-Dichloropropane	ug/L	ND	500	500	595	621	119	124	70-130	4	
1,4-Dichlorobenzene	ug/L	ND	500	500	542	551	108	110	70-130	2	
1,4-Dioxane (p-Dioxane)	ug/L	ND	10000	10000	9060	12300	91	123	70-130	30	
2,2-Dichloropropane	ug/L	ND	500	500	431	441	86	88	70-130	2	
2-Butanone (MEK)	ug/L	ND	1000	1000	973	1010	97	101	70-130	4	
2-Chlorotoluene	ug/L	ND	500	500	570	586	114	117	70-130	3	
2-Hexanone	ug/L	ND	1000	1000	1130	1240	113	124	70-130	9	
4-Chlorotoluene	ug/L	ND	500	500	558	581	112	116	70-130	4	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	1020	1100	102	110	70-130	7	
Acetone	ug/L	ND	1000	1000	995	1020	99	102	70-130	2	
Benzene	ug/L	ND	500	500	549	558	110	112	70-148	2	
Bromobenzene	ug/L	ND	500	500	571	585	114	117	70-130	2	
Bromochloromethane	ug/L	ND	500	500	523	477	105	95	70-130	9	
Bromodichloromethane	ug/L	ND	500	500	523	530	105	106	70-130	1	
Bromoform	ug/L	ND	500	500	501	514	100	103	70-130	3	
Bromomethane	ug/L	ND	500	500	442	529	88	106	70-130	18	
Carbon tetrachloride	ug/L	ND	500	500	504	533	101	107	70-130	6	
Chlorobenzene	ug/L	ND	500	500	562	586	112	117	70-146	4	
Chloroethane	ug/L	ND	500	500	566	523	113	105	70-130	8	
Chloroform	ug/L	ND	500	500	523	502	105	100	70-130	4	
Chloromethane	ug/L	ND	500	500	432	419	86	84	70-130	3	
cis-1,2-Dichloroethene	ug/L	104	500	500	588	575	97	94	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	500	500	511	530	102	106	70-130	4	
Dibromochloromethane	ug/L	ND	500	500	549	579	110	116	70-130	5	
Dibromomethane	ug/L	ND	500	500	483	508	97	102	70-130	5	
Dichlorodifluoromethane	ug/L	ND	500	500	413	398	83	80	70-130	4	
Diisopropyl ether	ug/L	ND	500	500	498	536	100	107	70-130	7	
Ethylbenzene	ug/L	ND	500	500	567	589	113	118	70-130	4	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	506	516	101	103	70-130	2	
m&p-Xylene	ug/L	ND	1000	1000	1140	1190	114	119	70-130	5	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2204962 2204963

Parameter	Units	92372205002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methyl-tert-butyl ether	ug/L	ND	500	500	497	503	99	101	70-130	1	
Methylene Chloride	ug/L	ND	500	500	521	512	104	102	70-130	2	
Naphthalene	ug/L	ND	500	500	543	557	109	111	70-130	3	
o-Xylene	ug/L	ND	500	500	570	601	114	120	70-130	5	
p-Isopropyltoluene	ug/L	ND	500	500	561	586	112	117	70-130	4	
Styrene	ug/L	ND	500	500	537	569	107	114	70-130	6	
Tetrachloroethene	ug/L	4050	500	500	4020	4020	-4	-6	70-130	0	M1
Toluene	ug/L	ND	500	500	532	545	103	105	70-155	2	
trans-1,2-Dichloroethene	ug/L	ND	500	500	515	501	103	100	70-130	3	
trans-1,3-Dichloropropene	ug/L	ND	500	500	469	496	94	99	70-130	6	
Trichloroethene	ug/L	117	500	500	669	650	110	107	69-151	3	
Trichlorofluoromethane	ug/L	ND	500	500	464	448	93	90	70-130	3	
Vinyl acetate	ug/L	ND	1000	1000	956	992	96	99	70-130	4	
Vinyl chloride	ug/L	ND	500	500	501	509	100	102	70-130	2	
Xylene (Total)	ug/L	ND	1500	1500	1710	1790	114	120	70-130	5	
1,2-Dichloroethane-d4 (S)	%						93	88	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						96	95	70-130		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397571 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92372721001, 92372721002, 92372721003

METHOD BLANK: 2205091 Matrix: Solid
Associated Lab Samples: 92372721001, 92372721002, 92372721003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1,1-Trichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1,2-Trichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1-Dichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,1-Dichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
1,1-Dichloropropene	ug/kg	ND	6.2	02/11/18 13:15	
1,2,3-Trichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2,3-Trichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,2,4-Trichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2,4-Trimethylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dichloroethane	ug/kg	ND	6.2	02/11/18 13:15	
1,2-Dichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,3,5-Trimethylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,3-Dichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,3-Dichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
1,4-Dichlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
1,4-Dioxane (p-Dioxane)	ug/kg	ND	187	02/11/18 13:15	
2,2-Dichloropropane	ug/kg	ND	6.2	02/11/18 13:15	
2-Butanone (MEK)	ug/kg	ND	125	02/11/18 13:15	
2-Chlorotoluene	ug/kg	ND	6.2	02/11/18 13:15	
2-Hexanone	ug/kg	ND	62.3	02/11/18 13:15	
4-Chlorotoluene	ug/kg	ND	6.2	02/11/18 13:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	62.3	02/11/18 13:15	
Acetone	ug/kg	ND	125	02/11/18 13:15	
Benzene	ug/kg	ND	6.2	02/11/18 13:15	
Bromobenzene	ug/kg	ND	6.2	02/11/18 13:15	
Bromochloromethane	ug/kg	ND	6.2	02/11/18 13:15	
Bromodichloromethane	ug/kg	ND	6.2	02/11/18 13:15	
Bromoform	ug/kg	ND	6.2	02/11/18 13:15	
Bromomethane	ug/kg	ND	12.5	02/11/18 13:15	
Carbon tetrachloride	ug/kg	ND	6.2	02/11/18 13:15	
Chlorobenzene	ug/kg	ND	6.2	02/11/18 13:15	
Chloroethane	ug/kg	ND	12.5	02/11/18 13:15	
Chloroform	ug/kg	ND	6.2	02/11/18 13:15	
Chloromethane	ug/kg	ND	12.5	02/11/18 13:15	
cis-1,2-Dichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
cis-1,3-Dichloropropene	ug/kg	ND	6.2	02/11/18 13:15	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2205091 Matrix: Solid
Associated Lab Samples: 92372721001, 92372721002, 92372721003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	6.2	02/11/18 13:15	
Dibromomethane	ug/kg	ND	6.2	02/11/18 13:15	
Dichlorodifluoromethane	ug/kg	ND	12.5	02/11/18 13:15	
Diisopropyl ether	ug/kg	ND	6.2	02/11/18 13:15	
Ethylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Hexachloro-1,3-butadiene	ug/kg	ND	6.2	02/11/18 13:15	
Isopropylbenzene (Cumene)	ug/kg	ND	6.2	02/11/18 13:15	
m&p-Xylene	ug/kg	ND	12.5	02/11/18 13:15	
Methyl-tert-butyl ether	ug/kg	ND	6.2	02/11/18 13:15	
Methylene Chloride	ug/kg	ND	24.9	02/11/18 13:15	
n-Butylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
n-Propylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Naphthalene	ug/kg	ND	6.2	02/11/18 13:15	
o-Xylene	ug/kg	ND	6.2	02/11/18 13:15	
p-Isopropyltoluene	ug/kg	ND	6.2	02/11/18 13:15	
sec-Butylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Styrene	ug/kg	ND	6.2	02/11/18 13:15	
tert-Butylbenzene	ug/kg	ND	6.2	02/11/18 13:15	
Tetrachloroethene	ug/kg	ND	6.2	02/11/18 13:15	
Toluene	ug/kg	ND	6.2	02/11/18 13:15	
trans-1,2-Dichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
trans-1,3-Dichloropropene	ug/kg	ND	6.2	02/11/18 13:15	
Trichloroethene	ug/kg	ND	6.2	02/11/18 13:15	
Trichlorofluoromethane	ug/kg	ND	6.2	02/11/18 13:15	
Vinyl acetate	ug/kg	ND	62.3	02/11/18 13:15	
Vinyl chloride	ug/kg	ND	12.5	02/11/18 13:15	
Xylene (Total)	ug/kg	ND	12.5	02/11/18 13:15	
1,2-Dichloroethane-d4 (S)	%	109	70-132	02/11/18 13:15	
4-Bromofluorobenzene (S)	%	97	70-130	02/11/18 13:15	
Toluene-d8 (S)	%	100	70-130	02/11/18 13:15	

LABORATORY CONTROL SAMPLE: 2205092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	63.5	64.4	102	74-137	
1,1,1-Trichloroethane	ug/kg	63.5	61.5	97	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	63.5	63.7	100	72-141	
1,1,2-Trichloroethane	ug/kg	63.5	64.6	102	78-138	
1,1-Dichloroethane	ug/kg	63.5	61.5	97	69-134	
1,1-Dichloroethene	ug/kg	63.5	63.0	99	67-138	
1,1-Dichloropropene	ug/kg	63.5	60.9	96	69-139	
1,2,3-Trichlorobenzene	ug/kg	63.5	70.4	111	70-146	
1,2,3-Trichloropropane	ug/kg	63.5	71.5	113	69-144	
1,2,4-Trichlorobenzene	ug/kg	63.5	68.5	108	68-148	

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2205092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	63.5	65.9	104	74-137	
1,2-Dibromo-3-chloropropane	ug/kg	63.5	72.1	114	65-140	
1,2-Dibromoethane (EDB)	ug/kg	63.5	64.4	101	77-135	
1,2-Dichlorobenzene	ug/kg	63.5	68.2	107	77-141	
1,2-Dichloroethane	ug/kg	63.5	62.8	99	65-137	
1,2-Dichloropropane	ug/kg	63.5	61.7	97	72-136	
1,3,5-Trimethylbenzene	ug/kg	63.5	64.1	101	76-133	
1,3-Dichlorobenzene	ug/kg	63.5	65.9	104	74-138	
1,3-Dichloropropane	ug/kg	63.5	66.2	104	71-139	
1,4-Dichlorobenzene	ug/kg	63.5	66.9	105	76-138	
1,4-Dioxane (p-Dioxane)	ug/kg	1270	1480	117	54-154	
2,2-Dichloropropane	ug/kg	63.5	62.3	98	68-137	
2-Butanone (MEK)	ug/kg	127	130	103	58-147	
2-Chlorotoluene	ug/kg	63.5	64.0	101	73-139	
2-Hexanone	ug/kg	127	155	123	62-145	
4-Chlorotoluene	ug/kg	63.5	64.5	102	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	127	143	113	64-149	
Acetone	ug/kg	127	113J	89	53-153	
Benzene	ug/kg	63.5	59.6	94	73-135	
Bromobenzene	ug/kg	63.5	65.4	103	75-133	
Bromochloromethane	ug/kg	63.5	60.2	95	73-134	
Bromodichloromethane	ug/kg	63.5	62.4	98	71-135	
Bromoform	ug/kg	63.5	71.5	113	66-141	
Bromomethane	ug/kg	63.5	66.3	105	53-160	
Carbon tetrachloride	ug/kg	63.5	60.6	96	60-145	
Chlorobenzene	ug/kg	63.5	62.4	98	78-130	
Chloroethane	ug/kg	63.5	74.4	117	64-149	
Chloroform	ug/kg	63.5	57.8	91	70-134	
Chloromethane	ug/kg	63.5	60.5	95	52-150	
cis-1,2-Dichloroethene	ug/kg	63.5	63.9	101	70-133	
cis-1,3-Dichloropropene	ug/kg	63.5	64.2	101	68-134	
Dibromochloromethane	ug/kg	63.5	65.0	103	71-138	
Dibromomethane	ug/kg	63.5	61.6	97	74-130	
Dichlorodifluoromethane	ug/kg	63.5	61.2	96	40-160	
Diisopropyl ether	ug/kg	63.5	63.3	100	69-141	
Ethylbenzene	ug/kg	63.5	63.1	99	75-133	
Hexachloro-1,3-butadiene	ug/kg	63.5	66.3	105	68-143	
Isopropylbenzene (Cumene)	ug/kg	63.5	64.8	102	76-143	
m&p-Xylene	ug/kg	127	126	99	75-136	
Methyl-tert-butyl ether	ug/kg	63.5	62.7	99	68-144	
Methylene Chloride	ug/kg	63.5	62.5	99	45-154	
n-Butylbenzene	ug/kg	63.5	65.1	103	72-137	
n-Propylbenzene	ug/kg	63.5	63.8	101	76-136	
Naphthalene	ug/kg	63.5	75.5	119	68-151	
o-Xylene	ug/kg	63.5	64.2	101	76-141	
p-Isopropyltoluene	ug/kg	63.5	64.9	102	76-140	
sec-Butylbenzene	ug/kg	63.5	64.3	101	79-139	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2205092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	63.5	64.7	102	79-137	
tert-Butylbenzene	ug/kg	63.5	59.0	93	74-143	
Tetrachloroethene	ug/kg	63.5	57.6	91	71-138	
Toluene	ug/kg	63.5	61.9	98	74-131	
trans-1,2-Dichloroethene	ug/kg	63.5	62.3	98	67-135	
trans-1,3-Dichloropropene	ug/kg	63.5	63.5	100	65-146	
Trichloroethene	ug/kg	63.5	66.3	105	67-135	
Trichlorofluoromethane	ug/kg	63.5	59.3	94	59-144	
Vinyl acetate	ug/kg	127	72.1	57	40-160	
Vinyl chloride	ug/kg	63.5	66.2	104	56-141	
Xylene (Total)	ug/kg	190	190	100	76-137	
1,2-Dichloroethane-d4 (S)	%			103	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2205207

Parameter	Units	92372510001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	21.5	18.2	84	70-130	
1,1,1-Trichloroethane	ug/kg	ND	21.5	19.3	90	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	21.5	17.7	82	70-130	
1,1,2-Trichloroethane	ug/kg	ND	21.5	18.7	87	70-130	
1,1-Dichloroethane	ug/kg	ND	21.5	19.0	88	70-130	
1,1-Dichloroethene	ug/kg	ND	21.5	18.9	87	49-180	
1,1-Dichloropropene	ug/kg	ND	21.5	18.2	84	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	21.5	12.1	56	70-130	M1
1,2,3-Trichloropropane	ug/kg	ND	21.5	18.8	87	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	21.5	12.2	57	70-130	M1
1,2,4-Trimethylbenzene	ug/kg	ND	21.5	18.7	86	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	21.5	18.5	86	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	21.5	17.7	82	70-130	
1,2-Dichlorobenzene	ug/kg	ND	21.5	15.7	73	70-130	
1,2-Dichloroethane	ug/kg	ND	21.5	18.9	88	70-130	
1,2-Dichloropropane	ug/kg	ND	21.5	18.6	86	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	21.5	18.9	87	70-130	
1,3-Dichlorobenzene	ug/kg	ND	21.5	15.9	74	70-130	
1,3-Dichloropropane	ug/kg	ND	21.5	19.0	88	70-130	
1,4-Dichlorobenzene	ug/kg	ND	21.5	15.5	72	70-130	
1,4-Dioxane (p-Dioxane)	ug/kg	ND	432	453	105	70-130	
2,2-Dichloropropane	ug/kg	ND	21.5	19.5	90	70-130	
2-Butanone (MEK)	ug/kg	ND	43.2	41.2J	95	70-130	
2-Chlorotoluene	ug/kg	ND	21.5	18.4	85	70-130	
2-Hexanone	ug/kg	ND	43.2	38.7J	90	70-130	
4-Chlorotoluene	ug/kg	ND	21.5	17.2	80	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	43.2	40.2J	93	70-130	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2205207

Parameter	Units	92372510001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/kg	ND	43.2	137	318	70-130	M1
Benzene	ug/kg	ND	21.5	18.4	85	50-166	
Bromobenzene	ug/kg	ND	21.5	17.6	81	70-130	
Bromochloromethane	ug/kg	ND	21.5	18.4	85	70-130	
Bromodichloromethane	ug/kg	ND	21.5	18.4	85	70-130	
Bromoform	ug/kg	ND	21.5	18.0	83	70-130	
Bromomethane	ug/kg	ND	21.5	20.1	93	70-130	
Carbon tetrachloride	ug/kg	ND	21.5	19.2	89	70-130	
Chlorobenzene	ug/kg	ND	21.5	17.4	81	43-169	
Chloroethane	ug/kg	ND	21.5	22.3	103	70-130	
Chloroform	ug/kg	ND	21.5	18.8	87	70-130	
Chloromethane	ug/kg	ND	21.5	16.3	75	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	21.5	18.5	86	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	21.5	17.1	79	70-130	
Dibromochloromethane	ug/kg	ND	21.5	17.9	83	70-130	
Dibromomethane	ug/kg	ND	21.5	17.6	82	70-130	
Dichlorodifluoromethane	ug/kg	ND	21.5	15.3	71	70-130	
Diisopropyl ether	ug/kg	ND	21.5	19.4	90	70-130	
Ethylbenzene	ug/kg	ND	21.5	18.5	86	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	21.5	15.6	72	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	21.5	18.8	87	70-130	
m&p-Xylene	ug/kg	ND	43.2	36.6	85	70-130	
Methyl-tert-butyl ether	ug/kg	ND	21.5	19.1	89	70-130	
Methylene Chloride	ug/kg	ND	21.5	17.2J	80	70-130	
n-Butylbenzene	ug/kg	ND	21.5	17.0	79	70-130	
n-Propylbenzene	ug/kg	ND	21.5	19.0	88	70-130	
Naphthalene	ug/kg	ND	21.5	13.8	64	70-130	M1
o-Xylene	ug/kg	ND	21.5	18.2	84	70-130	
p-Isopropyltoluene	ug/kg	ND	21.5	18.2	84	70-130	
sec-Butylbenzene	ug/kg	ND	21.5	19.1	88	70-130	
Styrene	ug/kg	ND	21.5	16.2	75	70-130	
tert-Butylbenzene	ug/kg	ND	21.5	17.8	83	70-130	
Tetrachloroethene	ug/kg	ND	21.5	17.8	82	70-130	
Toluene	ug/kg	ND	21.5	18.9	88	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	21.5	17.9	83	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	21.5	16.0	74	70-130	
Trichloroethene	ug/kg	ND	21.5	18.1	84	49-167	
Trichlorofluoromethane	ug/kg	ND	21.5	18.7	87	70-130	
Vinyl acetate	ug/kg	ND	43.2	13.8J	32	70-130	M1
Vinyl chloride	ug/kg	ND	21.5	18.0	84	70-130	
Xylene (Total)	ug/kg	ND	64.8	54.8	85	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				98	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2205206

Parameter	Units	92372445004 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	40.4J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2205206

Parameter	Units	92372445004 Result	Dup Result	RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	121	118	18	
4-Bromofluorobenzene (S)	%	98	94	19	
Toluene-d8 (S)	%	102	100	16	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397616 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721018

METHOD BLANK: 2205228 Matrix: Solid
Associated Lab Samples: 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.2	02/12/18 10:07	
1,1,1-Trichloroethane	ug/kg	ND	6.2	02/12/18 10:07	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.2	02/12/18 10:07	
1,1,2-Trichloroethane	ug/kg	ND	6.2	02/12/18 10:07	
1,1-Dichloroethane	ug/kg	ND	6.2	02/12/18 10:07	
1,1-Dichloroethene	ug/kg	ND	6.2	02/12/18 10:07	
1,1-Dichloropropene	ug/kg	ND	6.2	02/12/18 10:07	
1,2,3-Trichlorobenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,2,3-Trichloropropane	ug/kg	ND	6.2	02/12/18 10:07	
1,2,4-Trichlorobenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,2,4-Trimethylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.2	02/12/18 10:07	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.2	02/12/18 10:07	
1,2-Dichlorobenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,2-Dichloroethane	ug/kg	ND	6.2	02/12/18 10:07	
1,2-Dichloropropane	ug/kg	ND	6.2	02/12/18 10:07	
1,3,5-Trimethylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,3-Dichlorobenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,3-Dichloropropane	ug/kg	ND	6.2	02/12/18 10:07	
1,4-Dichlorobenzene	ug/kg	ND	6.2	02/12/18 10:07	
1,4-Dioxane (p-Dioxane)	ug/kg	ND	186	02/12/18 10:07	
2,2-Dichloropropane	ug/kg	ND	6.2	02/12/18 10:07	
2-Butanone (MEK)	ug/kg	ND	124	02/12/18 10:07	
2-Chlorotoluene	ug/kg	ND	6.2	02/12/18 10:07	
2-Hexanone	ug/kg	ND	61.9	02/12/18 10:07	
4-Chlorotoluene	ug/kg	ND	6.2	02/12/18 10:07	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	61.9	02/12/18 10:07	
Acetone	ug/kg	ND	124	02/12/18 10:07	
Benzene	ug/kg	ND	6.2	02/12/18 10:07	
Bromobenzene	ug/kg	ND	6.2	02/12/18 10:07	
Bromochloromethane	ug/kg	ND	6.2	02/12/18 10:07	
Bromodichloromethane	ug/kg	ND	6.2	02/12/18 10:07	
Bromoform	ug/kg	ND	6.2	02/12/18 10:07	
Bromomethane	ug/kg	ND	12.4	02/12/18 10:07	
Carbon tetrachloride	ug/kg	ND	6.2	02/12/18 10:07	
Chlorobenzene	ug/kg	ND	6.2	02/12/18 10:07	
Chloroethane	ug/kg	ND	12.4	02/12/18 10:07	
Chloroform	ug/kg	ND	6.2	02/12/18 10:07	
Chloromethane	ug/kg	ND	12.4	02/12/18 10:07	
cis-1,2-Dichloroethene	ug/kg	ND	6.2	02/12/18 10:07	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2205228 Matrix: Solid

Associated Lab Samples: 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	6.2	02/12/18 10:07	
Dibromochloromethane	ug/kg	ND	6.2	02/12/18 10:07	
Dibromomethane	ug/kg	ND	6.2	02/12/18 10:07	
Dichlorodifluoromethane	ug/kg	ND	12.4	02/12/18 10:07	
Diisopropyl ether	ug/kg	ND	6.2	02/12/18 10:07	
Ethylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
Hexachloro-1,3-butadiene	ug/kg	ND	6.2	02/12/18 10:07	
Isopropylbenzene (Cumene)	ug/kg	ND	6.2	02/12/18 10:07	
m&p-Xylene	ug/kg	ND	12.4	02/12/18 10:07	
Methyl-tert-butyl ether	ug/kg	ND	6.2	02/12/18 10:07	
Methylene Chloride	ug/kg	ND	24.8	02/12/18 10:07	
n-Butylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
n-Propylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
Naphthalene	ug/kg	ND	6.2	02/12/18 10:07	
o-Xylene	ug/kg	ND	6.2	02/12/18 10:07	
p-Isopropyltoluene	ug/kg	ND	6.2	02/12/18 10:07	
sec-Butylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
Styrene	ug/kg	ND	6.2	02/12/18 10:07	
tert-Butylbenzene	ug/kg	ND	6.2	02/12/18 10:07	
Tetrachloroethene	ug/kg	ND	6.2	02/12/18 10:07	
Toluene	ug/kg	ND	6.2	02/12/18 10:07	
trans-1,2-Dichloroethene	ug/kg	ND	6.2	02/12/18 10:07	
trans-1,3-Dichloropropene	ug/kg	ND	6.2	02/12/18 10:07	
Trichloroethene	ug/kg	ND	6.2	02/12/18 10:07	
Trichlorofluoromethane	ug/kg	ND	6.2	02/12/18 10:07	
Vinyl acetate	ug/kg	ND	61.9	02/12/18 10:07	
Vinyl chloride	ug/kg	ND	12.4	02/12/18 10:07	
Xylene (Total)	ug/kg	ND	12.4	02/12/18 10:07	
1,2-Dichloroethane-d4 (S)	%	115	70-132	02/12/18 10:07	
4-Bromofluorobenzene (S)	%	95	70-130	02/12/18 10:07	
Toluene-d8 (S)	%	101	70-130	02/12/18 10:07	

LABORATORY CONTROL SAMPLE: 2205229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	55.6	56.2	101	74-137	
1,1,1-Trichloroethane	ug/kg	55.6	56.7	102	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	55.6	45.6	82	72-141	
1,1,2-Trichloroethane	ug/kg	55.6	55.2	99	78-138	
1,1-Dichloroethane	ug/kg	55.6	56.2	101	69-134	
1,1-Dichloroethene	ug/kg	55.6	58.7	106	67-138	
1,1-Dichloropropene	ug/kg	55.6	51.5	93	69-139	
1,2,3-Trichlorobenzene	ug/kg	55.6	52.1	94	70-146	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2205229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	55.6	56.0	101	69-144	
1,2,4-Trichlorobenzene	ug/kg	55.6	54.5	98	68-148	
1,2,4-Trimethylbenzene	ug/kg	55.6	52.9	95	74-137	
1,2-Dibromo-3-chloropropane	ug/kg	55.6	57.3	103	65-140	
1,2-Dibromoethane (EDB)	ug/kg	55.6	52.9	95	77-135	
1,2-Dichlorobenzene	ug/kg	55.6	51.1	92	77-141	
1,2-Dichloroethane	ug/kg	55.6	60.2	108	65-137	
1,2-Dichloropropane	ug/kg	55.6	53.6	96	72-136	
1,3,5-Trimethylbenzene	ug/kg	55.6	51.7	93	76-133	
1,3-Dichlorobenzene	ug/kg	55.6	51.7	93	74-138	
1,3-Dichloropropane	ug/kg	55.6	52.7	95	71-139	
1,4-Dichlorobenzene	ug/kg	55.6	53.2	96	76-138	
1,4-Dioxane (p-Dioxane)	ug/kg	1110	947	85	54-154	
2,2-Dichloropropane	ug/kg	55.6	58.9	106	68-137	
2-Butanone (MEK)	ug/kg	111	127	115	58-147	
2-Chlorotoluene	ug/kg	55.6	53.6	97	73-139	
2-Hexanone	ug/kg	111	112	101	62-145	
4-Chlorotoluene	ug/kg	55.6	52.8	95	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	111	109	99	64-149	
Acetone	ug/kg	111	131	118	53-153	
Benzene	ug/kg	55.6	50.0	90	73-135	
Bromobenzene	ug/kg	55.6	53.3	96	75-133	
Bromochloromethane	ug/kg	55.6	53.7	97	73-134	
Bromodichloromethane	ug/kg	55.6	55.7	100	71-135	
Bromoform	ug/kg	55.6	55.8	100	66-141	
Bromomethane	ug/kg	55.6	56.8	102	53-160	
Carbon tetrachloride	ug/kg	55.6	58.7	106	60-145	
Chlorobenzene	ug/kg	55.6	51.3	92	78-130	
Chloroethane	ug/kg	55.6	65.1	117	64-149	
Chloroform	ug/kg	55.6	52.6	95	70-134	
Chloromethane	ug/kg	55.6	58.0	104	52-150	
cis-1,2-Dichloroethene	ug/kg	55.6	57.5	104	70-133	
cis-1,3-Dichloropropene	ug/kg	55.6	54.5	98	68-134	
Dibromochloromethane	ug/kg	55.6	56.9	102	71-138	
Dibromomethane	ug/kg	55.6	52.5	94	74-130	
Dichlorodifluoromethane	ug/kg	55.6	59.0	106	40-160	
Diisopropyl ether	ug/kg	55.6	62.6	113	69-141	
Ethylbenzene	ug/kg	55.6	51.5	93	75-133	
Hexachloro-1,3-butadiene	ug/kg	55.6	50.2	90	68-143	
Isopropylbenzene (Cumene)	ug/kg	55.6	53.2	96	76-143	
m&p-Xylene	ug/kg	111	108	97	75-136	
Methyl-tert-butyl ether	ug/kg	55.6	58.1	105	68-144	
Methylene Chloride	ug/kg	55.6	64.3	116	45-154	
n-Butylbenzene	ug/kg	55.6	51.7	93	72-137	
n-Propylbenzene	ug/kg	55.6	53.5	96	76-136	
Naphthalene	ug/kg	55.6	51.9	93	68-151	
o-Xylene	ug/kg	55.6	53.9	97	76-141	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2205229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/kg	55.6	50.9	92	76-140	
sec-Butylbenzene	ug/kg	55.6	52.5	95	79-139	
Styrene	ug/kg	55.6	51.8	93	79-137	
tert-Butylbenzene	ug/kg	55.6	48.7	88	74-143	
Tetrachloroethene	ug/kg	55.6	49.8	90	71-138	
Toluene	ug/kg	55.6	50.2	90	74-131	
trans-1,2-Dichloroethene	ug/kg	55.6	60.0	108	67-135	
trans-1,3-Dichloropropene	ug/kg	55.6	56.7	102	65-146	
Trichloroethene	ug/kg	55.6	55.8	100	67-135	
Trichlorofluoromethane	ug/kg	55.6	62.7	113	59-144	
Vinyl acetate	ug/kg	111	104	94	40-160	
Vinyl chloride	ug/kg	55.6	59.8	108	56-141	
Xylene (Total)	ug/kg	167	162	97	76-137	
1,2-Dichloroethane-d4 (S)	%			113	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2206054

Parameter	Units	92372782003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg		19.3	19.9	102	70-130	
1,1,1-Trichloroethane	ug/kg		19.3	20.1	104	70-130	
1,1,2,2-Tetrachloroethane	ug/kg		19.3	25.9	134	70-130	M1
1,1,2-Trichloroethane	ug/kg		19.3	24.4	126	70-130	
1,1-Dichloroethane	ug/kg		19.3	21.2	109	70-130	
1,1-Dichloroethene	ug/kg		19.3	20.1	104	49-180	
1,1-Dichloropropene	ug/kg		19.3	20.1	104	70-130	
1,2,3-Trichlorobenzene	ug/kg		19.3	19.7	102	70-130	
1,2,3-Trichloropropane	ug/kg		19.3	26.6	137	70-130	M1
1,2,4-Trichlorobenzene	ug/kg		19.3	18.9	98	70-130	
1,2,4-Trimethylbenzene	ug/kg		19.3	19.0	98	70-130	
1,2-Dibromo-3-chloropropane	ug/kg		19.3	29.0	150	70-130	M1
1,2-Dibromoethane (EDB)	ug/kg		19.3	23.7	122	70-130	
1,2-Dichlorobenzene	ug/kg		19.3	19.8	102	70-130	
1,2-Dichloroethane	ug/kg		19.3	23.3	120	70-130	
1,2-Dichloropropane	ug/kg		19.3	20.6	107	70-130	
1,3,5-Trimethylbenzene	ug/kg		19.3	18.7	96	70-130	
1,3-Dichlorobenzene	ug/kg		19.3	19.1	99	70-130	
1,3-Dichloropropane	ug/kg		19.3	23.7	122	70-130	
1,4-Dichlorobenzene	ug/kg		19.3	18.9	98	70-130	
1,4-Dioxane (p-Dioxane)	ug/kg		388	700	181	70-130	M1
2,2-Dichloropropane	ug/kg		19.3	19.9	103	70-130	
2-Butanone (MEK)	ug/kg		38.8	69.7J	166	70-130	M1
2-Chlorotoluene	ug/kg		19.3	18.7	97	70-130	
2-Hexanone	ug/kg		38.8	73.3	189	70-130	M1

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2206054

Parameter	Units	92372782003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Chlorotoluene	ug/kg		19.3	18.8	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg		38.8	64.7	167	70-130	M1
Acetone	ug/kg		38.8	75.2J	96	70-130	
Benzene	ug/kg	ND	19.3	19.2	99	50-166	
Bromobenzene	ug/kg		19.3	20.3	105	70-130	
Bromochloromethane	ug/kg		19.3	23.7	122	70-130	
Bromodichloromethane	ug/kg		19.3	20.5	106	70-130	
Bromoform	ug/kg		19.3	23.7	122	70-130	
Bromomethane	ug/kg		19.3	20.3	105	70-130	
Carbon tetrachloride	ug/kg		19.3	18.9	97	70-130	
Chlorobenzene	ug/kg		19.3	19.5	101	43-169	
Chloroethane	ug/kg		19.3	23.5	121	70-130	
Chloroform	ug/kg		19.3	20.7	107	70-130	
Chloromethane	ug/kg		19.3	17.1	88	70-130	
cis-1,2-Dichloroethene	ug/kg		19.3	21.5	111	70-130	
cis-1,3-Dichloropropene	ug/kg		19.3	20.7	107	70-130	
Dibromochloromethane	ug/kg		19.3	21.2	109	70-130	
Dibromomethane	ug/kg		19.3	23.0	119	70-130	
Dichlorodifluoromethane	ug/kg		19.3	15.1	78	70-130	
Diisopropyl ether	ug/kg		19.3	22.5	116	70-130	
Ethylbenzene	ug/kg	ND	19.3	19.2	99	70-130	
Hexachloro-1,3-butadiene	ug/kg		19.3	15.3	79	70-130	
Isopropylbenzene (Cumene)	ug/kg		19.3	18.9	97	70-130	
m&p-Xylene	ug/kg		38.8	38.8	100	70-130	
Methyl-tert-butyl ether	ug/kg	ND	19.3	26.4	136	70-130	M1
Methylene Chloride	ug/kg		19.3	18.8J	66	70-130	M1
n-Butylbenzene	ug/kg		19.3	17.7	92	70-130	
n-Propylbenzene	ug/kg		19.3	18.9	97	70-130	
Naphthalene	ug/kg		19.3	26.6	137	70-130	M1
o-Xylene	ug/kg		19.3	19.6	101	70-130	
p-Isopropyltoluene	ug/kg		19.3	18.0	93	70-130	
sec-Butylbenzene	ug/kg		19.3	17.8	92	70-130	
Styrene	ug/kg		19.3	9.1	47	70-130	M1
tert-Butylbenzene	ug/kg		19.3	16.4	85	70-130	
Tetrachloroethene	ug/kg		19.3	18.0	93	70-130	
Toluene	ug/kg	ND	19.3	20.2	104	52-163	
trans-1,2-Dichloroethene	ug/kg		19.3	21.0	108	70-130	
trans-1,3-Dichloropropene	ug/kg		19.3	22.0	114	70-130	
Trichloroethene	ug/kg		19.3	19.5	101	49-167	
Trichlorofluoromethane	ug/kg		19.3	18.9	98	70-130	
Vinyl acetate	ug/kg		38.8	47.4J	122	70-130	
Vinyl chloride	ug/kg		19.3	19.3	99	70-130	
Xylene (Total)	ug/kg	ND	58.1	58.5	101	70-130	
1,2-Dichloroethane-d4 (S)	%				119	70-132	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2206053

Parameter	Units	92372721005 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	22.6J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2206053

Parameter	Units	92372721005 Result	Dup Result	RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	112	126	40	
4-Bromofluorobenzene (S)	%	95	90	23	
Toluene-d8 (S)	%	99	98	28	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397785
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92372721015

METHOD BLANK: 2206182
Matrix: Solid
Associated Lab Samples: 92372721015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.4	02/13/18 11:32	
1,1,1-Trichloroethane	ug/kg	ND	5.4	02/13/18 11:32	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.4	02/13/18 11:32	
1,1,2-Trichloroethane	ug/kg	ND	5.4	02/13/18 11:32	
1,1-Dichloroethane	ug/kg	ND	5.4	02/13/18 11:32	
1,1-Dichloroethene	ug/kg	ND	5.4	02/13/18 11:32	
1,1-Dichloropropene	ug/kg	ND	5.4	02/13/18 11:32	
1,2,3-Trichlorobenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,2,3-Trichloropropane	ug/kg	ND	5.4	02/13/18 11:32	
1,2,4-Trichlorobenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,2,4-Trimethylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.4	02/13/18 11:32	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.4	02/13/18 11:32	
1,2-Dichlorobenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,2-Dichloroethane	ug/kg	ND	5.4	02/13/18 11:32	
1,2-Dichloropropane	ug/kg	ND	5.4	02/13/18 11:32	
1,3,5-Trimethylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,3-Dichlorobenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,3-Dichloropropane	ug/kg	ND	5.4	02/13/18 11:32	
1,4-Dichlorobenzene	ug/kg	ND	5.4	02/13/18 11:32	
1,4-Dioxane (p-Dioxane)	ug/kg	ND	161	02/13/18 11:32	
2,2-Dichloropropane	ug/kg	ND	5.4	02/13/18 11:32	
2-Butanone (MEK)	ug/kg	ND	108	02/13/18 11:32	
2-Chlorotoluene	ug/kg	ND	5.4	02/13/18 11:32	
2-Hexanone	ug/kg	ND	53.8	02/13/18 11:32	
4-Chlorotoluene	ug/kg	ND	5.4	02/13/18 11:32	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	53.8	02/13/18 11:32	
Acetone	ug/kg	ND	108	02/13/18 11:32	
Benzene	ug/kg	ND	5.4	02/13/18 11:32	
Bromobenzene	ug/kg	ND	5.4	02/13/18 11:32	
Bromochloromethane	ug/kg	ND	5.4	02/13/18 11:32	
Bromodichloromethane	ug/kg	ND	5.4	02/13/18 11:32	
Bromoform	ug/kg	ND	5.4	02/13/18 11:32	
Bromomethane	ug/kg	ND	10.8	02/13/18 11:32	
Carbon tetrachloride	ug/kg	ND	5.4	02/13/18 11:32	
Chlorobenzene	ug/kg	ND	5.4	02/13/18 11:32	
Chloroethane	ug/kg	ND	10.8	02/13/18 11:32	
Chloroform	ug/kg	ND	5.4	02/13/18 11:32	
Chloromethane	ug/kg	ND	10.8	02/13/18 11:32	
cis-1,2-Dichloroethene	ug/kg	ND	5.4	02/13/18 11:32	
cis-1,3-Dichloropropene	ug/kg	ND	5.4	02/13/18 11:32	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2206182 Matrix: Solid
Associated Lab Samples: 92372721015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.4	02/13/18 11:32	
Dibromomethane	ug/kg	ND	5.4	02/13/18 11:32	
Dichlorodifluoromethane	ug/kg	ND	10.8	02/13/18 11:32	
Diisopropyl ether	ug/kg	ND	5.4	02/13/18 11:32	
Ethylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
Hexachloro-1,3-butadiene	ug/kg	ND	5.4	02/13/18 11:32	
Isopropylbenzene (Cumene)	ug/kg	ND	5.4	02/13/18 11:32	
m&p-Xylene	ug/kg	ND	10.8	02/13/18 11:32	
Methyl-tert-butyl ether	ug/kg	ND	5.4	02/13/18 11:32	
Methylene Chloride	ug/kg	ND	21.5	02/13/18 11:32	
n-Butylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
n-Propylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
Naphthalene	ug/kg	ND	5.4	02/13/18 11:32	
o-Xylene	ug/kg	ND	5.4	02/13/18 11:32	
p-Isopropyltoluene	ug/kg	ND	5.4	02/13/18 11:32	
sec-Butylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
Styrene	ug/kg	ND	5.4	02/13/18 11:32	
tert-Butylbenzene	ug/kg	ND	5.4	02/13/18 11:32	
Tetrachloroethene	ug/kg	ND	5.4	02/13/18 11:32	
Toluene	ug/kg	ND	5.4	02/13/18 11:32	
trans-1,2-Dichloroethene	ug/kg	ND	5.4	02/13/18 11:32	
trans-1,3-Dichloropropene	ug/kg	ND	5.4	02/13/18 11:32	
Trichloroethene	ug/kg	ND	5.4	02/13/18 11:32	
Trichlorofluoromethane	ug/kg	ND	5.4	02/13/18 11:32	
Vinyl acetate	ug/kg	ND	53.8	02/13/18 11:32	
Vinyl chloride	ug/kg	ND	10.8	02/13/18 11:32	
Xylene (Total)	ug/kg	ND	10.8	02/13/18 11:32	
1,2-Dichloroethane-d4 (S)	%	97	70-132	02/13/18 11:32	
4-Bromofluorobenzene (S)	%	97	70-130	02/13/18 11:32	
Toluene-d8 (S)	%	100	70-130	02/13/18 11:32	

LABORATORY CONTROL SAMPLE: 2206183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	54	51.8	96	74-137	
1,1,1-Trichloroethane	ug/kg	54	52.0	96	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	54	49.2	91	72-141	
1,1,2-Trichloroethane	ug/kg	54	52.7	98	78-138	
1,1-Dichloroethane	ug/kg	54	51.3	95	69-134	
1,1-Dichloroethene	ug/kg	54	52.4	97	67-138	
1,1-Dichloropropene	ug/kg	54	51.2	95	69-139	
1,2,3-Trichlorobenzene	ug/kg	54	52.2	97	70-146	
1,2,3-Trichloropropane	ug/kg	54	50.2	93	69-144	
1,2,4-Trichlorobenzene	ug/kg	54	52.2	97	68-148	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2206183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	54	52.4	97	74-137	
1,2-Dibromo-3-chloropropane	ug/kg	54	48.9	91	65-140	
1,2-Dibromoethane (EDB)	ug/kg	54	52.4	97	77-135	
1,2-Dichlorobenzene	ug/kg	54	51.6	96	77-141	
1,2-Dichloroethane	ug/kg	54	50.2	93	65-137	
1,2-Dichloropropane	ug/kg	54	52.5	97	72-136	
1,3,5-Trimethylbenzene	ug/kg	54	52.4	97	76-133	
1,3-Dichlorobenzene	ug/kg	54	51.9	96	74-138	
1,3-Dichloropropane	ug/kg	54	53.0	98	71-139	
1,4-Dichlorobenzene	ug/kg	54	51.2	95	76-138	
1,4-Dioxane (p-Dioxane)	ug/kg	1080	1140	105	54-154	
2,2-Dichloropropane	ug/kg	54	51.5	95	68-137	
2-Butanone (MEK)	ug/kg	108	98.7J	91	58-147	
2-Chlorotoluene	ug/kg	54	51.7	96	73-139	
2-Hexanone	ug/kg	108	106	99	62-145	
4-Chlorotoluene	ug/kg	54	51.5	95	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	108	105	97	64-149	
Acetone	ug/kg	108	95J	88	53-153	
Benzene	ug/kg	54	51.4	95	73-135	
Bromobenzene	ug/kg	54	52.4	97	75-133	
Bromochloromethane	ug/kg	54	52.5	97	73-134	
Bromodichloromethane	ug/kg	54	52.4	97	71-135	
Bromoform	ug/kg	54	53.1	98	66-141	
Bromomethane	ug/kg	54	60.7	112	53-160	
Carbon tetrachloride	ug/kg	54	52.3	97	60-145	
Chlorobenzene	ug/kg	54	51.4	95	78-130	
Chloroethane	ug/kg	54	62.5	116	64-149	
Chloroform	ug/kg	54	50.6	94	70-134	
Chloromethane	ug/kg	54	50.1	93	52-150	
cis-1,2-Dichloroethene	ug/kg	54	53.6	99	70-133	
cis-1,3-Dichloropropene	ug/kg	54	54.0	100	68-134	
Dibromochloromethane	ug/kg	54	52.1	96	71-138	
Dibromomethane	ug/kg	54	52.8	98	74-130	
Dichlorodifluoromethane	ug/kg	54	49.0	91	40-160	
Diisopropyl ether	ug/kg	54	51.6	96	69-141	
Ethylbenzene	ug/kg	54	52.9	98	75-133	
Hexachloro-1,3-butadiene	ug/kg	54	51.9	96	68-143	
Isopropylbenzene (Cumene)	ug/kg	54	53.2	98	76-143	
m&p-Xylene	ug/kg	108	105	98	75-136	
Methyl-tert-butyl ether	ug/kg	54	51.4	95	68-144	
Methylene Chloride	ug/kg	54	48.9	91	45-154	
n-Butylbenzene	ug/kg	54	51.5	95	72-137	
n-Propylbenzene	ug/kg	54	52.3	97	76-136	
Naphthalene	ug/kg	54	53.7	99	68-151	
o-Xylene	ug/kg	54	52.6	97	76-141	
p-Isopropyltoluene	ug/kg	54	52.0	96	76-140	
sec-Butylbenzene	ug/kg	54	51.9	96	79-139	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2206183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	54	52.1	97	79-137	
tert-Butylbenzene	ug/kg	54	47.0	87	74-143	
Tetrachloroethene	ug/kg	54	49.2	91	71-138	
Toluene	ug/kg	54	53.2	99	74-131	
trans-1,2-Dichloroethene	ug/kg	54	53.3	99	67-135	
trans-1,3-Dichloropropene	ug/kg	54	52.5	97	65-146	
Trichloroethene	ug/kg	54	52.9	98	67-135	
Trichlorofluoromethane	ug/kg	54	51.2	95	59-144	
Vinyl acetate	ug/kg	108	52.7J	49	40-160	
Vinyl chloride	ug/kg	54	55.3	102	56-141	
Xylene (Total)	ug/kg	162	158	97	76-137	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2207264

Parameter	Units	92373070001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	21.5	21.0	98	70-130	
1,1,1-Trichloroethane	ug/kg	ND	21.5	21.8	101	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	21.5	20.6	96	70-130	
1,1,2-Trichloroethane	ug/kg	ND	21.5	21.0	98	70-130	
1,1-Dichloroethane	ug/kg	ND	21.5	21.8	101	70-130	
1,1-Dichloroethene	ug/kg	ND	21.5	22.1	103	49-180	
1,1-Dichloropropene	ug/kg	ND	21.5	21.4	99	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	21.5	18.7	87	70-130	
1,2,3-Trichloropropane	ug/kg	ND	21.5	20.6	96	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	21.5	18.5	86	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	21.5	22.2	103	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	21.5	19.3	90	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	21.5	20.8	97	70-130	
1,2-Dichlorobenzene	ug/kg	ND	21.5	20.8	97	70-130	
1,2-Dichloroethane	ug/kg	ND	21.5	20.5	95	70-130	
1,2-Dichloropropane	ug/kg	ND	21.5	21.4	100	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	21.5	22.1	103	70-130	
1,3-Dichlorobenzene	ug/kg	ND	21.5	21.1	98	70-130	
1,3-Dichloropropane	ug/kg	ND	21.5	21.8	101	70-130	
1,4-Dichlorobenzene	ug/kg	ND	21.5	20.9	97	70-130	
1,4-Dioxane (p-Dioxane)	ug/kg			424			
2,2-Dichloropropane	ug/kg	ND	21.5	21.3	99	70-130	
2-Butanone (MEK)	ug/kg	ND	43.1	37.8J	88	70-130	
2-Chlorotoluene	ug/kg	ND	21.5	21.4	99	70-130	
2-Hexanone	ug/kg	ND	43.1	38.8J	90	70-130	
4-Chlorotoluene	ug/kg	ND	21.5	21.7	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	43.1	40.5J	94	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2207264

Parameter	Units	92373070001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/kg	ND	43.1	90.8J	168	70-130	M1
Benzene	ug/kg	ND	21.5	21.6	100	50-166	
Bromobenzene	ug/kg	ND	21.5	21.8	101	70-130	
Bromochloromethane	ug/kg	ND	21.5	20.7	96	70-130	
Bromodichloromethane	ug/kg	ND	21.5	21.1	98	70-130	
Bromoform	ug/kg	ND	21.5	20.9	97	70-130	
Bromomethane	ug/kg	ND	21.5	21.6	100	70-130	
Carbon tetrachloride	ug/kg	ND	21.5	22.1	103	70-130	
Chlorobenzene	ug/kg	ND	21.5	21.8	101	43-169	
Chloroethane	ug/kg	ND	21.5	26.7	124	70-130	
Chloroform	ug/kg	ND	21.5	20.3	94	70-130	
Chloromethane	ug/kg	ND	21.5	20.4	94	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	21.5	21.8	101	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	21.5	21.3	99	70-130	
Dibromochloromethane	ug/kg	ND	21.5	20.7	96	70-130	
Dibromomethane	ug/kg	ND	21.5	21.2	99	70-130	
Dichlorodifluoromethane	ug/kg	ND	21.5	20.6	96	70-130	
Diisopropyl ether	ug/kg	ND	21.5	20.8	97	70-130	
Ethylbenzene	ug/kg	ND	21.5	22.0	102	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	21.5	19.1	89	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	21.5	22.2	103	70-130	
m&p-Xylene	ug/kg	ND	43.1	43.6	101	70-130	
Methyl-tert-butyl ether	ug/kg	ND	21.5	20.5	95	70-130	
Methylene Chloride	ug/kg	ND	21.5	19.5J	91	70-130	
n-Butylbenzene	ug/kg	ND	21.5	20.9	97	70-130	
n-Propylbenzene	ug/kg	ND	21.5	22.4	104	70-130	
Naphthalene	ug/kg	ND	21.5	18.8	87	70-130	
o-Xylene	ug/kg	ND	21.5	21.4	99	70-130	
p-Isopropyltoluene	ug/kg	ND	21.5	21.6	100	70-130	
sec-Butylbenzene	ug/kg	ND	21.5	21.8	101	70-130	
Styrene	ug/kg	ND	21.5	20.6	95	70-130	
tert-Butylbenzene	ug/kg	ND	21.5	20.1	93	70-130	
Tetrachloroethene	ug/kg	ND	21.5	21.5	100	70-130	
Toluene	ug/kg	ND	21.5	22.0	102	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	21.5	22.3	104	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	21.5	20.7	96	70-130	
Trichloroethene	ug/kg	ND	21.5	21.9	102	49-167	
Trichlorofluoromethane	ug/kg	ND	21.5	21.9	102	70-130	
Vinyl acetate	ug/kg	ND	43.1	24.4J	57	70-130	M1
Vinyl chloride	ug/kg	ND	21.5	22.7	105	70-130	
Xylene (Total)	ug/kg	ND	64.6	65.1	101	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				101	70-130	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2207263

Parameter	Units	92372721015 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	239	36.4J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2207263

Parameter	Units	92372721015 Result	Dup Result	RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	119	107	5	
4-Bromofluorobenzene (S)	%	100	101	6	
Toluene-d8 (S)	%	102	99	2	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397991 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV RVE
Associated Lab Samples: 92372721020, 92372721022

METHOD BLANK: 2207313 Matrix: Water
Associated Lab Samples: 92372721020, 92372721022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/16/18 12:27	
1,2-Dichlorobenzene	ug/L	ND	10.0	02/16/18 12:27	
1,3-Dichlorobenzene	ug/L	ND	10.0	02/16/18 12:27	
1,4-Dichlorobenzene	ug/L	ND	10.0	02/16/18 12:27	
1-Methylnaphthalene	ug/L	ND	10.0	02/16/18 12:27	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	02/16/18 12:27	
2,4,5-Trichlorophenol	ug/L	ND	10.0	02/16/18 12:27	
2,4,6-Trichlorophenol	ug/L	ND	10.0	02/16/18 12:27	
2,4-Dichlorophenol	ug/L	ND	10.0	02/16/18 12:27	
2,4-Dimethylphenol	ug/L	ND	10.0	02/16/18 12:27	
2,4-Dinitrophenol	ug/L	ND	50.0	02/16/18 12:27	
2,4-Dinitrotoluene	ug/L	ND	10.0	02/16/18 12:27	
2,6-Dinitrotoluene	ug/L	ND	10.0	02/16/18 12:27	
2-Chloronaphthalene	ug/L	ND	10.0	02/16/18 12:27	
2-Chlorophenol	ug/L	ND	10.0	02/16/18 12:27	
2-Methylnaphthalene	ug/L	ND	10.0	02/16/18 12:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/16/18 12:27	
2-Nitroaniline	ug/L	ND	50.0	02/16/18 12:27	
2-Nitrophenol	ug/L	ND	10.0	02/16/18 12:27	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	02/16/18 12:27	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	02/16/18 12:27	
3-Nitroaniline	ug/L	ND	50.0	02/16/18 12:27	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	02/16/18 12:27	
4-Bromophenylphenyl ether	ug/L	ND	10.0	02/16/18 12:27	
4-Chloro-3-methylphenol	ug/L	ND	20.0	02/16/18 12:27	
4-Chloroaniline	ug/L	ND	20.0	02/16/18 12:27	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	02/16/18 12:27	
4-Nitroaniline	ug/L	ND	20.0	02/16/18 12:27	
4-Nitrophenol	ug/L	ND	50.0	02/16/18 12:27	
Acenaphthene	ug/L	ND	10.0	02/16/18 12:27	
Acenaphthylene	ug/L	ND	10.0	02/16/18 12:27	
Aniline	ug/L	ND	10.0	02/16/18 12:27	
Anthracene	ug/L	ND	10.0	02/16/18 12:27	
Benzo(a)anthracene	ug/L	ND	10.0	02/16/18 12:27	
Benzo(a)pyrene	ug/L	ND	10.0	02/16/18 12:27	
Benzo(b)fluoranthene	ug/L	ND	10.0	02/16/18 12:27	
Benzo(g,h,i)perylene	ug/L	ND	10.0	02/16/18 12:27	
Benzo(k)fluoranthene	ug/L	ND	10.0	02/16/18 12:27	
Benzoic Acid	ug/L	ND	50.0	02/16/18 12:27	
Benzyl alcohol	ug/L	ND	20.0	02/16/18 12:27	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	02/16/18 12:27	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2207313 Matrix: Water
Associated Lab Samples: 92372721020, 92372721022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	02/16/18 12:27	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	02/16/18 12:27	
Butylbenzylphthalate	ug/L	ND	10.0	02/16/18 12:27	
Chrysene	ug/L	ND	10.0	02/16/18 12:27	
Di-n-butylphthalate	ug/L	ND	10.0	02/16/18 12:27	
Di-n-octylphthalate	ug/L	ND	10.0	02/16/18 12:27	
Dibenz(a,h)anthracene	ug/L	ND	10.0	02/16/18 12:27	
Dibenzofuran	ug/L	ND	10.0	02/16/18 12:27	
Diethylphthalate	ug/L	ND	10.0	02/16/18 12:27	
Dimethylphthalate	ug/L	ND	10.0	02/16/18 12:27	
Fluoranthene	ug/L	ND	10.0	02/16/18 12:27	
Fluorene	ug/L	ND	10.0	02/16/18 12:27	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/16/18 12:27	
Hexachlorobenzene	ug/L	ND	10.0	02/16/18 12:27	
Hexachlorocyclopentadiene	ug/L	ND	10.0	02/16/18 12:27	
Hexachloroethane	ug/L	ND	10.0	02/16/18 12:27	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	02/16/18 12:27	
Isophorone	ug/L	ND	10.0	02/16/18 12:27	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	02/16/18 12:27	
N-Nitrosodimethylamine	ug/L	ND	10.0	02/16/18 12:27	
N-Nitrosodiphenylamine	ug/L	ND	10.0	02/16/18 12:27	
Naphthalene	ug/L	ND	10.0	02/16/18 12:27	
Nitrobenzene	ug/L	ND	10.0	02/16/18 12:27	
Pentachlorophenol	ug/L	ND	25.0	02/16/18 12:27	
Phenanthrene	ug/L	ND	10.0	02/16/18 12:27	
Phenol	ug/L	ND	10.0	02/16/18 12:27	
Pyrene	ug/L	ND	10.0	02/16/18 12:27	
2,4,6-Tribromophenol (S)	%	80	31-170	02/16/18 12:27	
2-Fluorobiphenyl (S)	%	76	45-139	02/16/18 12:27	
2-Fluorophenol (S)	%	55	13-118	02/16/18 12:27	
Nitrobenzene-d5 (S)	%	74	40-121	02/16/18 12:27	
Phenol-d6 (S)	%	47	18-105	02/16/18 12:27	
Terphenyl-d14 (S)	%	86	48-146	02/16/18 12:27	

LABORATORY CONTROL SAMPLE: 2207314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	29.3	59	31-120	
1,2-Dichlorobenzene	ug/L	50	30.5	61	38-120	
1,3-Dichlorobenzene	ug/L	50	27.5	55	30-122	
1,4-Dichlorobenzene	ug/L	50	28.9	58	37-120	
1-Methylnaphthalene	ug/L	50	34.1	68	34-113	
2,2'-Oxybis(1-chloropropane)	ug/L	50	30.7	61	18-120	
2,4,5-Trichlorophenol	ug/L	50	39.8	80	43-113	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2207314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	41.0	82	42-120	
2,4-Dichlorophenol	ug/L	50	38.9	78	30-120	
2,4-Dimethylphenol	ug/L	50	36.6	73	29-111	
2,4-Dinitrophenol	ug/L	250	206	83	19-132	
2,4-Dinitrotoluene	ug/L	50	40.2	80	58-128	
2,6-Dinitrotoluene	ug/L	50	39.9	80	54-129	
2-Chloronaphthalene	ug/L	50	34.7	69	43-117	
2-Chlorophenol	ug/L	50	36.8	74	37-120	
2-Methylnaphthalene	ug/L	50	33.7	67	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.0	70	31-120	
2-Nitroaniline	ug/L	100	78.7	79	48-121	
2-Nitrophenol	ug/L	50	38.9	78	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	32.6	65	23-120	
3,3'-Dichlorobenzidine	ug/L	100	81.8	82	10-154	
3-Nitroaniline	ug/L	100	77.9	78	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	91.9	92	44-124	
4-Bromophenylphenyl ether	ug/L	50	41.8	84	34-113	
4-Chloro-3-methylphenol	ug/L	100	79.9	80	31-110	
4-Chloroaniline	ug/L	100	75.3	75	20-120	
4-Chlorophenylphenyl ether	ug/L	50	38.9	78	34-116	
4-Nitroaniline	ug/L	100	78.8	79	46-128	
4-Nitrophenol	ug/L	250	123	49	11-120	
Acenaphthene	ug/L	50	36.8	74	48-114	
Acenaphthylene	ug/L	50	37.8	76	48-112	
Aniline	ug/L	50	26.6	53	26-120	
Anthracene	ug/L	50	39.9	80	57-118	
Benzo(a)anthracene	ug/L	50	40.5	81	56-121	
Benzo(a)pyrene	ug/L	50	41.0	82	55-127	
Benzo(b)fluoranthene	ug/L	50	42.4	85	53-128	
Benzo(g,h,i)perylene	ug/L	50	43.9	88	54-125	
Benzo(k)fluoranthene	ug/L	50	41.6	83	51-123	
Benzoic Acid	ug/L	250	111	45	10-120	
Benzyl alcohol	ug/L	100	46.7	47	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	42.3	85	32-120	
bis(2-Chloroethyl) ether	ug/L	50	35.9	72	33-111	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.6	85	50-145	
Butylbenzylphthalate	ug/L	50	42.9	86	54-138	
Chrysene	ug/L	50	40.6	81	58-127	
Di-n-butylphthalate	ug/L	50	41.7	83	56-125	
Di-n-octylphthalate	ug/L	50	44.4	89	50-134	
Dibenz(a,h)anthracene	ug/L	50	45.7	91	53-129	
Dibenzofuran	ug/L	50	37.6	75	45-120	
Diethylphthalate	ug/L	50	40.2	80	53-120	
Dimethylphthalate	ug/L	50	39.9	80	55-116	
Fluoranthene	ug/L	50	40.4	81	57-125	
Fluorene	ug/L	50	39.6	79	53-118	
Hexachloro-1,3-butadiene	ug/L	50	27.0	54	23-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2207314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	40.2	80	49-116	
Hexachlorocyclopentadiene	ug/L	50	27.3	55	26-158	
Hexachloroethane	ug/L	50	26.0	52	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.6	87	55-128	
Isophorone	ug/L	50	37.3	75	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	38.8	78	32-119	
N-Nitrosodimethylamine	ug/L	50	36.4	73	13-120	
N-Nitrosodiphenylamine	ug/L	50	40.2	80	43-120	
Naphthalene	ug/L	50	33.1	66	32-120	
Nitrobenzene	ug/L	50	37.9	76	33-110	
Pentachlorophenol	ug/L	100	80.4	80	10-137	
Phenanthrene	ug/L	50	39.3	79	57-117	
Phenol	ug/L	50	26.6	53	10-120	
Pyrene	ug/L	50	41.1	82	55-122	
2,4,6-Tribromophenol (S)	%			85	31-170	
2-Fluorobiphenyl (S)	%			74	45-139	
2-Fluorophenol (S)	%			56	13-118	
Nitrobenzene-d5 (S)	%			74	40-121	
Phenol-d6 (S)	%			49	18-105	
Terphenyl-d14 (S)	%			83	48-146	

MATRIX SPIKE SAMPLE: 2207315

Parameter	Units	92372721020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	28.5	57	10-110	
1,2-Dichlorobenzene	ug/L	ND	50	27.3	55	10-110	
1,3-Dichlorobenzene	ug/L	ND	50	27.1	54	10-110	
1,4-Dichlorobenzene	ug/L	ND	50	28.2	54	10-110	
1-Methylnaphthalene	ug/L	ND	50	32.5	65	14-110	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	26.5	53	50-150	
2,4,5-Trichlorophenol	ug/L	ND	50	34.7	69	19-105	
2,4,6-Trichlorophenol	ug/L	ND	50	35.5	71	13-108	
2,4-Dichlorophenol	ug/L	ND	50	33.5	67	19-111	
2,4-Dimethylphenol	ug/L	ND	50	31.4	63	21-103	
2,4-Dinitrophenol	ug/L	ND	250	185	74	10-109	
2,4-Dinitrotoluene	ug/L	ND	50	36.2	72	27-104	
2,6-Dinitrotoluene	ug/L	ND	50	36.1	72	28-101	
2-Chloronaphthalene	ug/L	ND	50	32.3	65	14-102	
2-Chlorophenol	ug/L	ND	50	31.1	62	16-110	
2-Methylnaphthalene	ug/L	ND	50	32.5	65	13-110	
2-Methylphenol(o-Cresol)	ug/L	ND	50	29.1	58	19-110	
2-Nitroaniline	ug/L	ND	100	68.9	69	26-103	
2-Nitrophenol	ug/L	ND	50	32.9	66	20-110	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	27.9	56	20-110	
3,3'-Dichlorobenzidine	ug/L	ND	100	70.0	70	25-112	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2207315

Parameter	Units	92372721020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	ND	100	69.6	70	29-110	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	81.9	82	10-117	
4-Bromophenylphenyl ether	ug/L	ND	50	36.5	73	20-105	
4-Chloro-3-methylphenol	ug/L	ND	100	71.1	71	22-110	
4-Chloroaniline	ug/L	ND	100	63.8	64	20-100	
4-Chlorophenylphenyl ether	ug/L	ND	50	35.6	71	19-102	
4-Nitroaniline	ug/L	ND	100	71.9	72	29-110	
4-Nitrophenol	ug/L	ND	250	104	42	10-110	
Acenaphthene	ug/L	ND	50	33.7	67	17-100	
Acenaphthylene	ug/L	ND	50	33.9	68	21-100	
Aniline	ug/L	ND	50	20.1	40	10-110	
Anthracene	ug/L	ND	50	35.7	71	24-109	
Benzo(a)anthracene	ug/L	ND	50	37.8	76	22-117	
Benzo(a)pyrene	ug/L	ND	50	38.3	77	23-104	
Benzo(b)fluoranthene	ug/L	ND	50	39.3	79	23-103	
Benzo(g,h,i)perylene	ug/L	ND	50	40.8	82	18-111	
Benzo(k)fluoranthene	ug/L	ND	50	38.5	77	22-113	
Benzoic Acid	ug/L	ND	250	104	42	10-110	
Benzyl alcohol	ug/L	ND	100	49.8	50	19-101	
bis(2-Chloroethoxy)methane	ug/L	ND	50	36.7	73	22-110	
bis(2-Chloroethyl) ether	ug/L	ND	50	31.4	63	16-110	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	40.0	80	23-102	
Butylbenzylphthalate	ug/L	ND	50	40.3	81	25-110	
Chrysene	ug/L	ND	50	37.5	75	23-115	
Di-n-butylphthalate	ug/L	ND	50	38.9	78	26-110	
Di-n-octylphthalate	ug/L	ND	50	41.8	84	23-110	
Dibenz(a,h)anthracene	ug/L	ND	50	42.9	86	21-112	
Dibenzofuran	ug/L	ND	50	34.0	68	19-102	
Diethylphthalate	ug/L	ND	50	36.7	73	29-110	
Dimethylphthalate	ug/L	ND	50	35.9	72	27-110	
Fluoranthene	ug/L	ND	50	36.6	73	23-112	
Fluorene	ug/L	ND	50	35.6	71	22-104	
Hexachloro-1,3-butadiene	ug/L	ND	50	27.3	55	10-110	
Hexachlorobenzene	ug/L	ND	50	35.7	71	21-116	
Hexachlorocyclopentadiene	ug/L	ND	50	26.3	53	10-110	
Hexachloroethane	ug/L	ND	50	25.1	50	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	40.6	81	20-113	
Isophorone	ug/L	ND	50	33.0	66	50-150	
N-Nitroso-di-n-propylamine	ug/L	ND	50	34.7	69	21-105	
N-Nitrosodimethylamine	ug/L	ND	50	29.4	59	10-110	
N-Nitrosodiphenylamine	ug/L	ND	50	34.6	69	23-107	
Naphthalene	ug/L	ND	50	30.5	58	10-110	
Nitrobenzene	ug/L	ND	50	31.9	64	20-110	
Pentachlorophenol	ug/L	ND	100	70.3	70	10-118	
Phenanthrene	ug/L	ND	50	35.5	71	24-106	
Phenol	ug/L	ND	50	21.8	44	12-110	
Pyrene	ug/L	ND	50	38.4	77	24-114	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2207315

Parameter	Units	92372721020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				76	31-170	
2-Fluorobiphenyl (S)	%				67	45-139	
2-Fluorophenol (S)	%				47	13-118	
Nitrobenzene-d5 (S)	%				66	40-121	
Phenol-d6 (S)	%				40	18-105	
Terphenyl-d14 (S)	%				75	48-146	

SAMPLE DUPLICATE: 2207316

Parameter	Units	92372721022 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1-Methylnaphthalene	ug/L	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	ND		
2,4,5-Trichlorophenol	ug/L	ND	ND		
2,4,6-Trichlorophenol	ug/L	ND	ND		
2,4-Dichlorophenol	ug/L	ND	ND		
2,4-Dimethylphenol	ug/L	ND	ND		
2,4-Dinitrophenol	ug/L	ND	ND		
2,4-Dinitrotoluene	ug/L	ND	ND		
2,6-Dinitrotoluene	ug/L	ND	ND		
2-Chloronaphthalene	ug/L	ND	ND		
2-Chlorophenol	ug/L	ND	ND		
2-Methylnaphthalene	ug/L	ND	ND		
2-Methylphenol(o-Cresol)	ug/L	ND	ND		
2-Nitroaniline	ug/L	ND	ND		
2-Nitrophenol	ug/L	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND		
3,3'-Dichlorobenzidine	ug/L	ND	ND		
3-Nitroaniline	ug/L	ND	ND		
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		
4-Bromophenylphenyl ether	ug/L	ND	ND		
4-Chloro-3-methylphenol	ug/L	ND	ND		
4-Chloroaniline	ug/L	ND	ND		
4-Chlorophenylphenyl ether	ug/L	ND	ND		
4-Nitroaniline	ug/L	ND	ND		
4-Nitrophenol	ug/L	ND	ND		
Acenaphthene	ug/L	ND	ND		
Acenaphthylene	ug/L	ND	ND		
Aniline	ug/L	ND	ND		
Anthracene	ug/L	ND	ND		
Benzo(a)anthracene	ug/L	ND	ND		
Benzo(a)pyrene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2207316

Parameter	Units	92372721022 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/L	ND	ND		
Benzo(g,h,i)perylene	ug/L	ND	ND		
Benzo(k)fluoranthene	ug/L	ND	ND		
Benzoic Acid	ug/L	ND	ND		
Benzyl alcohol	ug/L	ND	ND		
bis(2-Chloroethoxy)methane	ug/L	ND	ND		
bis(2-Chloroethyl) ether	ug/L	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		
Butylbenzylphthalate	ug/L	ND	ND		
Chrysene	ug/L	ND	ND		
Di-n-butylphthalate	ug/L	ND	ND		
Di-n-octylphthalate	ug/L	ND	ND		
Dibenz(a,h)anthracene	ug/L	ND	ND		
Dibenzofuran	ug/L	ND	ND		
Diethylphthalate	ug/L	ND	ND		
Dimethylphthalate	ug/L	ND	ND		
Fluoranthene	ug/L	ND	ND		
Fluorene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
Hexachlorobenzene	ug/L	ND	ND		
Hexachlorocyclopentadiene	ug/L	ND	ND		
Hexachloroethane	ug/L	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		
Isophorone	ug/L	ND	ND		
N-Nitroso-di-n-propylamine	ug/L	ND	ND		
N-Nitrosodimethylamine	ug/L	ND	ND		
N-Nitrosodiphenylamine	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
Nitrobenzene	ug/L	ND	ND		
Pentachlorophenol	ug/L	ND	ND		
Phenanthrene	ug/L	ND	ND		
Phenol	ug/L	ND	ND		
Pyrene	ug/L	ND	ND		
2,4,6-Tribromophenol (S)	%	76	27	94	S0
2-Fluorobiphenyl (S)	%	71	46	42	
2-Fluorophenol (S)	%	49	1	191	S0
Nitrobenzene-d5 (S)	%	67	47	36	
Phenol-d6 (S)	%	46	7	145	S0
Terphenyl-d14 (S)	%	77	72	7	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397740 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007

METHOD BLANK: 2206004 Matrix: Solid
Associated Lab Samples: 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	327	02/15/18 12:25	
1,2-Dichlorobenzene	ug/kg	ND	327	02/15/18 12:25	
1,3-Dichlorobenzene	ug/kg	ND	327	02/15/18 12:25	
1,4-Dichlorobenzene	ug/kg	ND	327	02/15/18 12:25	
1-Methylnaphthalene	ug/kg	ND	327	02/15/18 12:25	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	327	02/15/18 12:25	
2,4,5-Trichlorophenol	ug/kg	ND	327	02/15/18 12:25	
2,4,6-Trichlorophenol	ug/kg	ND	327	02/15/18 12:25	
2,4-Dichlorophenol	ug/kg	ND	327	02/15/18 12:25	
2,4-Dimethylphenol	ug/kg	ND	327	02/15/18 12:25	
2,4-Dinitrophenol	ug/kg	ND	1630	02/15/18 12:25	
2,4-Dinitrotoluene	ug/kg	ND	327	02/15/18 12:25	
2,6-Dinitrotoluene	ug/kg	ND	327	02/15/18 12:25	
2-Chloronaphthalene	ug/kg	ND	327	02/15/18 12:25	
2-Chlorophenol	ug/kg	ND	327	02/15/18 12:25	
2-Methylnaphthalene	ug/kg	ND	327	02/15/18 12:25	
2-Methylphenol(o-Cresol)	ug/kg	ND	327	02/15/18 12:25	
2-Nitroaniline	ug/kg	ND	1630	02/15/18 12:25	
2-Nitrophenol	ug/kg	ND	327	02/15/18 12:25	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	327	02/15/18 12:25	
3,3'-Dichlorobenzidine	ug/kg	ND	1630	02/15/18 12:25	
3-Nitroaniline	ug/kg	ND	1630	02/15/18 12:25	
4,6-Dinitro-2-methylphenol	ug/kg	ND	653	02/15/18 12:25	
4-Bromophenylphenyl ether	ug/kg	ND	327	02/15/18 12:25	
4-Chloro-3-methylphenol	ug/kg	ND	653	02/15/18 12:25	
4-Chloroaniline	ug/kg	ND	1630	02/15/18 12:25	
4-Chlorophenylphenyl ether	ug/kg	ND	327	02/15/18 12:25	
4-Nitroaniline	ug/kg	ND	653	02/15/18 12:25	
4-Nitrophenol	ug/kg	ND	1630	02/15/18 12:25	
Acenaphthene	ug/kg	ND	327	02/15/18 12:25	
Acenaphthylene	ug/kg	ND	327	02/15/18 12:25	
Aniline	ug/kg	ND	327	02/15/18 12:25	
Anthracene	ug/kg	ND	327	02/15/18 12:25	
Benzo(a)anthracene	ug/kg	ND	327	02/15/18 12:25	
Benzo(a)pyrene	ug/kg	ND	327	02/15/18 12:25	
Benzo(b)fluoranthene	ug/kg	ND	327	02/15/18 12:25	
Benzo(g,h,i)perylene	ug/kg	ND	327	02/15/18 12:25	
Benzo(k)fluoranthene	ug/kg	ND	327	02/15/18 12:25	
Benzoic Acid	ug/kg	ND	1630	02/15/18 12:25	
Benzyl alcohol	ug/kg	ND	653	02/15/18 12:25	
bis(2-Chloroethoxy)methane	ug/kg	ND	327	02/15/18 12:25	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2206004 Matrix: Solid
Associated Lab Samples: 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	ND	327	02/15/18 12:25	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	327	02/15/18 12:25	
Butylbenzylphthalate	ug/kg	ND	327	02/15/18 12:25	
Chrysene	ug/kg	ND	327	02/15/18 12:25	
Di-n-butylphthalate	ug/kg	ND	327	02/15/18 12:25	
Di-n-octylphthalate	ug/kg	ND	327	02/15/18 12:25	
Dibenz(a,h)anthracene	ug/kg	ND	327	02/15/18 12:25	
Dibenzofuran	ug/kg	ND	327	02/15/18 12:25	
Diethylphthalate	ug/kg	ND	327	02/15/18 12:25	
Dimethylphthalate	ug/kg	ND	327	02/15/18 12:25	
Fluoranthene	ug/kg	ND	327	02/15/18 12:25	
Fluorene	ug/kg	ND	327	02/15/18 12:25	
Hexachloro-1,3-butadiene	ug/kg	ND	327	02/15/18 12:25	
Hexachlorobenzene	ug/kg	ND	327	02/15/18 12:25	
Hexachlorocyclopentadiene	ug/kg	ND	327	02/15/18 12:25	
Hexachloroethane	ug/kg	ND	327	02/15/18 12:25	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	327	02/15/18 12:25	
Isophorone	ug/kg	ND	327	02/15/18 12:25	
N-Nitroso-di-n-propylamine	ug/kg	ND	327	02/15/18 12:25	
N-Nitrosodimethylamine	ug/kg	ND	327	02/15/18 12:25	
N-Nitrosodiphenylamine	ug/kg	ND	327	02/15/18 12:25	
Naphthalene	ug/kg	ND	327	02/15/18 12:25	
Nitrobenzene	ug/kg	ND	327	02/15/18 12:25	
Pentachlorophenol	ug/kg	ND	1630	02/15/18 12:25	
Phenanthrene	ug/kg	ND	327	02/15/18 12:25	
Phenol	ug/kg	ND	327	02/15/18 12:25	
Pyrene	ug/kg	ND	327	02/15/18 12:25	
2,4,6-Tribromophenol (S)	%	88	27-110	02/15/18 12:25	
2-Fluorobiphenyl (S)	%	78	30-110	02/15/18 12:25	
2-Fluorophenol (S)	%	70	13-110	02/15/18 12:25	
Nitrobenzene-d5 (S)	%	75	23-110	02/15/18 12:25	
Phenol-d6 (S)	%	73	22-110	02/15/18 12:25	
Terphenyl-d14 (S)	%	96	28-110	02/15/18 12:25	

LABORATORY CONTROL SAMPLE: 2206005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1320	79	36-120	
1,2-Dichlorobenzene	ug/kg	1670	1270	76	41-120	
1,3-Dichlorobenzene	ug/kg	1670	1260	76	66-120	
1,4-Dichlorobenzene	ug/kg	1670	1270	76	42-120	
1-Methylnaphthalene	ug/kg	1670	1350	81	40-120	
2,2'-Oxybis(1-chloropropane)	ug/kg	1670	1090	65	17-120	
2,4,5-Trichlorophenol	ug/kg	1670	1330	80	37-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2206005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/kg	1670	1410	85	40-120	
2,4-Dichlorophenol	ug/kg	1670	1370	82	33-120	
2,4-Dimethylphenol	ug/kg	1670	1430	86	36-120	
2,4-Dinitrophenol	ug/kg	8330	6610	79	22-121	
2,4-Dinitrotoluene	ug/kg	1670	1440	86	60-120	
2,6-Dinitrotoluene	ug/kg	1670	1370	82	54-120	
2-Chloronaphthalene	ug/kg	1670	1330	80	41-120	
2-Chlorophenol	ug/kg	1670	1320	79	39-120	
2-Methylnaphthalene	ug/kg	1670	1350	81	26-120	
2-Methylphenol(o-Cresol)	ug/kg	1670	1450	87	41-120	
2-Nitroaniline	ug/kg	3330	2540	76	45-120	
2-Nitrophenol	ug/kg	1670	1340	81	35-120	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1270	76	35-120	
3,3'-Dichlorobenzidine	ug/kg	3330	2520	76	16-125	
3-Nitroaniline	ug/kg	3330	2480	74	45-120	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3150	94	46-120	
4-Bromophenylphenyl ether	ug/kg	1670	1510	90	36-120	
4-Chloro-3-methylphenol	ug/kg	3330	2690	81	37-120	
4-Chloroaniline	ug/kg	3330	2510	75	35-120	
4-Chlorophenylphenyl ether	ug/kg	1670	1420	85	30-120	
4-Nitroaniline	ug/kg	3330	2600	78	48-120	
4-Nitrophenol	ug/kg	8330	6230	75	43-120	
Acenaphthene	ug/kg	1670	1360	82	46-120	
Acenaphthylene	ug/kg	1670	1370	82	46-120	
Aniline	ug/kg	1670	1130	68	33-120	
Anthracene	ug/kg	1670	1450	87	63-120	
Benzo(a)anthracene	ug/kg	1670	1410	84	61-120	
Benzo(a)pyrene	ug/kg	1670	1480	89	59-120	
Benzo(b)fluoranthene	ug/kg	1670	1510	91	55-120	
Benzo(g,h,i)perylene	ug/kg	1670	1490	89	57-120	
Benzo(k)fluoranthene	ug/kg	1670	1520	91	56-120	
Benzoic Acid	ug/kg	8330	4080	49	13-120	
Benzyl alcohol	ug/kg	3330	2620	79	34-120	
bis(2-Chloroethoxy)methane	ug/kg	1670	1290	77	21-120	
bis(2-Chloroethyl) ether	ug/kg	1670	1300	78	25-120	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1650	99	56-123	
Butylbenzylphthalate	ug/kg	1670	1580	95	57-120	
Chrysene	ug/kg	1670	1380	83	64-120	
Di-n-butylphthalate	ug/kg	1670	1650	99	58-120	
Di-n-octylphthalate	ug/kg	1670	1750	105	47-121	
Dibenz(a,h)anthracene	ug/kg	1670	1530	92	56-120	
Dibenzofuran	ug/kg	1670	1380	83	43-120	
Diethylphthalate	ug/kg	1670	1550	93	55-120	
Dimethylphthalate	ug/kg	1670	1440	87	54-120	
Fluoranthene	ug/kg	1670	1530	92	61-120	
Fluorene	ug/kg	1670	1440	86	51-120	
Hexachloro-1,3-butadiene	ug/kg	1670	1410	84	22-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2206005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/kg	1670	1510	90	53-120	
Hexachlorocyclopentadiene	ug/kg	1670	1500	90	18-150	
Hexachloroethane	ug/kg	1670	1410	85	39-120	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1540	92	58-120	
Isophorone	ug/kg	1670	1250	75	38-120	
N-Nitroso-di-n-propylamine	ug/kg	1670	1330	80	30-120	
N-Nitrosodimethylamine	ug/kg	1670	1130	68	32-120	
N-Nitrosodiphenylamine	ug/kg	1670	1420	85	50-120	
Naphthalene	ug/kg	1670	1320	79	38-120	
Nitrobenzene	ug/kg	1670	1230	74	37-120	
Pentachlorophenol	ug/kg	3330	2770	83	10-120	
Phenanthrene	ug/kg	1670	1420	85	62-120	
Phenol	ug/kg	1670	1370	82	37-120	
Pyrene	ug/kg	1670	1380	83	63-120	
2,4,6-Tribromophenol (S)	%			103	27-110	
2-Fluorobiphenyl (S)	%			81	30-110	
2-Fluorophenol (S)	%			76	13-110	
Nitrobenzene-d5 (S)	%			76	23-110	
Phenol-d6 (S)	%			76	22-110	
Terphenyl-d14 (S)	%			90	28-110	

MATRIX SPIKE SAMPLE: 2206006

Parameter	Units	35372449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	0.076U mg/kg	1970	798	40	18-119	
1,2-Dichlorobenzene	ug/kg	0.10U mg/kg	1970	820	41	50-110	M1
1,3-Dichlorobenzene	ug/kg	0.089U mg/kg	1970	791	40	27-110	
1,4-Dichlorobenzene	ug/kg	0.11U mg/kg	1970	817	41	28-110	
1-Methylnaphthalene	ug/kg	0.10U mg/kg	1970	859	43	24-116	
2,2'-Oxybis(1-chloropropane)	ug/kg	0.10U mg/kg	1970	658	33	50-150	M1
2,4,5-Trichlorophenol	ug/kg	0.12U mg/kg	1970	1230	62	28-110	
2,4,6-Trichlorophenol	ug/kg	0.087U mg/kg	1970	1180	60	17-117	
2,4-Dichlorophenol	ug/kg	0.086U mg/kg	1970	909	46	21-128	
2,4-Dimethylphenol	ug/kg	0.16U mg/kg	1970	896	45	10-120	
2,4-Dinitrophenol	ug/kg	0.064U mg/kg	9870	4140	42	10-107	
2,4-Dinitrotoluene	ug/kg	0.074U mg/kg	1970	1360	69	36-109	
2,6-Dinitrotoluene	ug/kg	0.082U mg/kg	1970	1250	63	32-110	
2-Chloronaphthalene	ug/kg	0.078U mg/kg	1970	882	45	30-107	
2-Chlorophenol	ug/kg	0.11U mg/kg	1970	807	41	14-106	
2-Methylnaphthalene	ug/kg	0.085U mg/kg	1970	860	44	10-135	
2-Methylphenol(o-Cresol)	ug/kg	0.12U mg/kg	1970	850	43	10-124	
2-Nitroaniline	ug/kg	0.12U mg/kg	3950	2240	57	26-116	
2-Nitrophenol	ug/kg	0.095U mg/kg	1970	825	42	28-103	
3&4-Methylphenol(m&p Cresol)	ug/kg	0.16U mg/kg	1970	843	43	10-109	
3,3'-Dichlorobenzidine	ug/kg	0.086U mg/kg	3950	2420	61	10-150	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2206006

Parameter	Units	35372449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/kg	0.11U mg/kg	3950	2450	62	22-110	
4,6-Dinitro-2-methylphenol	ug/kg	0.079U mg/kg	3950	2900	74	13-121	
4-Bromophenylphenyl ether	ug/kg	0.072U mg/kg	1970	1310	67	31-109	
4-Chloro-3-methylphenol	ug/kg	0.081U mg/kg	3950	2390	61	13-128	
4-Chloroaniline	ug/kg	0.11U mg/kg	3950	1740J	44	18-102	
4-Chlorophenylphenyl ether	ug/kg	0.081U mg/kg	1970	1220	62	29-112	
4-Nitroaniline	ug/kg	0.11U mg/kg	3950	2580	65	16-111	
4-Nitrophenol	ug/kg	0.081J mg/kg	9870	5850	58	14-135	
Acenaphthene	ug/kg	0.091U mg/kg	1970	1080	55	26-114	
Acenaphthylene	ug/kg	0.093U mg/kg	1970	1050	53	32-108	
Aniline	ug/kg	0.11U mg/kg	1970	705	36	10-107	
Anthracene	ug/kg	0.088U mg/kg	1970	1340	68	32-111	
Benzo(a)anthracene	ug/kg	0.073U mg/kg	1970	1260	64	25-117	
Benzo(a)pyrene	ug/kg	0.075U mg/kg	1970	1270	64	25-106	
Benzo(b)fluoranthene	ug/kg	0.068U mg/kg	1970	1320	67	24-110	
Benzo(g,h,i)perylene	ug/kg	0.10U mg/kg	1970	1240	63	19-112	
Benzo(k)fluoranthene	ug/kg	0.078U mg/kg	1970	1300	66	24-114	
Benzoic Acid	ug/kg	0.072U mg/kg	9870	1770J	18	10-110	
Benzyl alcohol	ug/kg	0.079U mg/kg	3950	1620	41	24-106	
bis(2-Chloroethoxy)methane	ug/kg	0.092U mg/kg	1970	788	40	13-119	
bis(2-Chloroethyl) ether	ug/kg	0.10U mg/kg	1970	857	43	10-134	
bis(2-Ethylhexyl)phthalate	ug/kg	0.11U mg/kg	1970	1390	70	10-125	
Butylbenzylphthalate	ug/kg	0.084U mg/kg	1970	1340	68	18-110	
Chrysene	ug/kg	0.052U mg/kg	1970	1250	63	30-110	
Di-n-butylphthalate	ug/kg	0.064U mg/kg	1970	1440	73	19-112	
Di-n-octylphthalate	ug/kg	0.082U mg/kg	1970	1500	76	17-105	
Dibenz(a,h)anthracene	ug/kg	0.084U mg/kg	1970	1310	66	23-111	
Dibenzofuran	ug/kg	0.064U mg/kg	1970	1140	58	35-103	
Diethylphthalate	ug/kg	0.061U mg/kg	1970	1440	73	27-113	
Dimethylphthalate	ug/kg	0.080U mg/kg	1970	1260	64	26-111	
Fluoranthene	ug/kg	0.057U mg/kg	1970	1420	72	33-109	
Fluorene	ug/kg	0.081U mg/kg	1970	1260	64	32-113	
Hexachloro-1,3-butadiene	ug/kg	0.068U mg/kg	1970	829	42	16-116	
Hexachlorobenzene	ug/kg	0.050U mg/kg	1970	1380	70	27-120	
Hexachlorocyclopentadiene	ug/kg	0.073U mg/kg	1970	753	38	10-108	
Hexachloroethane	ug/kg	0.10U mg/kg	1970	842	43	10-117	
Indeno(1,2,3-cd)pyrene	ug/kg	0.081U mg/kg	1970	1320	67	10-122	
Isophorone	ug/kg	0.088U mg/kg	1970	831	42	28-114	
N-Nitroso-di-n-propylamine	ug/kg	0.075U mg/kg	1970	877	44	27-113	
N-Nitrosodimethylamine	ug/kg	0.13U mg/kg	1970	670	34	10-109	
N-Nitrosodiphenylamine	ug/kg	0.12U mg/kg	1970	1310	67	10-128	
Naphthalene	ug/kg	0.097U mg/kg	1970	828	42	25-110	
Nitrobenzene	ug/kg	0.11U mg/kg	1970	756	38	18-114	
Pentachlorophenol	ug/kg	0.072U mg/kg	3950	2460	62	10-122	
Phenanthrene	ug/kg	0.066U mg/kg	1970	1320	67	30-114	
Phenol	ug/kg	0.12U mg/kg	1970	843	43	11-102	
Pyrene	ug/kg	0.067U mg/kg	1970	1220	62	25-116	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2206006

Parameter	Units	35372449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				82	27-110	
2-Fluorobiphenyl (S)	%				41	30-110	
2-Fluorophenol (S)	%				35	13-110	
Nitrobenzene-d5 (S)	%				39	23-110	
Phenol-d6 (S)	%				37	22-110	
Terphenyl-d14 (S)	%				64	28-110	

SAMPLE DUPLICATE: 2206007

Parameter	Units	35372449001 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	0.076U mg/kg	ND		
1,2-Dichlorobenzene	ug/kg	0.10U mg/kg	ND		
1,3-Dichlorobenzene	ug/kg	0.089U mg/kg	ND		
1,4-Dichlorobenzene	ug/kg	0.11U mg/kg	ND		
1-Methylnaphthalene	ug/kg	0.10U mg/kg	ND		
2,2'-Oxybis(1-chloropropane)	ug/kg	0.10U mg/kg	ND		
2,4,5-Trichlorophenol	ug/kg	0.12U mg/kg	ND		
2,4,6-Trichlorophenol	ug/kg	0.087U mg/kg	ND		
2,4-Dichlorophenol	ug/kg	0.086U mg/kg	ND		
2,4-Dimethylphenol	ug/kg	0.16U mg/kg	ND		
2,4-Dinitrophenol	ug/kg	0.064U mg/kg	ND		
2,4-Dinitrotoluene	ug/kg	0.074U mg/kg	ND		
2,6-Dinitrotoluene	ug/kg	0.082U mg/kg	ND		
2-Chloronaphthalene	ug/kg	0.078U mg/kg	ND		
2-Chlorophenol	ug/kg	0.11U mg/kg	ND		
2-Methylnaphthalene	ug/kg	0.085U mg/kg	ND		
2-Methylphenol(o-Cresol)	ug/kg	0.12U mg/kg	ND		
2-Nitroaniline	ug/kg	0.12U mg/kg	ND		
2-Nitrophenol	ug/kg	0.095U mg/kg	ND		
3&4-Methylphenol(m&p Cresol)	ug/kg	0.16U mg/kg	ND		
3,3'-Dichlorobenzidine	ug/kg	0.086U mg/kg	ND		
3-Nitroaniline	ug/kg	0.11U mg/kg	ND		
4,6-Dinitro-2-methylphenol	ug/kg	0.079U mg/kg	ND		
4-Bromophenylphenyl ether	ug/kg	0.072U mg/kg	ND		
4-Chloro-3-methylphenol	ug/kg	0.081U mg/kg	ND		
4-Chloroaniline	ug/kg	0.11U mg/kg	ND		
4-Chlorophenylphenyl ether	ug/kg	0.081U mg/kg	ND		
4-Nitroaniline	ug/kg	0.11U mg/kg	ND		
4-Nitrophenol	ug/kg	0.081J mg/kg	ND		
Acenaphthene	ug/kg	0.091U mg/kg	ND		
Acenaphthylene	ug/kg	0.093U mg/kg	ND		
Aniline	ug/kg	0.11U mg/kg	ND		
Anthracene	ug/kg	0.088U mg/kg	ND		
Benzo(a)anthracene	ug/kg	0.073U mg/kg	ND		
Benzo(a)pyrene	ug/kg	0.075U mg/kg	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2206007

Parameter	Units	35372449001 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/kg	0.068U mg/kg	ND		
Benzo(g,h,i)perylene	ug/kg	0.10U mg/kg	ND		
Benzo(k)fluoranthene	ug/kg	0.078U mg/kg	ND		
Benzoic Acid	ug/kg	0.072U mg/kg	ND		
Benzyl alcohol	ug/kg	0.079U mg/kg	ND		
bis(2-Chloroethoxy)methane	ug/kg	0.092U mg/kg	ND		
bis(2-Chloroethyl) ether	ug/kg	0.10U mg/kg	ND		
bis(2-Ethylhexyl)phthalate	ug/kg	0.11U mg/kg	ND		
Butylbenzylphthalate	ug/kg	0.084U mg/kg	ND		
Chrysene	ug/kg	0.052U mg/kg	ND		
Di-n-butylphthalate	ug/kg	0.064U mg/kg	ND		
Di-n-octylphthalate	ug/kg	0.082U mg/kg	ND		
Dibenz(a,h)anthracene	ug/kg	0.084U mg/kg	ND		
Dibenzofuran	ug/kg	0.064U mg/kg	ND		
Diethylphthalate	ug/kg	0.061U mg/kg	ND		
Dimethylphthalate	ug/kg	0.080U mg/kg	ND		
Fluoranthene	ug/kg	0.057U mg/kg	ND		
Fluorene	ug/kg	0.081U mg/kg	ND		
Hexachloro-1,3-butadiene	ug/kg	0.068U mg/kg	ND		
Hexachlorobenzene	ug/kg	0.050U mg/kg	ND		
Hexachlorocyclopentadiene	ug/kg	0.073U mg/kg	ND		
Hexachloroethane	ug/kg	0.10U mg/kg	ND		
Indeno(1,2,3-cd)pyrene	ug/kg	0.081U mg/kg	ND		
Isophorone	ug/kg	0.088U mg/kg	ND		
N-Nitroso-di-n-propylamine	ug/kg	0.075U mg/kg	ND		
N-Nitrosodimethylamine	ug/kg	0.13U mg/kg	ND		
N-Nitrosodiphenylamine	ug/kg	0.12U mg/kg	ND		
Naphthalene	ug/kg	0.097U mg/kg	ND		
Nitrobenzene	ug/kg	0.11U mg/kg	ND		
Pentachlorophenol	ug/kg	0.072U mg/kg	ND		
Phenanthrene	ug/kg	0.066U mg/kg	ND		
Phenol	ug/kg	0.12U mg/kg	ND		
Pyrene	ug/kg	0.067U mg/kg	ND		
2,4,6-Tribromophenol (S)	%	70	37	63	
2-Fluorobiphenyl (S)	%	54	21	88	S0
2-Fluorophenol (S)	%	50	19	87	
Nitrobenzene-d5 (S)	%	57	21	92	S0
Phenol-d6 (S)	%	54	21	89	S0
Terphenyl-d14 (S)	%	57	39	39	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397773 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721018

METHOD BLANK: 2206139 Matrix: Solid
Associated Lab Samples: 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	334	02/16/18 18:40	
1,2-Dichlorobenzene	ug/kg	ND	334	02/16/18 18:40	
1,3-Dichlorobenzene	ug/kg	ND	334	02/16/18 18:40	
1,4-Dichlorobenzene	ug/kg	ND	334	02/16/18 18:40	
1-Methylnaphthalene	ug/kg	ND	334	02/16/18 18:40	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	334	02/16/18 18:40	
2,4,5-Trichlorophenol	ug/kg	ND	334	02/16/18 18:40	
2,4,6-Trichlorophenol	ug/kg	ND	334	02/16/18 18:40	
2,4-Dichlorophenol	ug/kg	ND	334	02/16/18 18:40	
2,4-Dimethylphenol	ug/kg	ND	334	02/16/18 18:40	
2,4-Dinitrophenol	ug/kg	ND	1670	02/16/18 18:40	
2,4-Dinitrotoluene	ug/kg	ND	334	02/16/18 18:40	
2,6-Dinitrotoluene	ug/kg	ND	334	02/16/18 18:40	
2-Chloronaphthalene	ug/kg	ND	334	02/16/18 18:40	
2-Chlorophenol	ug/kg	ND	334	02/16/18 18:40	
2-Methylnaphthalene	ug/kg	ND	334	02/16/18 18:40	
2-Methylphenol(o-Cresol)	ug/kg	ND	334	02/16/18 18:40	
2-Nitroaniline	ug/kg	ND	1670	02/16/18 18:40	
2-Nitrophenol	ug/kg	ND	334	02/16/18 18:40	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	334	02/16/18 18:40	
3,3'-Dichlorobenzidine	ug/kg	ND	1670	02/16/18 18:40	
3-Nitroaniline	ug/kg	ND	1670	02/16/18 18:40	
4,6-Dinitro-2-methylphenol	ug/kg	ND	669	02/16/18 18:40	
4-Bromophenylphenyl ether	ug/kg	ND	334	02/16/18 18:40	
4-Chloro-3-methylphenol	ug/kg	ND	669	02/16/18 18:40	
4-Chloroaniline	ug/kg	ND	1670	02/16/18 18:40	
4-Chlorophenylphenyl ether	ug/kg	ND	334	02/16/18 18:40	
4-Nitroaniline	ug/kg	ND	669	02/16/18 18:40	
4-Nitrophenol	ug/kg	ND	1670	02/16/18 18:40	
Acenaphthene	ug/kg	ND	334	02/16/18 18:40	
Acenaphthylene	ug/kg	ND	334	02/16/18 18:40	
Aniline	ug/kg	ND	334	02/16/18 18:40	
Anthracene	ug/kg	ND	334	02/16/18 18:40	
Benzo(a)anthracene	ug/kg	ND	334	02/16/18 18:40	
Benzo(a)pyrene	ug/kg	ND	334	02/16/18 18:40	
Benzo(b)fluoranthene	ug/kg	ND	334	02/16/18 18:40	
Benzo(g,h,i)perylene	ug/kg	ND	334	02/16/18 18:40	
Benzo(k)fluoranthene	ug/kg	ND	334	02/16/18 18:40	
Benzoic Acid	ug/kg	ND	1670	02/16/18 18:40	
Benzyl alcohol	ug/kg	ND	669	02/16/18 18:40	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2206139 Matrix: Solid

Associated Lab Samples: 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	334	02/16/18 18:40	
bis(2-Chloroethyl) ether	ug/kg	ND	334	02/16/18 18:40	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	334	02/16/18 18:40	
Butylbenzylphthalate	ug/kg	ND	334	02/16/18 18:40	
Chrysene	ug/kg	ND	334	02/16/18 18:40	
Di-n-butylphthalate	ug/kg	ND	334	02/16/18 18:40	
Di-n-octylphthalate	ug/kg	ND	334	02/16/18 18:40	
Dibenz(a,h)anthracene	ug/kg	ND	334	02/16/18 18:40	
Dibenzofuran	ug/kg	ND	334	02/16/18 18:40	
Diethylphthalate	ug/kg	ND	334	02/16/18 18:40	
Dimethylphthalate	ug/kg	ND	334	02/16/18 18:40	
Fluoranthene	ug/kg	ND	334	02/16/18 18:40	
Fluorene	ug/kg	ND	334	02/16/18 18:40	
Hexachloro-1,3-butadiene	ug/kg	ND	334	02/16/18 18:40	
Hexachlorobenzene	ug/kg	ND	334	02/16/18 18:40	
Hexachlorocyclopentadiene	ug/kg	ND	334	02/16/18 18:40	
Hexachloroethane	ug/kg	ND	334	02/16/18 18:40	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	334	02/16/18 18:40	
Isophorone	ug/kg	ND	334	02/16/18 18:40	
N-Nitroso-di-n-propylamine	ug/kg	ND	334	02/16/18 18:40	
N-Nitrosodimethylamine	ug/kg	ND	334	02/16/18 18:40	
N-Nitrosodiphenylamine	ug/kg	ND	334	02/16/18 18:40	
Naphthalene	ug/kg	ND	334	02/16/18 18:40	
Nitrobenzene	ug/kg	ND	334	02/16/18 18:40	
Pentachlorophenol	ug/kg	ND	1670	02/16/18 18:40	
Phenanthrene	ug/kg	ND	334	02/16/18 18:40	
Phenol	ug/kg	ND	334	02/16/18 18:40	
Pyrene	ug/kg	ND	334	02/16/18 18:40	
2,4,6-Tribromophenol (S)	%	78	27-110	02/16/18 18:40	
2-Fluorobiphenyl (S)	%	72	30-110	02/16/18 18:40	
2-Fluorophenol (S)	%	66	13-110	02/16/18 18:40	
Nitrobenzene-d5 (S)	%	70	23-110	02/16/18 18:40	
Phenol-d6 (S)	%	68	22-110	02/16/18 18:40	
Terphenyl-d14 (S)	%	82	28-110	02/16/18 18:40	

LABORATORY CONTROL SAMPLE: 2206140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1660	1290	77	36-120	
1,2-Dichlorobenzene	ug/kg	1660	1270	76	41-120	
1,3-Dichlorobenzene	ug/kg	1660	1230	74	66-120	
1,4-Dichlorobenzene	ug/kg	1660	1240	75	42-120	
1-Methylnaphthalene	ug/kg	1660	1300	78	40-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2206140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1660	1080	65	17-120	
2,4,5-Trichlorophenol	ug/kg	1660	1260	76	37-120	
2,4,6-Trichlorophenol	ug/kg	1660	1340	81	40-120	
2,4-Dichlorophenol	ug/kg	1660	1300	78	33-120	
2,4-Dimethylphenol	ug/kg	1660	1390	84	36-120	
2,4-Dinitrophenol	ug/kg	8310	5800	70	22-121	
2,4-Dinitrotoluene	ug/kg	1660	1370	82	60-120	
2,6-Dinitrotoluene	ug/kg	1660	1300	79	54-120	
2-Chloronaphthalene	ug/kg	1660	1300	78	41-120	
2-Chlorophenol	ug/kg	1660	1310	79	39-120	
2-Methylnaphthalene	ug/kg	1660	1280	77	26-120	
2-Methylphenol(o-Cresol)	ug/kg	1660	1390	83	41-120	
2-Nitroaniline	ug/kg	3320	2510	76	45-120	
2-Nitrophenol	ug/kg	1660	1280	77	35-120	
3&4-Methylphenol(m&p Cresol)	ug/kg	1660	1250	75	35-120	
3,3'-Dichlorobenzidine	ug/kg	3320	2310	70	16-125	
3-Nitroaniline	ug/kg	3320	2330	70	45-120	
4,6-Dinitro-2-methylphenol	ug/kg	3320	2930	88	46-120	
4-Bromophenylphenyl ether	ug/kg	1660	1460	88	36-120	
4-Chloro-3-methylphenol	ug/kg	3320	2550	77	37-120	
4-Chloroaniline	ug/kg	3320	2400	72	35-120	
4-Chlorophenylphenyl ether	ug/kg	1660	1380	83	30-120	
4-Nitroaniline	ug/kg	3320	2470	74	48-120	
4-Nitrophenol	ug/kg	8310	5730	69	43-120	
Acenaphthene	ug/kg	1660	1360	82	46-120	
Acenaphthylene	ug/kg	1660	1360	82	46-120	
Aniline	ug/kg	1660	1070	65	33-120	
Anthracene	ug/kg	1660	1440	87	63-120	
Benzo(a)anthracene	ug/kg	1660	1290	77	61-120	
Benzo(a)pyrene	ug/kg	1660	1360	82	59-120	
Benzo(b)fluoranthene	ug/kg	1660	1400	84	55-120	
Benzo(g,h,i)perylene	ug/kg	1660	1390	83	57-120	
Benzo(k)fluoranthene	ug/kg	1660	1450	87	56-120	
Benzoic Acid	ug/kg	8310	4330	52	13-120	
Benzyl alcohol	ug/kg	3320	2470	74	34-120	
bis(2-Chloroethoxy)methane	ug/kg	1660	1270	76	21-120	
bis(2-Chloroethyl) ether	ug/kg	1660	1280	77	25-120	
bis(2-Ethylhexyl)phthalate	ug/kg	1660	1530	92	56-123	
Butylbenzylphthalate	ug/kg	1660	1440	86	57-120	
Chrysene	ug/kg	1660	1300	78	64-120	
Di-n-butylphthalate	ug/kg	1660	1610	97	58-120	
Di-n-octylphthalate	ug/kg	1660	1630	98	47-121	
Dibenz(a,h)anthracene	ug/kg	1660	1440	86	56-120	
Dibenzofuran	ug/kg	1660	1370	82	43-120	
Diethylphthalate	ug/kg	1660	1510	91	55-120	
Dimethylphthalate	ug/kg	1660	1410	85	54-120	
Fluoranthene	ug/kg	1660	1490	90	61-120	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2206140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1660	1430	86	51-120	
Hexachloro-1,3-butadiene	ug/kg	1660	1340	81	22-120	
Hexachlorobenzene	ug/kg	1660	1470	88	53-120	
Hexachlorocyclopentadiene	ug/kg	1660	1310	79	18-150	
Hexachloroethane	ug/kg	1660	1380	83	39-120	
Indeno(1,2,3-cd)pyrene	ug/kg	1660	1450	87	58-120	
Isophorone	ug/kg	1660	1220	73	38-120	
N-Nitroso-di-n-propylamine	ug/kg	1660	1240	74	30-120	
N-Nitrosodimethylamine	ug/kg	1660	1140	69	32-120	
N-Nitrosodiphenylamine	ug/kg	1660	1390	84	50-120	
Naphthalene	ug/kg	1660	1290	77	38-120	
Nitrobenzene	ug/kg	1660	1220	73	37-120	
Pentachlorophenol	ug/kg	3320	2480	75	10-120	
Phenanthrene	ug/kg	1660	1410	85	62-120	
Phenol	ug/kg	1660	1340	81	37-120	
Pyrene	ug/kg	1660	1180	71	63-120	
2,4,6-Tribromophenol (S)	%			93	27-110	
2-Fluorobiphenyl (S)	%			78	30-110	
2-Fluorophenol (S)	%			72	13-110	
Nitrobenzene-d5 (S)	%			74	23-110	
Phenol-d6 (S)	%			73	22-110	
Terphenyl-d14 (S)	%			79	28-110	

MATRIX SPIKE SAMPLE: 2206141

Parameter	Units	35373070011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	0.066U mg/kg	1760	729	42	18-119	
1,2-Dichlorobenzene	ug/kg	0.091U mg/kg	1760	729	42	50-110	M1
1,3-Dichlorobenzene	ug/kg	0.078U mg/kg	1760	694	40	27-110	
1,4-Dichlorobenzene	ug/kg	0.097U mg/kg	1760	709	40	28-110	
1-Methylnaphthalene	ug/kg	0.089U mg/kg	1760	739	42	24-116	
2,2'-Oxybis(1-chloropropane)	ug/kg	0.091U mg/kg	1760	754	43	50-150	M1
2,4,5-Trichlorophenol	ug/kg	0.11U mg/kg	1760	758	43	28-110	
2,4,6-Trichlorophenol	ug/kg	0.076U mg/kg	1760	662	38	17-117	
2,4-Dichlorophenol	ug/kg	0.075U mg/kg	1760	689	39	21-128	
2,4-Dimethylphenol	ug/kg	0.14U mg/kg	1760	842	48	10-120	
2,4-Dinitrophenol	ug/kg	0.056U mg/kg	8780	ND	0	10-107	M1
2,4-Dinitrotoluene	ug/kg	0.064U mg/kg	1760	687	39	36-109	
2,6-Dinitrotoluene	ug/kg	0.072U mg/kg	1760	708	40	32-110	
2-Chloronaphthalene	ug/kg	0.068U mg/kg	1760	769	44	30-107	
2-Chlorophenol	ug/kg	0.094U mg/kg	1760	761	43	14-106	
2-Methylnaphthalene	ug/kg	0.074U mg/kg	1760	771	44	10-135	
2-Methylphenol(o-Cresol)	ug/kg	0.10U mg/kg	1760	798	45	10-124	
2-Nitroaniline	ug/kg	0.11U mg/kg	3510	1590J	45	26-116	
2-Nitrophenol	ug/kg	0.083U mg/kg	1760	632	36	28-103	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2206141

Parameter	Units	35373070011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/kg	0.14U mg/kg	1760	730	42	10-109	
3,3'-Dichlorobenzidine	ug/kg	0.075U mg/kg	3510	1350J	38	10-150	
3-Nitroaniline	ug/kg	0.094U mg/kg	3510	1460J	42	22-110	
4,6-Dinitro-2-methylphenol	ug/kg	0.069U mg/kg	3510	714	20	13-121	
4-Bromophenylphenyl ether	ug/kg	0.062U mg/kg	1760	761	43	31-109	
4-Chloro-3-methylphenol	ug/kg	0.071U mg/kg	3510	1560	44	13-128	
4-Chloroaniline	ug/kg	0.096U mg/kg	3510	1540J	44	18-102	
4-Chlorophenylphenyl ether	ug/kg	0.071U mg/kg	1760	739	42	29-112	
4-Nitroaniline	ug/kg	0.097U mg/kg	3510	1400	40	16-111	
4-Nitrophenol	ug/kg	0.061U mg/kg	8780	3150	36	14-135	
Acenaphthene	ug/kg	0.079U mg/kg	1760	789	45	26-114	
Acenaphthylene	ug/kg	0.081U mg/kg	1760	776	44	32-108	
Aniline	ug/kg	0.092U mg/kg	1760	712	41	10-107	
Anthracene	ug/kg	0.077U mg/kg	1760	799	46	32-111	
Benzo(a)anthracene	ug/kg	0.063U mg/kg	1760	779	44	25-117	
Benzo(a)pyrene	ug/kg	0.065U mg/kg	1760	837	48	25-106	
Benzo(b)fluoranthene	ug/kg	0.059U mg/kg	1760	744	42	24-110	
Benzo(g,h,i)perylene	ug/kg	0.087U mg/kg	1760	740	42	19-112	
Benzo(k)fluoranthene	ug/kg	0.068U mg/kg	1760	885	50	24-114	
Benzoic Acid	ug/kg	0.062U mg/kg	8780	ND	0	10-110	M1
Benzyl alcohol	ug/kg	0.069U mg/kg	3510	1430	41	24-106	
bis(2-Chloroethoxy)methane	ug/kg	0.080U mg/kg	1760	803	46	13-119	
bis(2-Chloroethyl) ether	ug/kg	0.087U mg/kg	1760	793	45	10-134	
bis(2-Ethylhexyl)phthalate	ug/kg	0.094U mg/kg	1760	803	46	10-125	
Butylbenzylphthalate	ug/kg	0.073U mg/kg	1760	826	47	18-110	
Chrysene	ug/kg	0.046U mg/kg	1760	855	49	30-110	
Di-n-butylphthalate	ug/kg	0.056U mg/kg	1760	826	47	19-112	
Di-n-octylphthalate	ug/kg	0.072U mg/kg	1760	764	44	17-105	
Dibenz(a,h)anthracene	ug/kg	0.073U mg/kg	1760	747	43	23-111	
Dibenzofuran	ug/kg	0.056U mg/kg	1760	768	44	35-103	
Diethylphthalate	ug/kg	0.053U mg/kg	1760	841	48	27-113	
Dimethylphthalate	ug/kg	0.070U mg/kg	1760	833	47	26-111	
Fluoranthene	ug/kg	0.050U mg/kg	1760	804	46	33-109	
Fluorene	ug/kg	0.071U mg/kg	1760	778	44	32-113	
Hexachloro-1,3-butadiene	ug/kg	0.059U mg/kg	1760	709	40	16-116	
Hexachlorobenzene	ug/kg	0.044U mg/kg	1760	797	45	27-120	
Hexachlorocyclopentadiene	ug/kg	0.063U mg/kg	1760	575	33	10-108	
Hexachloroethane	ug/kg	0.090U mg/kg	1760	754	43	10-117	
Indeno(1,2,3-cd)pyrene	ug/kg	0.071U mg/kg	1760	763	43	10-122	
Isophorone	ug/kg	0.077U mg/kg	1760	750	43	28-114	
N-Nitroso-di-n-propylamine	ug/kg	0.065U mg/kg	1760	808	46	27-113	
N-Nitrosodimethylamine	ug/kg	0.11U mg/kg	1760	710	40	10-109	
N-Nitrosodiphenylamine	ug/kg	0.10U mg/kg	1760	782	45	10-128	
Naphthalene	ug/kg	0.084U mg/kg	1760	765	44	25-110	
Nitrobenzene	ug/kg	0.094U mg/kg	1760	791	45	18-114	
Pentachlorophenol	ug/kg	0.062U mg/kg	3510	731J	21	10-122	
Phenanthrene	ug/kg	0.057U mg/kg	1760	809	46	30-114	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2206141

Parameter	Units	35373070011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol	ug/kg	0.10U mg/kg	1760	812	46	11-102	
Pyrene	ug/kg	0.058U mg/kg	1760	822	47	25-116	
2,4,6-Tribromophenol (S)	%				51	27-110	
2-Fluorobiphenyl (S)	%				51	30-110	
2-Fluorophenol (S)	%				48	13-110	
Nitrobenzene-d5 (S)	%				51	23-110	
Phenol-d6 (S)	%				52	22-110	
Terphenyl-d14 (S)	%				52	28-110	

SAMPLE DUPLICATE: 2206142

Parameter	Units	35373070013 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	0.066U mg/kg	ND		
1,2-Dichlorobenzene	ug/kg	0.091U mg/kg	ND		
1,3-Dichlorobenzene	ug/kg	0.078U mg/kg	ND		
1,4-Dichlorobenzene	ug/kg	0.096U mg/kg	ND		
1-Methylnaphthalene	ug/kg	0.089U mg/kg	ND		
2,2'-Oxybis(1-chloropropane)	ug/kg	0.091U mg/kg	ND		
2,4,5-Trichlorophenol	ug/kg	0.11U mg/kg	ND		
2,4,6-Trichlorophenol	ug/kg	0.076U mg/kg	ND		
2,4-Dichlorophenol	ug/kg	0.075U mg/kg	ND		
2,4-Dimethylphenol	ug/kg	0.13U mg/kg	ND		
2,4-Dinitrophenol	ug/kg	0.056U mg/kg	ND		
2,4-Dinitrotoluene	ug/kg	0.064U mg/kg	ND		
2,6-Dinitrotoluene	ug/kg	0.071U mg/kg	ND		
2-Chloronaphthalene	ug/kg	0.067U mg/kg	ND		
2-Chlorophenol	ug/kg	0.093U mg/kg	ND		
2-Methylnaphthalene	ug/kg	0.073U mg/kg	ND		
2-Methylphenol(o-Cresol)	ug/kg	0.10U mg/kg	ND		
2-Nitroaniline	ug/kg	0.11U mg/kg	ND		
2-Nitrophenol	ug/kg	0.083U mg/kg	ND		
3&4-Methylphenol(m&p Cresol)	ug/kg	0.13U mg/kg	ND		
3,3'-Dichlorobenzidine	ug/kg	0.075U mg/kg	ND		
3-Nitroaniline	ug/kg	0.093U mg/kg	ND		
4,6-Dinitro-2-methylphenol	ug/kg	0.068U mg/kg	ND		
4-Bromophenylphenyl ether	ug/kg	0.062U mg/kg	ND		
4-Chloro-3-methylphenol	ug/kg	0.070U mg/kg	ND		
4-Chloroaniline	ug/kg	0.095U mg/kg	ND		
4-Chlorophenylphenyl ether	ug/kg	0.070U mg/kg	ND		
4-Nitroaniline	ug/kg	0.096U mg/kg	ND		
4-Nitrophenol	ug/kg	0.061U mg/kg	ND		
Acenaphthene	ug/kg	0.079U mg/kg	ND		
Acenaphthylene	ug/kg	0.081U mg/kg	ND		
Aniline	ug/kg	0.092U mg/kg	ND		
Anthracene	ug/kg	0.077U mg/kg	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2206142

Parameter	Units	35373070013 Result	Dup Result	RPD	Qualifiers
Benzo(a)anthracene	ug/kg	0.063U mg/kg	ND		
Benzo(a)pyrene	ug/kg	0.065U mg/kg	ND		
Benzo(b)fluoranthene	ug/kg	0.059U mg/kg	ND		
Benzo(g,h,i)perylene	ug/kg	0.087U mg/kg	ND		
Benzo(k)fluoranthene	ug/kg	0.067U mg/kg	ND		
Benzoic Acid	ug/kg	0.062U mg/kg	ND		
Benzyl alcohol	ug/kg	0.068U mg/kg	ND		
bis(2-Chloroethoxy)methane	ug/kg	0.080U mg/kg	ND		
bis(2-Chloroethyl) ether	ug/kg	0.087U mg/kg	ND		
bis(2-Ethylhexyl)phthalate	ug/kg	0.093U mg/kg	ND		
Butylbenzylphthalate	ug/kg	0.072U mg/kg	ND		
Chrysene	ug/kg	0.046U mg/kg	ND		
Di-n-butylphthalate	ug/kg	0.056U mg/kg	ND		
Di-n-octylphthalate	ug/kg	0.071U mg/kg	ND		
Dibenz(a,h)anthracene	ug/kg	0.072U mg/kg	ND		
Dibenzofuran	ug/kg	0.056U mg/kg	ND		
Diethylphthalate	ug/kg	0.053U mg/kg	ND		
Dimethylphthalate	ug/kg	0.069U mg/kg	ND		
Fluoranthene	ug/kg	0.050U mg/kg	ND		
Fluorene	ug/kg	0.070U mg/kg	ND		
Hexachloro-1,3-butadiene	ug/kg	0.059U mg/kg	ND		
Hexachlorobenzene	ug/kg	0.043U mg/kg	ND		
Hexachlorocyclopentadiene	ug/kg	0.063U mg/kg	ND		
Hexachloroethane	ug/kg	0.090U mg/kg	ND		
Indeno(1,2,3-cd)pyrene	ug/kg	0.070U mg/kg	ND		
Isophorone	ug/kg	0.077U mg/kg	ND		
N-Nitroso-di-n-propylamine	ug/kg	0.065U mg/kg	ND		
N-Nitrosodimethylamine	ug/kg	0.11U mg/kg	ND		
N-Nitrosodiphenylamine	ug/kg	0.10U mg/kg	ND		
Naphthalene	ug/kg	0.084U mg/kg	ND		
Nitrobenzene	ug/kg	0.093U mg/kg	ND		
Pentachlorophenol	ug/kg	0.062U mg/kg	ND		
Phenanthrene	ug/kg	0.057U mg/kg	ND		
Phenol	ug/kg	0.10U mg/kg	ND		
Pyrene	ug/kg	0.058U mg/kg	ND		
2,4,6-Tribromophenol (S)	%	38	46	22	
2-Fluorobiphenyl (S)	%	55	54	1	
2-Fluorophenol (S)	%	51	56	12	
Nitrobenzene-d5 (S)	%	57	55	2	
Phenol-d6 (S)	%	53	53	1	
Terphenyl-d14 (S)	%	62	62	2	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 398411
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 92372721001

METHOD BLANK: 2209880
Matrix: Solid
Associated Lab Samples: 92372721001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	336	02/19/18 13:01	
1,2-Dichlorobenzene	ug/kg	ND	336	02/19/18 13:01	
1,3-Dichlorobenzene	ug/kg	ND	336	02/19/18 13:01	
1,4-Dichlorobenzene	ug/kg	ND	336	02/19/18 13:01	
1-Methylnaphthalene	ug/kg	ND	336	02/19/18 13:01	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	336	02/19/18 13:01	
2,4,5-Trichlorophenol	ug/kg	ND	336	02/19/18 13:01	
2,4,6-Trichlorophenol	ug/kg	ND	336	02/19/18 13:01	
2,4-Dichlorophenol	ug/kg	ND	336	02/19/18 13:01	
2,4-Dimethylphenol	ug/kg	ND	336	02/19/18 13:01	
2,4-Dinitrophenol	ug/kg	ND	1680	02/19/18 13:01	
2,4-Dinitrotoluene	ug/kg	ND	336	02/19/18 13:01	
2,6-Dinitrotoluene	ug/kg	ND	336	02/19/18 13:01	
2-Chloronaphthalene	ug/kg	ND	336	02/19/18 13:01	
2-Chlorophenol	ug/kg	ND	336	02/19/18 13:01	
2-Methylnaphthalene	ug/kg	ND	336	02/19/18 13:01	
2-Methylphenol(o-Cresol)	ug/kg	ND	336	02/19/18 13:01	
2-Nitroaniline	ug/kg	ND	1680	02/19/18 13:01	
2-Nitrophenol	ug/kg	ND	336	02/19/18 13:01	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	336	02/19/18 13:01	
3,3'-Dichlorobenzidine	ug/kg	ND	1680	02/19/18 13:01	
3-Nitroaniline	ug/kg	ND	1680	02/19/18 13:01	
4,6-Dinitro-2-methylphenol	ug/kg	ND	671	02/19/18 13:01	
4-Bromophenylphenyl ether	ug/kg	ND	336	02/19/18 13:01	
4-Chloro-3-methylphenol	ug/kg	ND	671	02/19/18 13:01	
4-Chloroaniline	ug/kg	ND	1680	02/19/18 13:01	
4-Chlorophenylphenyl ether	ug/kg	ND	336	02/19/18 13:01	
4-Nitroaniline	ug/kg	ND	671	02/19/18 13:01	
4-Nitrophenol	ug/kg	ND	1680	02/19/18 13:01	
Acenaphthene	ug/kg	ND	336	02/19/18 13:01	
Acenaphthylene	ug/kg	ND	336	02/19/18 13:01	
Aniline	ug/kg	ND	336	02/19/18 13:01	
Anthracene	ug/kg	ND	336	02/19/18 13:01	
Benzo(a)anthracene	ug/kg	ND	336	02/19/18 13:01	
Benzo(a)pyrene	ug/kg	ND	336	02/19/18 13:01	
Benzo(b)fluoranthene	ug/kg	ND	336	02/19/18 13:01	
Benzo(g,h,i)perylene	ug/kg	ND	336	02/19/18 13:01	
Benzo(k)fluoranthene	ug/kg	ND	336	02/19/18 13:01	
Benzoic Acid	ug/kg	ND	1680	02/19/18 13:01	
Benzyl alcohol	ug/kg	ND	671	02/19/18 13:01	
bis(2-Chloroethoxy)methane	ug/kg	ND	336	02/19/18 13:01	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

METHOD BLANK: 2209880 Matrix: Solid
Associated Lab Samples: 92372721001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	ND	336	02/19/18 13:01	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	336	02/19/18 13:01	
Butylbenzylphthalate	ug/kg	ND	336	02/19/18 13:01	
Chrysene	ug/kg	ND	336	02/19/18 13:01	
Di-n-butylphthalate	ug/kg	ND	336	02/19/18 13:01	
Di-n-octylphthalate	ug/kg	ND	336	02/19/18 13:01	
Dibenz(a,h)anthracene	ug/kg	ND	336	02/19/18 13:01	
Dibenzofuran	ug/kg	ND	336	02/19/18 13:01	
Diethylphthalate	ug/kg	ND	336	02/19/18 13:01	
Dimethylphthalate	ug/kg	ND	336	02/19/18 13:01	
Fluoranthene	ug/kg	ND	336	02/19/18 13:01	
Fluorene	ug/kg	ND	336	02/19/18 13:01	
Hexachloro-1,3-butadiene	ug/kg	ND	336	02/19/18 13:01	
Hexachlorobenzene	ug/kg	ND	336	02/19/18 13:01	
Hexachlorocyclopentadiene	ug/kg	ND	336	02/19/18 13:01	
Hexachloroethane	ug/kg	ND	336	02/19/18 13:01	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	336	02/19/18 13:01	
Isophorone	ug/kg	ND	336	02/19/18 13:01	
N-Nitroso-di-n-propylamine	ug/kg	ND	336	02/19/18 13:01	
N-Nitrosodimethylamine	ug/kg	ND	336	02/19/18 13:01	
N-Nitrosodiphenylamine	ug/kg	ND	336	02/19/18 13:01	
Naphthalene	ug/kg	ND	336	02/19/18 13:01	
Nitrobenzene	ug/kg	ND	336	02/19/18 13:01	
Pentachlorophenol	ug/kg	ND	1680	02/19/18 13:01	
Phenanthrene	ug/kg	ND	336	02/19/18 13:01	
Phenol	ug/kg	ND	336	02/19/18 13:01	
Pyrene	ug/kg	ND	336	02/19/18 13:01	
2,4,6-Tribromophenol (S)	%	94	27-110	02/19/18 13:01	
2-Fluorobiphenyl (S)	%	83	30-110	02/19/18 13:01	
2-Fluorophenol (S)	%	73	13-110	02/19/18 13:01	
Nitrobenzene-d5 (S)	%	79	23-110	02/19/18 13:01	
Phenol-d6 (S)	%	76	22-110	02/19/18 13:01	
Terphenyl-d14 (S)	%	105	28-110	02/19/18 13:01	

LABORATORY CONTROL SAMPLE: 2209881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	856	751	88	36-120	
1,2-Dichlorobenzene	ug/kg	856	717	84	41-120	
1,3-Dichlorobenzene	ug/kg	856	680	79	66-120	
1,4-Dichlorobenzene	ug/kg	856	708	83	42-120	
1-Methylnaphthalene	ug/kg	856	794	93	40-120	
2,2'-Oxybis(1-chloropropane)	ug/kg	856	632	74	17-120	
2,4,5-Trichlorophenol	ug/kg	856	739	86	37-120	

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(828)254-7176

QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2209881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/kg	856	781	91	40-120	
2,4-Dichlorophenol	ug/kg	856	791	92	33-120	
2,4-Dimethylphenol	ug/kg	856	792	92	36-120	
2,4-Dinitrophenol	ug/kg	4280	3560	83	22-121	
2,4-Dinitrotoluene	ug/kg	856	851	99	60-120	
2,6-Dinitrotoluene	ug/kg	856	737	86	54-120	
2-Chloronaphthalene	ug/kg	856	719	84	41-120	
2-Chlorophenol	ug/kg	856	741	86	39-120	
2-Methylnaphthalene	ug/kg	856	777	91	26-120	
2-Methylphenol(o-Cresol)	ug/kg	856	813	95	41-120	
2-Nitroaniline	ug/kg	1710	1310J	76	45-120	
2-Nitrophenol	ug/kg	856	713	83	35-120	
3&4-Methylphenol(m&p Cresol)	ug/kg	856	769	90	35-120	
3,3'-Dichlorobenzidine	ug/kg	1710	1390J	81	16-125	
3-Nitroaniline	ug/kg	1710	1430J	83	45-120	
4,6-Dinitro-2-methylphenol	ug/kg	1710	1690	99	46-120	
4-Bromophenylphenyl ether	ug/kg	856	843	98	36-120	
4-Chloro-3-methylphenol	ug/kg	1710	1600	93	37-120	
4-Chloroaniline	ug/kg	1710	1480J	86	35-120	
4-Chlorophenylphenyl ether	ug/kg	856	819	96	30-120	
4-Nitroaniline	ug/kg	1710	1560	91	48-120	
4-Nitrophenol	ug/kg	4280	3630	85	43-120	
Acenaphthene	ug/kg	856	770	90	46-120	
Acenaphthylene	ug/kg	856	759	89	46-120	
Aniline	ug/kg	856	644	75	33-120	
Anthracene	ug/kg	856	803	94	63-120	
Benzo(a)anthracene	ug/kg	856	753	88	61-120	
Benzo(a)pyrene	ug/kg	856	805	94	59-120	
Benzo(b)fluoranthene	ug/kg	856	769	90	55-120	
Benzo(g,h,i)perylene	ug/kg	856	822	96	57-120	
Benzo(k)fluoranthene	ug/kg	856	869	101	56-120	
Benzoic Acid	ug/kg	4280	2940	69	13-120	
Benzyl alcohol	ug/kg	1710	1490	87	34-120	
bis(2-Chloroethoxy)methane	ug/kg	856	758	89	21-120	
bis(2-Chloroethyl) ether	ug/kg	856	755	88	25-120	
bis(2-Ethylhexyl)phthalate	ug/kg	856	810	95	56-123	
Butylbenzylphthalate	ug/kg	856	782	91	57-120	
Chrysene	ug/kg	856	771	90	64-120	
Di-n-butylphthalate	ug/kg	856	886	104	58-120	
Di-n-octylphthalate	ug/kg	856	772	90	47-121	
Dibenz(a,h)anthracene	ug/kg	856	759	89	56-120	
Dibenzofuran	ug/kg	856	802	94	43-120	
Diethylphthalate	ug/kg	856	899	105	55-120	
Dimethylphthalate	ug/kg	856	827	97	54-120	
Fluoranthene	ug/kg	856	837	98	61-120	
Fluorene	ug/kg	856	835	98	51-120	
Hexachloro-1,3-butadiene	ug/kg	856	817	95	22-120	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

LABORATORY CONTROL SAMPLE: 2209881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/kg	856	874	102	53-120	
Hexachlorocyclopentadiene	ug/kg	856	719	84	18-150	
Hexachloroethane	ug/kg	856	781	91	39-120	
Indeno(1,2,3-cd)pyrene	ug/kg	856	840	98	58-120	
Isophorone	ug/kg	856	722	84	38-120	
N-Nitroso-di-n-propylamine	ug/kg	856	793	93	30-120	
N-Nitrosodimethylamine	ug/kg	856	578	68	32-120	
N-Nitrosodiphenylamine	ug/kg	856	783	91	50-120	
Naphthalene	ug/kg	856	751	88	38-120	
Nitrobenzene	ug/kg	856	688	80	37-120	
Pentachlorophenol	ug/kg	1710	1340J	78	10-120	
Phenanthrene	ug/kg	856	811	95	62-120	
Phenol	ug/kg	856	772	90	37-120	
Pyrene	ug/kg	856	737	86	63-120	
2,4,6-Tribromophenol (S)	%			109	27-110	
2-Fluorobiphenyl (S)	%			85	30-110	
2-Fluorophenol (S)	%			78	13-110	
Nitrobenzene-d5 (S)	%			81	23-110	
Phenol-d6 (S)	%			82	22-110	
Terphenyl-d14 (S)	%			97	28-110	

MATRIX SPIKE SAMPLE: 2209882

Parameter	Units	92372721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	1050	760	73	18-119	
1,2-Dichlorobenzene	ug/kg	ND	1050	698	67	50-110	
1,3-Dichlorobenzene	ug/kg	ND	1050	675	65	27-110	
1,4-Dichlorobenzene	ug/kg	ND	1050	675	65	28-110	
1-Methylnaphthalene	ug/kg	3660	1050	5340	161	24-116	M1
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	1050	563	54	50-150	
2,4,5-Trichlorophenol	ug/kg	ND	1050	ND	0	28-110	M1
2,4,6-Trichlorophenol	ug/kg	ND	1050	ND	0	17-117	M1
2,4-Dichlorophenol	ug/kg	ND	1050	ND	0	21-128	M1
2,4-Dimethylphenol	ug/kg	ND	1050	711	68	10-120	
2,4-Dinitrophenol	ug/kg	ND	5220	ND	0	10-107	M1
2,4-Dinitrotoluene	ug/kg	ND	1050	1030	99	36-109	
2,6-Dinitrotoluene	ug/kg	ND	1050	580	56	32-110	
2-Chloronaphthalene	ug/kg	ND	1050	678	65	30-107	
2-Chlorophenol	ug/kg	ND	1050	ND	6	14-106	M1
2-Methylnaphthalene	ug/kg	5640	1050	8020	228	10-135	M1
2-Methylphenol(o-Cresol)	ug/kg	ND	1050	588	56	10-124	
2-Nitroaniline	ug/kg	ND	2090	1020J	49	26-116	
2-Nitrophenol	ug/kg	ND	1050	ND	0	28-103	M1
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1050	440	42	10-109	
3,3'-Dichlorobenzidine	ug/kg	ND	2090	1050J	50	10-150	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2209882

Parameter	Units	92372721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/kg	ND	2090	1280J	61	22-110	
4,6-Dinitro-2-methylphenol	ug/kg	ND	2090	ND	0	13-121	M1
4-Bromophenylphenyl ether	ug/kg	ND	1050	923	88	31-109	
4-Chloro-3-methylphenol	ug/kg	ND	2090	842	40	13-128	
4-Chloroaniline	ug/kg	ND	2090	961J	46	18-102	
4-Chlorophenylphenyl ether	ug/kg	ND	1050	811	78	29-112	
4-Nitroaniline	ug/kg	ND	2090	1400	67	16-111	
4-Nitrophenol	ug/kg	ND	5220	ND	0	14-135	M1
Acenaphthene	ug/kg	ND	1050	1210	116	26-114	M1
Acenaphthylene	ug/kg	ND	1050	836	80	32-108	
Aniline	ug/kg	ND	1050	371J	36	10-107	
Anthracene	ug/kg	ND	1050	1030	99	32-111	
Benzo(a)anthracene	ug/kg	ND	1050	878	84	25-117	
Benzo(a)pyrene	ug/kg	ND	1050	853	82	25-106	
Benzo(b)fluoranthene	ug/kg	ND	1050	866	83	24-110	
Benzo(g,h,i)perylene	ug/kg	ND	1050	878	84	19-112	
Benzo(k)fluoranthene	ug/kg	ND	1050	836	80	24-114	
Benzoic Acid	ug/kg	ND	5220	ND	0	10-110	M1
Benzyl alcohol	ug/kg	ND	2090	1320	63	24-106	
bis(2-Chloroethoxy)methane	ug/kg	ND	1050	832	80	13-119	
bis(2-Chloroethyl) ether	ug/kg	ND	1050	665	64	10-134	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1050	962	92	10-125	
Butylbenzylphthalate	ug/kg	ND	1050	893	85	18-110	
Chrysene	ug/kg	ND	1050	885	81	30-110	
Di-n-butylphthalate	ug/kg	ND	1050	1100	105	19-112	
Di-n-octylphthalate	ug/kg	ND	1050	1100	105	17-105	
Dibenz(a,h)anthracene	ug/kg	ND	1050	814	78	23-111	
Dibenzofuran	ug/kg	ND	1050	1020	97	35-103	
Diethylphthalate	ug/kg	ND	1050	865	83	27-113	
Dimethylphthalate	ug/kg	ND	1050	780	75	26-111	
Fluoranthene	ug/kg	ND	1050	1150	110	33-109	M1
Fluorene	ug/kg	ND	1050	1280	122	32-113	M1
Hexachloro-1,3-butadiene	ug/kg	ND	1050	816	78	16-116	
Hexachlorobenzene	ug/kg	ND	1050	969	93	27-120	
Hexachlorocyclopentadiene	ug/kg	ND	1050	544	52	10-108	
Hexachloroethane	ug/kg	ND	1050	1750	168	10-117	M1
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1050	908	87	10-122	
Isophorone	ug/kg	ND	1050	787	75	28-114	
N-Nitroso-di-n-propylamine	ug/kg	ND	1050	879	84	27-113	
N-Nitrosodimethylamine	ug/kg	ND	1050	490	47	10-109	
N-Nitrosodiphenylamine	ug/kg	ND	1050	1860	178	10-128	M1
Naphthalene	ug/kg	1880	1050	1980	10	25-110	M1
Nitrobenzene	ug/kg	ND	1050	712	68	18-114	
Pentachlorophenol	ug/kg	ND	2090	ND	0	10-122	M1
Phenanthrene	ug/kg	1940	1050	2460	50	30-114	
Phenol	ug/kg	ND	1050	194J	19	11-102	
Pyrene	ug/kg	447	1050	1130	65	25-116	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

MATRIX SPIKE SAMPLE: 2209882

Parameter	Units	92372721001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				1	27-110	S0
2-Fluorobiphenyl (S)	%				61	30-110	
2-Fluorophenol (S)	%				2	13-110	S0
Nitrobenzene-d5 (S)	%				64	23-110	
Phenol-d6 (S)	%				15	22-110	S0
Terphenyl-d14 (S)	%				78	28-110	

SAMPLE DUPLICATE: 2209883

Parameter	Units	92372627011 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
1-Methylnaphthalene	ug/kg	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	ND		
2,4,5-Trichlorophenol	ug/kg	ND	ND		
2,4,6-Trichlorophenol	ug/kg	ND	ND		
2,4-Dichlorophenol	ug/kg	ND	ND		
2,4-Dimethylphenol	ug/kg	ND	ND		
2,4-Dinitrophenol	ug/kg	ND	ND		
2,4-Dinitrotoluene	ug/kg	ND	ND		
2,6-Dinitrotoluene	ug/kg	ND	ND		
2-Chloronaphthalene	ug/kg	ND	ND		
2-Chlorophenol	ug/kg	ND	ND		
2-Methylnaphthalene	ug/kg	ND	ND		
2-Methylphenol(o-Cresol)	ug/kg	ND	ND		
2-Nitroaniline	ug/kg	ND	ND		
2-Nitrophenol	ug/kg	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	ND		
3,3'-Dichlorobenzidine	ug/kg	ND	ND		
3-Nitroaniline	ug/kg	ND	ND		
4,6-Dinitro-2-methylphenol	ug/kg	ND	ND		
4-Bromophenylphenyl ether	ug/kg	ND	87.8J		
4-Chloro-3-methylphenol	ug/kg	ND	ND		
4-Chloroaniline	ug/kg	ND	ND		
4-Chlorophenylphenyl ether	ug/kg	ND	ND		
4-Nitroaniline	ug/kg	ND	ND		
4-Nitrophenol	ug/kg	ND	ND		
Acenaphthene	ug/kg	ND	ND		
Acenaphthylene	ug/kg	ND	ND		
Aniline	ug/kg	ND	ND		
Anthracene	ug/kg	ND	ND		
Benzo(a)anthracene	ug/kg	ND	ND		
Benzo(a)pyrene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

SAMPLE DUPLICATE: 2209883

Parameter	Units	92372627011 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/kg	ND	ND		
Benzo(g,h,i)perylene	ug/kg	ND	ND		
Benzo(k)fluoranthene	ug/kg	ND	ND		
Benzoic Acid	ug/kg	ND	ND		
Benzyl alcohol	ug/kg	ND	ND		
bis(2-Chloroethoxy)methane	ug/kg	ND	ND		
bis(2-Chloroethyl) ether	ug/kg	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/kg	ND	ND		
Butylbenzylphthalate	ug/kg	ND	ND		
Chrysene	ug/kg	ND	ND		
Di-n-butylphthalate	ug/kg	ND	79.3J		
Di-n-octylphthalate	ug/kg	ND	ND		
Dibenz(a,h)anthracene	ug/kg	ND	ND		
Dibenzofuran	ug/kg	ND	ND		
Diethylphthalate	ug/kg	ND	ND		
Dimethylphthalate	ug/kg	ND	ND		
Fluoranthene	ug/kg	ND	ND		
Fluorene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Hexachlorobenzene	ug/kg	ND	ND		
Hexachlorocyclopentadiene	ug/kg	ND	ND		
Hexachloroethane	ug/kg	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND		
Isophorone	ug/kg	ND	ND		
N-Nitroso-di-n-propylamine	ug/kg	ND	ND		
N-Nitrosodimethylamine	ug/kg	ND	ND		
N-Nitrosodiphenylamine	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
Nitrobenzene	ug/kg	ND	ND		
Pentachlorophenol	ug/kg	ND	ND		
Phenanthrene	ug/kg	ND	ND		
Phenol	ug/kg	ND	ND		
Pyrene	ug/kg	ND	ND		
2,4,6-Tribromophenol (S)	%	75	76	0	
2-Fluorobiphenyl (S)	%	57	65	11	
2-Fluorophenol (S)	%	64	72	11	
Nitrobenzene-d5 (S)	%	97	65	41	
Phenol-d6 (S)	%	61	55	11	
Terphenyl-d14 (S)	%	80	59	31	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397650 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92372721001, 92372721002, 92372721003, 92372721004, 92372721005, 92372721006, 92372721007, 92372721008, 92372721009, 92372721010, 92372721011, 92372721012, 92372721013, 92372721014, 92372721015, 92372721016, 92372721017, 92372721018

SAMPLE DUPLICATE: 2205478

Parameter	Units	92372770001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.2	16.4	5	

SAMPLE DUPLICATE: 2205479

Parameter	Units	92372721018 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.7	15.9	11	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397651
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92372721023

SAMPLE DUPLICATE: 2205487

Parameter	Units	2070351001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	2.5	2.6	2	

SAMPLE DUPLICATE: 2205488

Parameter	Units	92372757013 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.2	14.0	2	

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QUALITY CONTROL DATA

Project: DREXEL
Pace Project No.: 92372721

QC Batch: 397979 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Modified Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 92372721016, 92372721017, 92372721023

METHOD BLANK: 2207254 Matrix: Solid
Associated Lab Samples: 92372721016, 92372721017, 92372721023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	5.0	02/14/18 13:31	

LABORATORY CONTROL SAMPLE: 2207255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	25	25.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207256 2207257

Parameter	Units	92371772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	33.0	22.3	21.2	70.3	54.6	167	102	75-125	25	M6,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207258 2207259

Parameter	Units	92372053001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	ND	29.7	27.8	27.5	27.1	92	97	75-125	1	

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QUALIFIERS

Project: DREXEL
Pace Project No.: 92372721

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DREXEL
Pace Project No.: 92372721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92372721001	**GP-6**	EPA 3050	398164	EPA 6010	398484
92372721002	**GP-7**	EPA 3050	398164	EPA 6010	398484
92372721003	**GP-8**	EPA 3050	398164	EPA 6010	398484
92372721004	**GP-9**	EPA 3050	398164	EPA 6010	398484
92372721005	**GP-10**	EPA 3050	398164	EPA 6010	398484
92372721006	**GP-7D**	EPA 3050	398164	EPA 6010	398484
92372721007	**GP-11**	EPA 3050	398164	EPA 6010	398484
92372721008	**GP-12**	EPA 3050	398164	EPA 6010	398484
92372721009	**GP-13**	EPA 3050	398164	EPA 6010	398484
92372721010	**GP-14**	EPA 3050	398164	EPA 6010	398484
92372721011	**GP-15**	EPA 3050	398164	EPA 6010	398484
92372721012	**GP-16**	EPA 3050	398164	EPA 6010	398484
92372721013	**GP-17**	EPA 3050	398164	EPA 6010	398484
92372721014	**GP-18**	EPA 3050	398164	EPA 6010	398484
92372721015	**GP-19**	EPA 3050	398164	EPA 6010	398484
92372721016	**GP-20**	EPA 3050	398164	EPA 6010	398484
92372721017	**GP-21**	EPA 3050	398164	EPA 6010	398484
92372721018	**GP-17D**	EPA 3050	398164	EPA 6010	398484
92372721023	**GP-20D**	EPA 3050	398164	EPA 6010	398484
92372721020	**R-3**	EPA 3010A	397720	EPA 6010	397755
92372721022	**R-4**	EPA 3010A	398583	EPA 6010	398592
92372721020	**R-3**	EPA 7470	397894	EPA 7470	398034
92372721022	**R-4**	EPA 7470	397894	EPA 7470	398034
92372721001	**GP-6**	EPA 7471	398216	EPA 7471	398297
92372721002	**GP-7**	EPA 7471	398216	EPA 7471	398297
92372721003	**GP-8**	EPA 7471	398216	EPA 7471	398297
92372721004	**GP-9**	EPA 7471	398216	EPA 7471	398297
92372721005	**GP-10**	EPA 7471	398216	EPA 7471	398297
92372721006	**GP-7D**	EPA 7471	398216	EPA 7471	398297
92372721007	**GP-11**	EPA 7471	398216	EPA 7471	398297
92372721008	**GP-12**	EPA 7471	398216	EPA 7471	398297
92372721009	**GP-13**	EPA 7471	398216	EPA 7471	398297
92372721010	**GP-14**	EPA 7471	398216	EPA 7471	398297
92372721011	**GP-15**	EPA 7471	398216	EPA 7471	398297
92372721012	**GP-16**	EPA 7471	398216	EPA 7471	398297
92372721013	**GP-17**	EPA 7471	398216	EPA 7471	398297
92372721014	**GP-18**	EPA 7471	398216	EPA 7471	398297
92372721015	**GP-19**	EPA 7471	398216	EPA 7471	398297
92372721016	**GP-20**	EPA 7471	398216	EPA 7471	398297
92372721017	**GP-21**	EPA 7471	398216	EPA 7471	398297
92372721018	**GP-17D**	EPA 7471	398216	EPA 7471	398297
92372721023	**GP-20D**	EPA 7471	398216	EPA 7471	398297
92372721020	**R-3**	EPA 3510	397991	EPA 8270	398375
92372721022	**R-4**	EPA 3510	397991	EPA 8270	398375
92372721001	**GP-6**	EPA 3546	398411	EPA 8270	398669

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DREXEL
Pace Project No.: 92372721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92372721002	**GP-7**	EPA 3546	397740	EPA 8270	398152
92372721003	**GP-8**	EPA 3546	397740	EPA 8270	398152
92372721004	**GP-9**	EPA 3546	397740	EPA 8270	398152
92372721005	**GP-10**	EPA 3546	397740	EPA 8270	398152
92372721006	**GP-7D**	EPA 3546	397740	EPA 8270	398152
92372721007	**GP-11**	EPA 3546	397740	EPA 8270	398152
92372721008	**GP-12**	EPA 3546	397773	EPA 8270	398402
92372721009	**GP-13**	EPA 3546	397773	EPA 8270	398402
92372721010	**GP-14**	EPA 3546	397773	EPA 8270	398402
92372721011	**GP-15**	EPA 3546	397773	EPA 8270	398402
92372721012	**GP-16**	EPA 3546	397773	EPA 8270	398402
92372721013	**GP-17**	EPA 3546	397773	EPA 8270	398402
92372721014	**GP-18**	EPA 3546	397773	EPA 8270	398402
92372721015	**GP-19**	EPA 3546	397773	EPA 8270	398402
92372721018	**GP-17D**	EPA 3546	397773	EPA 8270	398402
92372721019	**T-3**	EPA 8260	397552		
92372721020	**R-3**	EPA 8260	397552		
92372721021	**T-4**	EPA 8260	397552		
92372721022	**R-4**	EPA 8260	397552		
92372721001	**GP-6**	EPA 8260	397571		
92372721002	**GP-7**	EPA 8260	397571		
92372721003	**GP-8**	EPA 8260	397571		
92372721004	**GP-9**	EPA 8260	397616		
92372721005	**GP-10**	EPA 8260	397616		
92372721006	**GP-7D**	EPA 8260	397616		
92372721007	**GP-11**	EPA 8260	397616		
92372721008	**GP-12**	EPA 8260	397616		
92372721009	**GP-13**	EPA 8260	397616		
92372721010	**GP-14**	EPA 8260	397616		
92372721011	**GP-15**	EPA 8260	397616		
92372721012	**GP-16**	EPA 8260	397616		
92372721013	**GP-17**	EPA 8260	397616		
92372721014	**GP-18**	EPA 8260	397616		
92372721015	**GP-19**	EPA 8260	397785		
92372721018	**GP-17D**	EPA 8260	397616		
92372721001	**GP-6**	ASTM D2974-87	397650		
92372721002	**GP-7**	ASTM D2974-87	397650		
92372721003	**GP-8**	ASTM D2974-87	397650		
92372721004	**GP-9**	ASTM D2974-87	397650		
92372721005	**GP-10**	ASTM D2974-87	397650		
92372721006	**GP-7D**	ASTM D2974-87	397650		
92372721007	**GP-11**	ASTM D2974-87	397650		
92372721008	**GP-12**	ASTM D2974-87	397650		
92372721009	**GP-13**	ASTM D2974-87	397650		
92372721010	**GP-14**	ASTM D2974-87	397650		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DREXEL
Pace Project No.: 92372721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92372721011	**GP-15**	ASTM D2974-87	397650		
92372721012	**GP-16**	ASTM D2974-87	397650		
92372721013	**GP-17**	ASTM D2974-87	397650		
92372721014	**GP-18**	ASTM D2974-87	397650		
92372721015	**GP-19**	ASTM D2974-87	397650		
92372721016	**GP-20**	ASTM D2974-87	397650		
92372721017	**GP-21**	ASTM D2974-87	397650		
92372721018	**GP-17D**	ASTM D2974-87	397650		
92372721023	**GP-20D**	ASTM D2974-87	397651		
92372721016	**GP-20**	EPA 7196 Modified	397979	EPA 7196	398042
92372721017	**GP-21**	EPA 7196 Modified	397979	EPA 7196	398042
92372721023	**GP-20D**	EPA 7196 Modified	397979	EPA 7196	398042

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: January 24, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.05	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: ECS

Project #: WO#: 92372721

92372721

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/18 MG

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: T027

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 4.5|3.7 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 4.5|3.7

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

		Comments/Discrepancy:
Chain of Custody Present?	☑ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☑ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☑ No ☐ N/A	4.
Sufficient Volume?	☑ Yes ☐ No ☐ N/A	5.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☐ No ☐ N/A ☑ Yes ☐ No ☐ N/A	6.
Containers Intact?	☑ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☑ No ☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL/WT	☑ Yes ☐ No ☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☑ No ☐ N/A	10.
Trip Blank Present?	☑ Yes ☐ No ☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes ☐ No ☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: JR Date: 2/12

Project Manager SRF Review: JR Date: 2/12

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # WO#: 92372721

PM: PTE Due Date: 02/16/18

CLIENT: 93-ECS ASH

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	4 vial Kit	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1									2																1				
2									2																1				
3									2																1				
4									2																1				
5									2																1				
6									2																1				
7									2																1				
8									2																1				
9									2																1				
10									2																1				
11									2																1				
12									2																1				

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1									2																1			
2									2																1			
3									2																1			
4									1																			
5									1																			
6									2																1			
7																2												
8						1				2						6												
9																2												
10						1				2						6												
11									1																			
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1984823

Section A Required Client Information:
Company: ECS
Address: 1900 Hendersonville Rd, Ste 310 Asheville, NC
Email To: JBevens@ecslimited.com
Phone: 828-665-9307 Fax:
Requested Due Date/TAT: 5

Section B Required Project Information:
Report To: Jim Bevens
Copy To:
Purchase Order No.:
Project Name: Drexel
Project Number:

Section C Invoice Information:
Attention: Jim Bevens
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	8260 VOCs +1, Y/Oxane	8270 SVOCs	6010 Tot+Diss Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-6	SL	G			2/7	0915		6	X					XX				XX	XX	XX			001
2	GP-7	SL	G			2/7	0935		6	X					XX				XX	XX	XX			002
3	GP-8	SL	G			2/7	1210		6	X					XX				XX	XX	XX			003
4	GP-9	SL	G			2/7	1310		6	X					XX				XX	XX	XX			004
5	GP-10	SL	G			2/7	1445		6	X					XX				XX	XX	XX			005
6	GP-7D	SL	G			2/7	0935		6	X					XX				XX	XX	XX			006
7	GP-11	SL	G			2/7	1515		6	X					XX				XX	XX	XX			007
8	GP-12	SL	G			2/7	1540		6	X					XX				XX	XX	XX			008
9	GP-13	SL	G			2/7	1600		6	X					XX				XX	XX	XX			009
10	GP-14	SL	G			2/7	1628		6	X					XX				XX	XX	XX			010
11	GP-15	SL	G			2/8	1130		6	X					XX				XX	XX	XX			011
12	GP-16	SL	G			2/8	1230		6	X					XX				XX	XX	XX			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	/ECS	2/9	930		2/9/18	9:30	4.5	Y	~	Y
							3.7			

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: James C Bevens
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/09/2018

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1984824

Section A Required Client Information:

Company: ECS
Address: 1900 HENDERSONVILLE RD, STE 10 ASHEVILLE, NC
Email To: JBEVERS@ECSLIMITED.COM
Phone: 828-665-2307 Fax:
Requested Due Date/TAT: 5

Section B Required Project Information:

Report To: Jim Bevers
Copy To:
Purchase Order No.:
Project Name: DREXEL
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 VOC H/V Drexel	8270 SVOC	6010 Total RCRA Metals	Hex Chrome	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9237721
1	GP-17	SL	G			2/8	1255		6	X					XX			XX	XX	XX			013
2	GP-18	SL	G			2/8	1315		6	X					XX			XX	XX	XX			014
3	GP-19	SL	G			2/8	1340		6	X					XX			XX	XX	XX			015
4	GP-20	SL	G			2/8	1505		1	X									XX	XX			016
5	GP-21	SL	G			2/8	1715		1	X									XX	XX			017
6	GP-17D	SL	G			2/8	1255		6	X					XX			XX	XX	XX			018
7	T-3	WT	G			2/7	1100		2				X					XX	XX	XX			019
8	R-3	WT	G			2/7	1815		9	X		XX						XX	XX	XX			020
9	T-4	WT	G			2/7	1830		2				X					XX	XX	XX			021
10	R-4	WT	G			2/8	1745		9	X		XX						XX	XX	XX			022
11	GP-20D	SL	G			2/8	1505		1	X									XX	XX			023
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] ECS	2/9	930	[signature]	2/9/18	9:30	4.5 / 3.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JAMES C BEVERS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/09/2018

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

February 26, 2018

Jim Bevers
ECS Carolinas
1900 Hendersonville Road
Suite 10
Asheville, NC 28803

RE: Project: Drexel
Pace Project No.: 92373788

Dear Jim Bevers:
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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Asheville, NC 28804
(828)254-7176

CERTIFICATIONS

Project: Drexel
Pace Project No.: 92373788

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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(828)254-7176

SAMPLE ANALYTE COUNT

Project: Drexel
Pace Project No.: 92373788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92373788001	**MW-1**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788002	**MW-1D**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788003	**MW-2**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788004	**T-5**	EPA 8260	SWB	64	PASI-C
92373788005	**MW-3**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788006	**MW-9**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788007	**MW-5**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788008	**MW-6**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788009	**T-6**	EPA 8260	SWB	63	PASI-C
92373788010	**MW-7**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788011	**MW-7D**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C

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SAMPLE ANALYTE COUNT

Project: Drexel
Pace Project No.: 92373788

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	SWB	64	PASI-C
92373788012	**MW-10**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788013	**MW-11**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788014	**MW-12**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788015	**MW-8**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788016	**T-7**	EPA 8260	SWB	63	PASI-C
92373788017	**T-8**	EPA 8260	SWB	64	PASI-C
92373788018	**MW-3D**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C
92373788019	**MW-4**	EPA 6010	SH1	7	PASI-A
		EPA 7470	SER	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	SWB	64	PASI-C

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SUMMARY OF DETECTION

Project: Drexel
Pace Project No.: 92373788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92373788001	**MW-1**					
EPA 6010	Barium	402	ug/L	5.0	02/23/18 09:39	
EPA 8260	2-Hexanone	9.3	ug/L	5.0	02/20/18 18:09	
92373788002	**MW-1D**					
EPA 6010	Barium	376	ug/L	5.0	02/23/18 09:42	
EPA 8260	2-Hexanone	8.7	ug/L	5.0	02/20/18 18:25	
92373788003	**MW-2**					
EPA 6010	Arsenic	24.0	ug/L	10.0	02/23/18 09:45	
EPA 6010	Barium	1960	ug/L	5.0	02/23/18 09:45	
EPA 6010	Cadmium	1.9	ug/L	1.0	02/23/18 09:45	
EPA 6010	Chromium	234	ug/L	5.0	02/23/18 09:45	
EPA 6010	Lead	305	ug/L	5.0	02/23/18 09:45	
EPA 6010	Selenium	15.1	ug/L	10.0	02/23/18 09:45	
EPA 7470	Mercury	0.20	ug/L	0.20	02/23/18 13:26	
EPA 8270	Fluorene	24.1	ug/L	10.0	02/21/18 18:58	
EPA 8270	Phenanthrene	16.6	ug/L	10.0	02/21/18 18:58	
EPA 8260	Naphthalene	1.1	ug/L	1.0	02/20/18 18:41	
92373788005	**MW-3**					
EPA 6010	Barium	206	ug/L	5.0	02/23/18 09:48	
92373788006	**MW-9**					
EPA 6010	Barium	74.4	ug/L	5.0	02/23/18 09:51	
EPA 8260	Chloroform	3.0	ug/L	1.0	02/20/18 19:14	
92373788007	**MW-5**					
EPA 6010	Barium	85.9	ug/L	5.0	02/23/18 09:54	
EPA 6010	Lead	5.3	ug/L	5.0	02/23/18 09:54	
EPA 8270	2,4-Dimethylphenol	10.2	ug/L	10.0	02/21/18 21:25	
EPA 8270	1-Methylnaphthalene	76.0	ug/L	10.0	02/21/18 21:25	
EPA 8270	2-Methylnaphthalene	145	ug/L	10.0	02/21/18 21:25	
EPA 8270	Naphthalene	560	ug/L	100	02/22/18 11:17	
EPA 8260	Benzene	149	ug/L	20.0	02/20/18 00:36	
EPA 8260	Ethylbenzene	1480	ug/L	20.0	02/20/18 00:36	
EPA 8260	Naphthalene	456	ug/L	20.0	02/20/18 00:36	
EPA 8260	Styrene	22.4	ug/L	20.0	02/20/18 00:36	
EPA 8260	Toluene	2680	ug/L	20.0	02/20/18 00:36	
EPA 8260	Xylene (Total)	7930	ug/L	20.0	02/20/18 00:36	
EPA 8260	m&p-Xylene	5290	ug/L	40.0	02/20/18 00:36	
EPA 8260	o-Xylene	2640	ug/L	20.0	02/20/18 00:36	
92373788008	**MW-6**					
EPA 6010	Barium	193	ug/L	5.0	02/23/18 09:57	
EPA 6010	Chromium	5.8	ug/L	5.0	02/23/18 09:57	
EPA 8260	Chloroform	22.2	ug/L	1.0	02/20/18 19:30	
92373788010	**MW-7**					
EPA 6010	Barium	114	ug/L	5.0	02/23/18 10:00	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: Drexel
Pace Project No.: 92373788

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92373788011	**MW-7D**					
EPA 6010	Barium	114	ug/L	5.0	02/23/18 10:04	
92373788012	**MW-10**					
EPA 6010	Barium	257	ug/L	5.0	02/23/18 10:13	
92373788013	**MW-11**					
EPA 6010	Arsenic	10.1	ug/L	10.0	02/23/18 10:16	
EPA 6010	Barium	1480	ug/L	5.0	02/23/18 10:16	
EPA 6010	Chromium	32.0	ug/L	5.0	02/23/18 10:16	
EPA 6010	Lead	16.7	ug/L	5.0	02/23/18 10:16	
92373788014	**MW-12**					
EPA 6010	Barium	755	ug/L	5.0	02/23/18 10:19	
EPA 6010	Chromium	12.5	ug/L	5.0	02/23/18 10:19	
EPA 6010	Lead	14.0	ug/L	5.0	02/23/18 10:19	
92373788015	**MW-8**					
EPA 6010	Arsenic	16.8	ug/L	10.0	02/23/18 10:22	
EPA 6010	Barium	897	ug/L	5.0	02/23/18 10:22	
EPA 6010	Cadmium	1.2	ug/L	1.0	02/23/18 10:22	
EPA 6010	Chromium	127	ug/L	5.0	02/23/18 10:22	
EPA 6010	Lead	188	ug/L	5.0	02/23/18 10:22	
EPA 6010	Selenium	14.6	ug/L	10.0	02/23/18 10:22	
EPA 7470	Mercury	0.48	ug/L	0.20	02/23/18 13:54	
92373788018	**MW-3D**					
EPA 6010	Barium	210	ug/L	5.0	02/23/18 20:02	
92373788019	**MW-4**					
EPA 6010	Barium	241	ug/L	5.0	02/23/18 20:05	

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1 **Lab ID: 92373788001** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:39	7440-38-2	
Barium	**402**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:39	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:39	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:39	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:39	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:39	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:39	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:16	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:29	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:29	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:29	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:29	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:29	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:29	51-28-5	

REPORT OF LABORATORY ANALYSIS

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1 **Lab ID: 92373788001** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 18:29	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:29	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:29	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:29	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:29	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 18:29	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	40-121	1	02/21/18 09:51	02/21/18 18:29	4165-60-0	
2-Fluorobiphenyl (S)	49	%	45-139	1	02/21/18 09:51	02/21/18 18:29	321-60-8	
Terphenyl-d14 (S)	70	%	48-146	1	02/21/18 09:51	02/21/18 18:29	1718-51-0	
Phenol-d6 (S)	10	%	18-105	1	02/21/18 09:51	02/21/18 18:29	13127-88-3	S2
2-Fluorophenol (S)	2	%	13-118	1	02/21/18 09:51	02/21/18 18:29	367-12-4	S2
2,4,6-Tribromophenol (S)	25	%	31-170	1	02/21/18 09:51	02/21/18 18:29	118-79-6	S2
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 18:09	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 18:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 18:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 18:09	74-97-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1 **Lab ID: 92373788001** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 18:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 18:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 18:09	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 18:09	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 18:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 18:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 18:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 18:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 18:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 18:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 18:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 18:09	106-93-4	M1
Dibromomethane	ND	ug/L	1.0	1		02/20/18 18:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 18:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:09	594-20-7	M1
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 18:09	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 18:09	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 18:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 18:09	87-68-3	M1
2-Hexanone	**9.3**	ug/L	5.0	1		02/20/18 18:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 18:09	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 18:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 18:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 18:09	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 18:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 18:09	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 18:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:09	120-82-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1 **Lab ID: 92373788001** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 18:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 18:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 18:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 18:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 18:09	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 18:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 18:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 18:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/20/18 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/20/18 18:09	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		02/20/18 18:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1D **Lab ID: 92373788002** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:42	7440-38-2	
Barium	**376**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:42	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:42	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:42	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:42	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:42	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:42	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:24	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	208-96-8	
Aniline	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/19/18 09:40	02/21/18 09:30	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/19/18 09:40	02/21/18 09:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/19/18 09:40	02/21/18 09:30	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/19/18 09:40	02/21/18 09:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/19/18 09:40	02/21/18 09:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/19/18 09:40	02/21/18 09:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/19/18 09:40	02/21/18 09:30	51-28-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1D **Lab ID: 92373788002** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/19/18 09:40	02/21/18 09:30	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/19/18 09:40	02/21/18 09:30	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/19/18 09:40	02/21/18 09:30	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/19/18 09:40	02/21/18 09:30	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/19/18 09:40	02/21/18 09:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/19/18 09:40	02/21/18 09:30	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	85-01-8	
Phenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/19/18 09:40	02/21/18 09:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	51	%	40-121	1	02/19/18 09:40	02/21/18 09:30	4165-60-0	
2-Fluorobiphenyl (S)	50	%	45-139	1	02/19/18 09:40	02/21/18 09:30	321-60-8	
Terphenyl-d14 (S)	60	%	48-146	1	02/19/18 09:40	02/21/18 09:30	1718-51-0	
Phenol-d6 (S)	29	%	18-105	1	02/19/18 09:40	02/21/18 09:30	13127-88-3	
2-Fluorophenol (S)	21	%	13-118	1	02/19/18 09:40	02/21/18 09:30	367-12-4	
2,4,6-Tribromophenol (S)	25	%	31-170	1	02/19/18 09:40	02/21/18 09:30	118-79-6	S0
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 18:25	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 18:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 18:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 18:25	74-97-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1D **Lab ID: 92373788002** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 18:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 18:25	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 18:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 18:25	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 18:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 18:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 18:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 18:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 18:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 18:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 18:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 18:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 18:25	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 18:25	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 18:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 18:25	87-68-3	
2-Hexanone	**8.7**	ug/L	5.0	1		02/20/18 18:25	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 18:25	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 18:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 18:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 18:25	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 18:25	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 18:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:25	120-82-1	

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-1D **Lab ID: 92373788002** Collected: 02/14/18 17:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 18:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 18:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 18:25	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 18:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 18:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 18:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/20/18 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/20/18 18:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/20/18 18:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-2 **Lab ID: 92373788003** Collected: 02/14/18 18:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	**24.0**	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:45	7440-38-2	
Barium	**1960**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:45	7440-39-3	
Cadmium	**1.9**	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:45	7440-43-9	
Chromium	**234**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:45	7440-47-3	
Lead	**305**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:45	7439-92-1	
Selenium	**15.1**	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:45	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:45	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.20**	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:26	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:58	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:58	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:58	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:58	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:58	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:58	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:58	51-28-5	M1

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-2 **Lab ID: 92373788003** Collected: 02/14/18 18:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 18:58	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	206-44-0	
Fluorene	**24.1**	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:58	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:58	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 18:58	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 18:58	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 18:58	87-86-5	
Phenanthrene	**16.6**	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 18:58	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	68	%	40-121	1	02/21/18 09:51	02/21/18 18:58	4165-60-0	
2-Fluorobiphenyl (S)	69	%	45-139	1	02/21/18 09:51	02/21/18 18:58	321-60-8	
Terphenyl-d14 (S)	60	%	48-146	1	02/21/18 09:51	02/21/18 18:58	1718-51-0	
Phenol-d6 (S)	51	%	18-105	1	02/21/18 09:51	02/21/18 18:58	13127-88-3	
2-Fluorophenol (S)	55	%	13-118	1	02/21/18 09:51	02/21/18 18:58	367-12-4	
2,4,6-Tribromophenol (S)	79	%	31-170	1	02/21/18 09:51	02/21/18 18:58	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 18:41	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 18:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 18:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 18:41	74-97-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-2 **Lab ID: 92373788003** Collected: 02/14/18 18:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 18:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 18:41	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 18:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 18:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 18:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 18:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 18:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 18:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 18:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 18:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 18:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 18:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 18:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 18:41	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 18:41	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 18:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 18:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 18:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 18:41	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 18:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 18:41	1634-04-4	
Naphthalene	**1.1**	ug/L	1.0	1		02/20/18 18:41	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 18:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 18:41	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 18:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:41	120-82-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-2 **Lab ID: 92373788003** Collected: 02/14/18 18:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 18:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 18:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 18:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 18:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 18:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 18:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 18:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 18:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/20/18 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/20/18 18:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		02/20/18 18:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-5 **Lab ID: 92373788004** Collected: 02/14/18 18:15 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 17:04	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 17:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 17:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 17:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 17:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 17:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 17:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 17:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 17:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 17:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 17:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 17:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 17:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 17:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 17:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 17:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 17:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 17:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 17:04	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 17:04	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 17:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 17:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 17:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 17:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 17:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 17:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 17:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 17:04	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 17:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:04	79-34-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-5 **Lab ID: 92373788004** Collected: 02/14/18 18:15 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 17:04	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 17:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 17:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 17:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 17:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 17:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 17:04	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 17:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 17:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 17:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/20/18 17:04	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/20/18 17:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		02/20/18 17:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3 **Lab ID: 92373788005** Collected: 02/15/18 10:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:48	7440-38-2	
Barium	**206**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:48	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:48	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:48	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:48	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:48	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:48	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:28	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:26	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:26	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:26	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:26	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:26	51-28-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3 **Lab ID: 92373788005** Collected: 02/15/18 10:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 20:26	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:26	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:26	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:26	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 20:26	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%	40-121	1	02/21/18 09:51	02/21/18 20:26	4165-60-0	
2-Fluorobiphenyl (S)	71	%	45-139	1	02/21/18 09:51	02/21/18 20:26	321-60-8	
Terphenyl-d14 (S)	72	%	48-146	1	02/21/18 09:51	02/21/18 20:26	1718-51-0	
Phenol-d6 (S)	45	%	18-105	1	02/21/18 09:51	02/21/18 20:26	13127-88-3	
2-Fluorophenol (S)	46	%	13-118	1	02/21/18 09:51	02/21/18 20:26	367-12-4	
2,4,6-Tribromophenol (S)	71	%	31-170	1	02/21/18 09:51	02/21/18 20:26	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 18:57	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 18:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 18:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 18:57	74-97-5	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3 **Lab ID: 92373788005** Collected: 02/15/18 10:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 18:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 18:57	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 18:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 18:57	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 18:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 18:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 18:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 18:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 18:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 18:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 18:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 18:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 18:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 18:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 18:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 18:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 18:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 18:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 18:57	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 18:57	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 18:57	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 18:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 18:57	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 18:57	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 18:57	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 18:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 18:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 18:57	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 18:57	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 18:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 18:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 18:57	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 18:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 18:57	120-82-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3 **Lab ID: 92373788005** Collected: 02/15/18 10:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 18:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 18:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 18:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 18:57	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 18:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 18:57	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 18:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 18:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 18:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/20/18 18:57	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/20/18 18:57	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/20/18 18:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-9 **Lab ID: 92373788006** Collected: 02/15/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:51	7440-38-2	
Barium	**74.4**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:51	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:51	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:51	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:51	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:51	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:51	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:31	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:56	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:56	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:56	51-28-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-9 **Lab ID: 92373788006** Collected: 02/15/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 20:56	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:56	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:56	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 20:56	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 20:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 20:56	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 20:56	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	66	%	40-121	1	02/21/18 09:51	02/21/18 20:56	4165-60-0	
2-Fluorobiphenyl (S)	61	%	45-139	1	02/21/18 09:51	02/21/18 20:56	321-60-8	
Terphenyl-d14 (S)	72	%	48-146	1	02/21/18 09:51	02/21/18 20:56	1718-51-0	
Phenol-d6 (S)	32	%	18-105	1	02/21/18 09:51	02/21/18 20:56	13127-88-3	
2-Fluorophenol (S)	30	%	13-118	1	02/21/18 09:51	02/21/18 20:56	367-12-4	
2,4,6-Tribromophenol (S)	57	%	31-170	1	02/21/18 09:51	02/21/18 20:56	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 19:14	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 19:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 19:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 19:14	74-97-5	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-9 **Lab ID: 92373788006** Collected: 02/15/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 19:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 19:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 19:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 19:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 19:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 19:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 19:14	75-00-3	
Chloroform	**3.0**	ug/L	1.0	1		02/20/18 19:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 19:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 19:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 19:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 19:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 19:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 19:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 19:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 19:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 19:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 19:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 19:14	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 19:14	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 19:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 19:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 19:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 19:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 19:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 19:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 19:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 19:14	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 19:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 19:14	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 19:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:14	120-82-1	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-9 **Lab ID: 92373788006** Collected: 02/15/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 19:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 19:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 19:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 19:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 19:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 19:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 19:14	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 19:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 19:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 19:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/20/18 19:14	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/20/18 19:14	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		02/20/18 19:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-5 **Lab ID: 92373788007** Collected: 02/15/18 13:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:54	7440-38-2	
Barium	**85.9**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:54	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:54	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:54	7440-47-3	
Lead	**5.3**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:54	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:54	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:54	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:38	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:25	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:25	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:25	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:25	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:25	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	84-66-2	
2,4-Dimethylphenol	**10.2**	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:25	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:25	51-28-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-5 **Lab ID: 92373788007** Collected: 02/15/18 13:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 21:25	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	78-59-1	
1-Methylnaphthalene	**76.0**	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	90-12-0	
2-Methylnaphthalene	**145**	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	15831-10-4	
Naphthalene	**560**	ug/L	100	10	02/21/18 09:51	02/22/18 11:17	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:25	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:25	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:25	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:25	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 21:25	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:25	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%	40-121	1	02/21/18 09:51	02/21/18 21:25	4165-60-0	
2-Fluorobiphenyl (S)	62	%	45-139	1	02/21/18 09:51	02/21/18 21:25	321-60-8	
Terphenyl-d14 (S)	68	%	48-146	1	02/21/18 09:51	02/21/18 21:25	1718-51-0	
Phenol-d6 (S)	22	%	18-105	1	02/21/18 09:51	02/21/18 21:25	13127-88-3	
2-Fluorophenol (S)	16	%	13-118	1	02/21/18 09:51	02/21/18 21:25	367-12-4	
2,4,6-Tribromophenol (S)	50	%	31-170	1	02/21/18 09:51	02/21/18 21:25	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	20		02/20/18 00:36	67-64-1	
Benzene	**149**	ug/L	20.0	20		02/20/18 00:36	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		02/20/18 00:36	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		02/20/18 00:36	74-97-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-5 **Lab ID: 92373788007** Collected: 02/15/18 13:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	20.0	20		02/20/18 00:36	75-27-4	
Bromoform	ND	ug/L	20.0	20		02/20/18 00:36	75-25-2	
Bromomethane	ND	ug/L	40.0	20		02/20/18 00:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	20		02/20/18 00:36	78-93-3	
Carbon tetrachloride	ND	ug/L	20.0	20		02/20/18 00:36	56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		02/20/18 00:36	108-90-7	
Chloroethane	ND	ug/L	20.0	20		02/20/18 00:36	75-00-3	
Chloroform	ND	ug/L	20.0	20		02/20/18 00:36	67-66-3	
Chloromethane	ND	ug/L	20.0	20		02/20/18 00:36	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		02/20/18 00:36	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		02/20/18 00:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	20		02/20/18 00:36	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		02/20/18 00:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		02/20/18 00:36	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		02/20/18 00:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		02/20/18 00:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	20		02/20/18 00:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	20		02/20/18 00:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		02/20/18 00:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		02/20/18 00:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		02/20/18 00:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	20.0	20		02/20/18 00:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	20.0	20		02/20/18 00:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		02/20/18 00:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	20.0	20		02/20/18 00:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	20.0	20		02/20/18 00:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	20		02/20/18 00:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	20		02/20/18 00:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	20		02/20/18 00:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	20		02/20/18 00:36	10061-02-6	
Diisopropyl ether	ND	ug/L	20.0	20		02/20/18 00:36	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	3000	20		02/20/18 00:36	123-91-1	L1
Ethylbenzene	**1480**	ug/L	20.0	20		02/20/18 00:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	20		02/20/18 00:36	87-68-3	
2-Hexanone	ND	ug/L	100	20		02/20/18 00:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	20.0	20		02/20/18 00:36	99-87-6	
Methylene Chloride	ND	ug/L	40.0	20		02/20/18 00:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	20		02/20/18 00:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		02/20/18 00:36	1634-04-4	
Naphthalene	**456**	ug/L	20.0	20		02/20/18 00:36	91-20-3	
Styrene	**22.4**	ug/L	20.0	20		02/20/18 00:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	20		02/20/18 00:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		02/20/18 00:36	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	20		02/20/18 00:36	127-18-4	
Toluene	**2680**	ug/L	20.0	20		02/20/18 00:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		02/20/18 00:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		02/20/18 00:36	120-82-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-5 **Lab ID: 92373788007** Collected: 02/15/18 13:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	20.0	20		02/20/18 00:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		02/20/18 00:36	79-00-5	
Trichloroethene	ND	ug/L	20.0	20		02/20/18 00:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		02/20/18 00:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	20		02/20/18 00:36	96-18-4	
Vinyl acetate	ND	ug/L	40.0	20		02/20/18 00:36	108-05-4	
Vinyl chloride	ND	ug/L	20.0	20		02/20/18 00:36	75-01-4	
Xylene (Total)	**7930**	ug/L	20.0	20		02/20/18 00:36	1330-20-7	
m&p-Xylene	**5290**	ug/L	40.0	20		02/20/18 00:36	179601-23-1	
o-Xylene	**2640**	ug/L	20.0	20		02/20/18 00:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	20		02/20/18 00:36	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	20		02/20/18 00:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130	20		02/20/18 00:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-6 **Lab ID: 92373788008** Collected: 02/15/18 14:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:57	7440-38-2	
Barium	**193**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:57	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 09:57	7440-43-9	
Chromium	**5.8**	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:57	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:57	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 09:57	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 09:57	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:40	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:54	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:54	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:54	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:54	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:54	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:54	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:54	51-28-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-6 **Lab ID: 92373788008** Collected: 02/15/18 14:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 21:54	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:54	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:54	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 21:54	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 21:54	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 21:54	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 21:54	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	40-121	1	02/21/18 09:51	02/21/18 21:54	4165-60-0	
2-Fluorobiphenyl (S)	61	%	45-139	1	02/21/18 09:51	02/21/18 21:54	321-60-8	
Terphenyl-d14 (S)	68	%	48-146	1	02/21/18 09:51	02/21/18 21:54	1718-51-0	
Phenol-d6 (S)	31	%	18-105	1	02/21/18 09:51	02/21/18 21:54	13127-88-3	
2-Fluorophenol (S)	40	%	13-118	1	02/21/18 09:51	02/21/18 21:54	367-12-4	
2,4,6-Tribromophenol (S)	73	%	31-170	1	02/21/18 09:51	02/21/18 21:54	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 19:30	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 19:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 19:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 19:30	74-97-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-6 **Lab ID: 92373788008** Collected: 02/15/18 14:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 19:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 19:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 19:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 19:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 19:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 19:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 19:30	75-00-3	
Chloroform	**22.2**	ug/L	1.0	1		02/20/18 19:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 19:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 19:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 19:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 19:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 19:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 19:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 19:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 19:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 19:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 19:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 19:30	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 19:30	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 19:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 19:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 19:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 19:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 19:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 19:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 19:30	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 19:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 19:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 19:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 19:30	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 19:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:30	120-82-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-6 **Lab ID: 92373788008** Collected: 02/15/18 14:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 19:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 19:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 19:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 19:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 19:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 19:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 19:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 19:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 19:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 19:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/20/18 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/20/18 19:30	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		02/20/18 19:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-6 **Lab ID: 92373788009** Collected: 02/15/18 15:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 17:20	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 17:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 17:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 17:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 17:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 17:20	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 17:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 17:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 17:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 17:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 17:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 17:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 17:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 17:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 17:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 17:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 17:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 17:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 17:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 17:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 17:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 17:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 17:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 17:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 17:20	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 17:20	127-18-4	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-6 **Lab ID: 92373788009** Collected: 02/15/18 15:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		02/20/18 17:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 17:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 17:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 17:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 17:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 17:20	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 17:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 17:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 17:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/20/18 17:20	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/20/18 17:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		02/20/18 17:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7 **Lab ID: 92373788010** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:00	7440-38-2	
Barium	**114**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:00	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 10:00	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:00	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:00	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:00	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:00	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:42	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 22:23	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 22:23	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 22:23	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 22:23	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 22:23	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 22:23	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 22:23	51-28-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7 **Lab ID: 92373788010** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 22:23	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 22:23	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 22:23	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 22:23	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 22:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 22:23	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 22:23	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	47	%	40-121	1	02/21/18 09:51	02/21/18 22:23	4165-60-0	
2-Fluorobiphenyl (S)	44	%	45-139	1	02/21/18 09:51	02/21/18 22:23	321-60-8	S0
Terphenyl-d14 (S)	73	%	48-146	1	02/21/18 09:51	02/21/18 22:23	1718-51-0	
Phenol-d6 (S)	25	%	18-105	1	02/21/18 09:51	02/21/18 22:23	13127-88-3	
2-Fluorophenol (S)	24	%	13-118	1	02/21/18 09:51	02/21/18 22:23	367-12-4	
2,4,6-Tribromophenol (S)	64	%	31-170	1	02/21/18 09:51	02/21/18 22:23	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 19:46	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 19:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 19:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 19:46	74-97-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7 **Lab ID: 92373788010** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 19:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 19:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 19:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 19:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 19:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 19:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 19:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 19:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 19:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 19:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 19:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 19:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 19:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 19:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 19:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 19:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 19:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 19:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 19:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 19:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 19:46	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 19:46	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 19:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 19:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 19:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 19:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 19:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 19:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 19:46	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 19:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 19:46	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 19:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 19:46	120-82-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7 **Lab ID: 92373788010** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 19:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 19:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 19:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 19:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 19:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 19:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 19:46	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 19:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 19:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 19:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/20/18 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		02/20/18 19:46	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		02/20/18 19:46	2037-26-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7D **Lab ID: 92373788011** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:04	7440-38-2	
Barium	**114**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:04	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 10:04	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:04	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:04	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:04	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:04	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:45	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	208-96-8	
Aniline	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 12:45	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 12:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 12:45	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 12:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 12:45	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 12:45	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 12:45	51-28-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7D **Lab ID: 92373788011** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/22/18 09:25	02/22/18 12:45	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 12:45	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 12:45	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 12:45	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 12:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/22/18 09:25	02/22/18 12:45	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	85-01-8	
Phenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 12:45	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	67	%	40-121	1	02/22/18 09:25	02/22/18 12:45	4165-60-0	
2-Fluorobiphenyl (S)	72	%	45-139	1	02/22/18 09:25	02/22/18 12:45	321-60-8	
Terphenyl-d14 (S)	84	%	48-146	1	02/22/18 09:25	02/22/18 12:45	1718-51-0	
Phenol-d6 (S)	44	%	18-105	1	02/22/18 09:25	02/22/18 12:45	13127-88-3	
2-Fluorophenol (S)	49	%	13-118	1	02/22/18 09:25	02/22/18 12:45	367-12-4	
2,4,6-Tribromophenol (S)	89	%	31-170	1	02/22/18 09:25	02/22/18 12:45	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 20:02	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 20:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 20:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 20:02	74-97-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7D **Lab ID: 92373788011** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 20:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 20:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 20:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 20:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 20:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 20:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 20:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 20:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 20:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 20:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 20:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 20:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 20:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 20:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:02	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 20:02	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 20:02	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 20:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 20:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 20:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 20:02	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 20:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 20:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 20:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 20:02	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 20:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 20:02	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 20:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:02	120-82-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-7D **Lab ID: 92373788011** Collected: 02/16/18 13:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 20:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 20:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 20:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 20:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 20:02	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 20:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 20:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 20:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/20/18 20:02	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		02/20/18 20:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/20/18 20:02	2037-26-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-10 **Lab ID: 92373788012** Collected: 02/16/18 14:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:13	7440-38-2	
Barium	**257**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:13	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 10:13	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:13	7440-47-3	
Lead	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:13	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:13	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:13	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:47	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 23:22	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 23:22	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 23:22	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 23:22	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 23:22	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 23:22	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 23:22	51-28-5	

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2225 Riverside Dr.
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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-10 **Lab ID: 92373788012** Collected: 02/16/18 14:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/21/18 23:22	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 23:22	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 23:22	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/21/18 23:22	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/21/18 23:22	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/21/18 23:22	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/21/18 23:22	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	68	%	40-121	1	02/21/18 09:51	02/21/18 23:22	4165-60-0	
2-Fluorobiphenyl (S)	69	%	45-139	1	02/21/18 09:51	02/21/18 23:22	321-60-8	
Terphenyl-d14 (S)	72	%	48-146	1	02/21/18 09:51	02/21/18 23:22	1718-51-0	
Phenol-d6 (S)	37	%	18-105	1	02/21/18 09:51	02/21/18 23:22	13127-88-3	
2-Fluorophenol (S)	35	%	13-118	1	02/21/18 09:51	02/21/18 23:22	367-12-4	
2,4,6-Tribromophenol (S)	58	%	31-170	1	02/21/18 09:51	02/21/18 23:22	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 20:19	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 20:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 20:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 20:19	74-97-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-10 **Lab ID: 92373788012** Collected: 02/16/18 14:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 20:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 20:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 20:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 20:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 20:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 20:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 20:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 20:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 20:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 20:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 20:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 20:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 20:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 20:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 20:19	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 20:19	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 20:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 20:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 20:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 20:19	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 20:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 20:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 20:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 20:19	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 20:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 20:19	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 20:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:19	120-82-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-10 **Lab ID: 92373788012** Collected: 02/16/18 14:30 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 20:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 20:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 20:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 20:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 20:19	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 20:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 20:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 20:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/20/18 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		02/20/18 20:19	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		02/20/18 20:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-11 **Lab ID: 92373788013** Collected: 02/16/18 12:40 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	**10.1**	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:16	7440-38-2	
Barium	**1480**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:16	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 10:16	7440-43-9	
Chromium	**32.0**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:16	7440-47-3	
Lead	**16.7**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:16	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:16	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:16	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:50	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	83-32-9	
Acenaphthylene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	208-96-8	
Aniline	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	62-53-3	
Anthracene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	207-08-9	
Benzoic Acid	ND	ug/L	41.7	1	02/21/18 09:51	02/21/18 23:51	65-85-0	
Benzyl alcohol	ND	ug/L	16.7	1	02/21/18 09:51	02/21/18 23:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	16.7	1	02/21/18 09:51	02/21/18 23:51	59-50-7	
4-Chloroaniline	ND	ug/L	16.7	1	02/21/18 09:51	02/21/18 23:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	111-44-4	
2-Chloronaphthalene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	91-58-7	
2-Chlorophenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	7005-72-3	
Chrysene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	53-70-3	
Dibenzofuran	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	16.7	1	02/21/18 09:51	02/21/18 23:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	120-83-2	
Diethylphthalate	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	105-67-9	
Dimethylphthalate	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	16.7	1	02/21/18 09:51	02/21/18 23:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	41.7	1	02/21/18 09:51	02/21/18 23:51	51-28-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-11 **Lab ID: 92373788013** Collected: 02/16/18 12:40 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	02/21/18 09:51	02/21/18 23:51	117-81-7	
Fluoranthene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	206-44-0	
Fluorene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	87-68-3	
Hexachlorobenzene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	77-47-4	
Hexachloroethane	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	193-39-5	
Isophorone	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	78-59-1	
1-Methylnaphthalene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	90-12-0	
2-Methylnaphthalene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	15831-10-4	
Naphthalene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	91-20-3	
2-Nitroaniline	ND	ug/L	41.7	1	02/21/18 09:51	02/21/18 23:51	88-74-4	
3-Nitroaniline	ND	ug/L	41.7	1	02/21/18 09:51	02/21/18 23:51	99-09-2	
4-Nitroaniline	ND	ug/L	16.7	1	02/21/18 09:51	02/21/18 23:51	100-01-6	
Nitrobenzene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	98-95-3	
2-Nitrophenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	88-75-5	
4-Nitrophenol	ND	ug/L	41.7	1	02/21/18 09:51	02/21/18 23:51	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	108-60-1	
Pentachlorophenol	ND	ug/L	20.8	1	02/21/18 09:51	02/21/18 23:51	87-86-5	
Phenanthrene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	85-01-8	
Phenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	108-95-2	
Pyrene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	8.3	1	02/21/18 09:51	02/21/18 23:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	73	%	40-121	1	02/21/18 09:51	02/21/18 23:51	4165-60-0	
2-Fluorobiphenyl (S)	65	%	45-139	1	02/21/18 09:51	02/21/18 23:51	321-60-8	
Terphenyl-d14 (S)	74	%	48-146	1	02/21/18 09:51	02/21/18 23:51	1718-51-0	
Phenol-d6 (S)	40	%	18-105	1	02/21/18 09:51	02/21/18 23:51	13127-88-3	
2-Fluorophenol (S)	43	%	13-118	1	02/21/18 09:51	02/21/18 23:51	367-12-4	
2,4,6-Tribromophenol (S)	71	%	31-170	1	02/21/18 09:51	02/21/18 23:51	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 20:35	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 20:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 20:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 20:35	74-97-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-11 **Lab ID: 92373788013** Collected: 02/16/18 12:40 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 20:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 20:35	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 20:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 20:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 20:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 20:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 20:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 20:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 20:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 20:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 20:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 20:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 20:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 20:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 20:35	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 20:35	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 20:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 20:35	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 20:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 20:35	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 20:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 20:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 20:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 20:35	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 20:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 20:35	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 20:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:35	120-82-1	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-11 **Lab ID: 92373788013** Collected: 02/16/18 12:40 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 20:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 20:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 20:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 20:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 20:35	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 20:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 20:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 20:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/20/18 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		02/20/18 20:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		02/20/18 20:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-12 **Lab ID: 92373788014** Collected: 02/16/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:19	7440-38-2	
Barium	**755**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:19	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/20/18 19:10	02/23/18 10:19	7440-43-9	
Chromium	**12.5**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:19	7440-47-3	
Lead	**14.0**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:19	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:19	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:19	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:52	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:21	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:21	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:21	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:21	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:21	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:21	51-28-5	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-12 **Lab ID: 92373788014** Collected: 02/16/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/22/18 00:21	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:21	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:21	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:21	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:21	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/22/18 00:21	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%	40-121	1	02/21/18 09:51	02/22/18 00:21	4165-60-0	
2-Fluorobiphenyl (S)	66	%	45-139	1	02/21/18 09:51	02/22/18 00:21	321-60-8	
Terphenyl-d14 (S)	73	%	48-146	1	02/21/18 09:51	02/22/18 00:21	1718-51-0	
Phenol-d6 (S)	20	%	18-105	1	02/21/18 09:51	02/22/18 00:21	13127-88-3	
2-Fluorophenol (S)	12	%	13-118	1	02/21/18 09:51	02/22/18 00:21	367-12-4	S0
2,4,6-Tribromophenol (S)	32	%	31-170	1	02/21/18 09:51	02/22/18 00:21	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 20:51	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 20:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 20:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 20:51	74-97-5	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-12 **Lab ID: 92373788014** Collected: 02/16/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 20:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 20:51	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 20:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 20:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 20:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 20:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 20:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 20:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 20:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 20:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 20:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 20:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 20:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 20:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 20:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 20:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 20:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 20:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 20:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 20:51	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 20:51	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 20:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 20:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 20:51	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 20:51	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 20:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 20:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 20:51	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 20:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 20:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 20:51	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 20:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 20:51	120-82-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-12 **Lab ID: 92373788014** Collected: 02/16/18 13:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 20:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 20:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 20:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 20:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 20:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 20:51	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 20:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 20:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 20:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		02/20/18 20:51	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/20/18 20:51	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		02/20/18 20:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-8 **Lab ID: 92373788015** Collected: 02/16/18 14:20 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	**16.8**	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:22	7440-38-2	
Barium	**897**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:22	7440-39-3	
Cadmium	**1.2**	ug/L	1.0	1	02/20/18 19:10	02/23/18 10:22	7440-43-9	
Chromium	**127**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:22	7440-47-3	
Lead	**188**	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:22	7439-92-1	
Selenium	**14.6**	ug/L	10.0	1	02/20/18 19:10	02/23/18 10:22	7782-49-2	
Silver	ND	ug/L	5.0	1	02/20/18 19:10	02/23/18 10:22	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.48**	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:54	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:50	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:50	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:50	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:50	51-28-5	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-8 **Lab ID: 92373788015** Collected: 02/16/18 14:20 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/22/18 00:50	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:50	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:50	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 00:50	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 00:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/22/18 00:50	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 00:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	29	%	40-121	1	02/21/18 09:51	02/22/18 00:50	4165-60-0	S5
2-Fluorobiphenyl (S)	60	%	45-139	1	02/21/18 09:51	02/22/18 00:50	321-60-8	
Terphenyl-d14 (S)	64	%	48-146	1	02/21/18 09:51	02/22/18 00:50	1718-51-0	
Phenol-d6 (S)	20	%	18-105	1	02/21/18 09:51	02/22/18 00:50	13127-88-3	
2-Fluorophenol (S)	10	%	13-118	1	02/21/18 09:51	02/22/18 00:50	367-12-4	S5
2,4,6-Tribromophenol (S)	3	%	31-170	1	02/21/18 09:51	02/22/18 00:50	118-79-6	S5
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 21:07	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 21:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 21:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 21:07	74-97-5	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-8 **Lab ID: 92373788015** Collected: 02/16/18 14:20 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 21:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 21:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 21:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 21:07	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 21:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 21:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 21:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 21:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 21:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 21:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 21:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 21:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 21:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 21:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 21:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 21:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 21:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 21:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 21:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 21:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 21:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 21:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 21:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 21:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 21:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 21:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 21:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 21:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 21:07	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 21:07	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 21:07	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 21:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 21:07	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 21:07	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 21:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 21:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 21:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 21:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 21:07	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 21:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 21:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 21:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 21:07	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 21:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 21:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 21:07	120-82-1	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-8 **Lab ID: 92373788015** Collected: 02/16/18 14:20 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 21:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 21:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 21:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 21:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 21:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 21:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 21:07	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 21:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 21:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 21:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/20/18 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		02/20/18 21:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/20/18 21:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-7 **Lab ID: 92373788016** Collected: 02/16/18 14:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 17:36	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 17:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 17:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 17:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 17:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 17:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 17:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 17:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 17:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 17:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 17:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 17:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 17:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 17:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 17:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 17:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 17:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 17:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 17:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 17:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 17:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 17:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 17:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 17:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 17:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 17:36	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 17:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 17:36	127-18-4	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-7 **Lab ID: 92373788016** Collected: 02/16/18 14:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		02/20/18 17:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 17:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 17:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 17:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 17:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 17:36	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 17:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 17:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 17:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		02/20/18 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/20/18 17:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		02/20/18 17:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-8 **Lab ID: 92373788017** Collected: 02/16/18 14:15 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/20/18 17:52	67-64-1	
Benzene	ND	ug/L	1.0	1		02/20/18 17:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/20/18 17:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/20/18 17:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/20/18 17:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/20/18 17:52	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/20/18 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/20/18 17:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/18 17:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/20/18 17:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/18 17:52	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/18 17:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/18 17:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/20/18 17:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/20/18 17:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/20/18 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/20/18 17:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/20/18 17:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/20/18 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/18 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/18 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/20/18 17:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/18 17:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/20/18 17:52	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/20/18 17:52	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/20/18 17:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/20/18 17:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/20/18 17:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/20/18 17:52	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/20/18 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/20/18 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/20/18 17:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/20/18 17:52	91-20-3	
Styrene	ND	ug/L	1.0	1		02/20/18 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/18 17:52	79-34-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: T-8 **Lab ID: 92373788017** Collected: 02/16/18 14:15 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		02/20/18 17:52	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/18 17:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/20/18 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/18 17:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/18 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/20/18 17:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/20/18 17:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/20/18 17:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/20/18 17:52	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/20/18 17:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/20/18 17:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/20/18 17:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		02/20/18 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/20/18 17:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		02/20/18 17:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3D **Lab ID: 92373788018** Collected: 02/15/18 09:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/21/18 05:10	02/23/18 20:02	7440-38-2	
Barium	**210**	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:02	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/21/18 05:10	02/23/18 20:02	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:02	7440-47-3	
Lead	ND	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:02	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/21/18 05:10	02/23/18 20:02	7782-49-2	
Silver	ND	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:02	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:57	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	208-96-8	
Aniline	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 10:47	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 10:47	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 10:47	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 10:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 10:47	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 10:47	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 10:47	51-28-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3D **Lab ID: 92373788018** Collected: 02/15/18 09:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/21/18 09:51	02/22/18 10:47	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 10:47	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 10:47	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/21/18 09:51	02/22/18 10:47	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/21/18 09:51	02/22/18 10:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/21/18 09:51	02/22/18 10:47	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	85-01-8	
Phenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/21/18 09:51	02/22/18 10:47	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	65	%	40-121	1	02/21/18 09:51	02/22/18 10:47	4165-60-0	
2-Fluorobiphenyl (S)	69	%	45-139	1	02/21/18 09:51	02/22/18 10:47	321-60-8	
Terphenyl-d14 (S)	70	%	48-146	1	02/21/18 09:51	02/22/18 10:47	1718-51-0	
Phenol-d6 (S)	31	%	18-105	1	02/21/18 09:51	02/22/18 10:47	13127-88-3	
2-Fluorophenol (S)	32	%	13-118	1	02/21/18 09:51	02/22/18 10:47	367-12-4	
2,4,6-Tribromophenol (S)	50	%	31-170	1	02/21/18 09:51	02/22/18 10:47	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/21/18 14:50	67-64-1	
Benzene	ND	ug/L	1.0	1		02/21/18 14:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/21/18 14:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/21/18 14:50	74-97-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3D **Lab ID: 92373788018** Collected: 02/15/18 09:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/21/18 14:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/21/18 14:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/21/18 14:50	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		02/21/18 14:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/18 14:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/18 14:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/18 14:50	75-00-3	M1
Chloroform	ND	ug/L	1.0	1		02/21/18 14:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/18 14:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/21/18 14:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/21/18 14:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/21/18 14:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/21/18 14:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/21/18 14:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/21/18 14:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/18 14:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/21/18 14:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/18 14:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/21/18 14:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/18 14:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/18 14:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/21/18 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/18 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/18 14:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/18 14:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/21/18 14:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/21/18 14:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/21/18 14:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/18 14:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/18 14:50	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/21/18 14:50	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/21/18 14:50	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/21/18 14:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/21/18 14:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/21/18 14:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/21/18 14:50	99-87-6	M1
Methylene Chloride	ND	ug/L	2.0	1		02/21/18 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/21/18 14:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/21/18 14:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/21/18 14:50	91-20-3	
Styrene	ND	ug/L	1.0	1		02/21/18 14:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/18 14:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/18 14:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/18 14:50	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/18 14:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/21/18 14:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/21/18 14:50	120-82-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-3D **Lab ID: 92373788018** Collected: 02/15/18 09:00 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/18 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/18 14:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/18 14:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/21/18 14:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/21/18 14:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/21/18 14:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/21/18 14:50	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/21/18 14:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/21/18 14:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/21/18 14:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/21/18 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		02/21/18 14:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/21/18 14:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-4 **Lab ID: 92373788019** Collected: 02/15/18 11:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	02/21/18 05:10	02/23/18 20:05	7440-38-2	
Barium	**241**	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:05	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/21/18 05:10	02/23/18 20:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:05	7440-47-3	
Lead	ND	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:05	7439-92-1	
Selenium	ND	ug/L	10.0	1	02/21/18 05:10	02/23/18 20:05	7782-49-2	
Silver	ND	ug/L	5.0	1	02/21/18 05:10	02/23/18 20:05	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/18 11:45	02/23/18 13:59	7439-97-6	
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	208-96-8	
Aniline	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	62-53-3	
Anthracene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	207-08-9	
Benzoic Acid	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 13:14	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 13:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 13:14	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 13:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	7005-72-3	
Chrysene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 13:14	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 13:14	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 13:14	51-28-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-4 **Lab ID: 92373788019** Collected: 02/15/18 11:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV RVE Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrotoluene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	1	02/22/18 09:25	02/22/18 13:14	117-81-7	
Fluoranthene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	206-44-0	
Fluorene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	193-39-5	
Isophorone	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	15831-10-4	
Naphthalene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 13:14	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 13:14	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	1	02/22/18 09:25	02/22/18 13:14	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	1	02/22/18 09:25	02/22/18 13:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	108-60-1	
Pentachlorophenol	ND	ug/L	25.0	1	02/22/18 09:25	02/22/18 13:14	87-86-5	
Phenanthrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	85-01-8	
Phenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	108-95-2	
Pyrene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	02/22/18 09:25	02/22/18 13:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	52	%	40-121	1	02/22/18 09:25	02/22/18 13:14	4165-60-0	
2-Fluorobiphenyl (S)	55	%	45-139	1	02/22/18 09:25	02/22/18 13:14	321-60-8	
Terphenyl-d14 (S)	81	%	48-146	1	02/22/18 09:25	02/22/18 13:14	1718-51-0	
Phenol-d6 (S)	44	%	18-105	1	02/22/18 09:25	02/22/18 13:14	13127-88-3	
2-Fluorophenol (S)	42	%	13-118	1	02/22/18 09:25	02/22/18 13:14	367-12-4	
2,4,6-Tribromophenol (S)	90	%	31-170	1	02/22/18 09:25	02/22/18 13:14	118-79-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/21/18 15:06	67-64-1	
Benzene	ND	ug/L	1.0	1		02/21/18 15:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/21/18 15:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/21/18 15:06	74-97-5	

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(828)254-7176

ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-4 **Lab ID: 92373788019** Collected: 02/15/18 11:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Bromodichloromethane	ND	ug/L	1.0	1		02/21/18 15:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/21/18 15:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/21/18 15:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		02/21/18 15:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/18 15:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/18 15:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/18 15:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/18 15:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/18 15:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/21/18 15:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/21/18 15:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		02/21/18 15:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		02/21/18 15:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/21/18 15:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		02/21/18 15:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/18 15:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/21/18 15:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/18 15:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/21/18 15:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/18 15:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/18 15:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/21/18 15:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/18 15:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/18 15:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/18 15:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/21/18 15:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/21/18 15:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/21/18 15:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/18 15:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/18 15:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		02/21/18 15:06	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		02/21/18 15:06	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		02/21/18 15:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/21/18 15:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		02/21/18 15:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/21/18 15:06	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		02/21/18 15:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		02/21/18 15:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/21/18 15:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		02/21/18 15:06	91-20-3	
Styrene	ND	ug/L	1.0	1		02/21/18 15:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/18 15:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/18 15:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/18 15:06	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/18 15:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/21/18 15:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/21/18 15:06	120-82-1	

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ANALYTICAL RESULTS

Project: Drexel
Pace Project No.: 92373788

Sample: MW-4 **Lab ID: 92373788019** Collected: 02/15/18 11:45 Received: 02/16/18 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/18 15:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/18 15:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/18 15:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/21/18 15:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/21/18 15:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		02/21/18 15:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		02/21/18 15:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		02/21/18 15:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		02/21/18 15:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/21/18 15:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		02/21/18 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		02/21/18 15:06	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		02/21/18 15:06	2037-26-5	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 399279 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015, 92373788018, 92373788019

METHOD BLANK: 2214440 Matrix: Water
Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015, 92373788018, 92373788019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/23/18 13:12	

LABORATORY CONTROL SAMPLE: 2214444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214445 2214446

Parameter	Units	92373788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.5	98	102	75-125	4	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 398907 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015

METHOD BLANK: 2212661 Matrix: Water
Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	02/22/18 04:39	
Barium	ug/L	ND	5.0	02/22/18 04:39	
Cadmium	ug/L	ND	1.0	02/22/18 04:39	
Chromium	ug/L	ND	5.0	02/22/18 04:39	
Lead	ug/L	ND	5.0	02/22/18 11:10	
Selenium	ug/L	ND	10.0	02/22/18 04:39	
Silver	ug/L	ND	5.0	02/22/18 11:10	

LABORATORY CONTROL SAMPLE: 2212662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	991	99	80-120	
Barium	ug/L	1000	965	97	80-120	
Cadmium	ug/L	1000	971	97	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Lead	ug/L	1000	945	95	80-120	
Selenium	ug/L	1000	1040	104	80-120	
Silver	ug/L	500	486	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212663 2212664

Parameter	Units	92373418001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	ND	500	500	528	519	105	104	75-125	2	
Barium	ug/L	ND	500	500	510	500	101	99	75-125	2	
Cadmium	ug/L	1.4	500	500	525	514	105	103	75-125	2	
Chromium	ug/L	13.9	500	500	551	536	107	104	75-125	3	
Lead	ug/L				561	547				3	
Selenium	ug/L	ND	500	500	582	572	116	114	75-125	2	
Silver	ug/L				265	260				2	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 398977 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92373788018, 92373788019

METHOD BLANK: 2212939 Matrix: Water
Associated Lab Samples: 92373788018, 92373788019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	02/23/18 19:16	
Barium	ug/L	ND	5.0	02/24/18 18:12	
Cadmium	ug/L	ND	1.0	02/23/18 19:16	
Chromium	ug/L	ND	5.0	02/23/18 19:16	
Lead	ug/L	ND	5.0	02/23/18 19:16	
Selenium	ug/L	ND	10.0	02/23/18 19:16	
Silver	ug/L	ND	5.0	02/23/18 19:16	

LABORATORY CONTROL SAMPLE: 2212940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	505	101	80-120	
Barium	ug/L	500	522	104	80-120	
Cadmium	ug/L	500	523	105	80-120	
Chromium	ug/L	500	516	103	80-120	
Lead	ug/L	500	514	103	80-120	
Selenium	ug/L	500	509	102	80-120	
Silver	ug/L	250	265	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212941 2212942

Parameter	Units	92373443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	23.1	500	500	542	531	104	102	75-125	2	
Barium	ug/L	16.4	500	500	534	537	104	104	75-125	1	
Cadmium	ug/L	ND	500	500	534	531	107	106	75-125	1	
Chromium	ug/L	ND	500	500	524	520	105	104	75-125	1	
Lead	ug/L	ND	500	500	515	511	103	102	75-125	1	
Selenium	ug/L	ND	500	500	541	538	107	106	75-125	1	
Silver	ug/L	ND	250	250	268	269	107	107	75-125	0	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 398725
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92373788007

METHOD BLANK: 2211646
Matrix: Water
Associated Lab Samples: 92373788007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/19/18 17:33	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/19/18 17:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/19/18 17:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/19/18 17:33	
1,1-Dichloroethane	ug/L	ND	1.0	02/19/18 17:33	
1,1-Dichloroethene	ug/L	ND	1.0	02/19/18 17:33	
1,1-Dichloropropene	ug/L	ND	1.0	02/19/18 17:33	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/19/18 17:33	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/19/18 17:33	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/19/18 17:33	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/19/18 17:33	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/19/18 17:33	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/19/18 17:33	
1,2-Dichloroethane	ug/L	ND	1.0	02/19/18 17:33	
1,2-Dichloropropane	ug/L	ND	1.0	02/19/18 17:33	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/19/18 17:33	
1,3-Dichloropropane	ug/L	ND	1.0	02/19/18 17:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/19/18 17:33	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	02/19/18 17:33	
2,2-Dichloropropane	ug/L	ND	1.0	02/19/18 17:33	
2-Butanone (MEK)	ug/L	ND	5.0	02/19/18 17:33	
2-Chlorotoluene	ug/L	ND	1.0	02/19/18 17:33	
2-Hexanone	ug/L	ND	5.0	02/19/18 17:33	
4-Chlorotoluene	ug/L	ND	1.0	02/19/18 17:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/19/18 17:33	
Acetone	ug/L	ND	25.0	02/19/18 17:33	
Benzene	ug/L	ND	1.0	02/19/18 17:33	
Bromobenzene	ug/L	ND	1.0	02/19/18 17:33	
Bromochloromethane	ug/L	ND	1.0	02/19/18 17:33	
Bromodichloromethane	ug/L	ND	1.0	02/19/18 17:33	
Bromoform	ug/L	ND	1.0	02/19/18 17:33	
Bromomethane	ug/L	ND	2.0	02/19/18 17:33	
Carbon tetrachloride	ug/L	ND	1.0	02/19/18 17:33	
Chlorobenzene	ug/L	ND	1.0	02/19/18 17:33	
Chloroethane	ug/L	ND	1.0	02/19/18 17:33	
Chloroform	ug/L	ND	1.0	02/19/18 17:33	
Chloromethane	ug/L	ND	1.0	02/19/18 17:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/19/18 17:33	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/19/18 17:33	
Dibromochloromethane	ug/L	ND	1.0	02/19/18 17:33	
Dibromomethane	ug/L	ND	1.0	02/19/18 17:33	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

METHOD BLANK: 2211646 Matrix: Water
Associated Lab Samples: 92373788007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	02/19/18 17:33	
Diisopropyl ether	ug/L	ND	1.0	02/19/18 17:33	
Ethylbenzene	ug/L	ND	1.0	02/19/18 17:33	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/19/18 17:33	
m&p-Xylene	ug/L	ND	2.0	02/19/18 17:33	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/19/18 17:33	
Methylene Chloride	ug/L	ND	2.0	02/19/18 17:33	
Naphthalene	ug/L	ND	1.0	02/19/18 17:33	
o-Xylene	ug/L	ND	1.0	02/19/18 17:33	
p-Isopropyltoluene	ug/L	ND	1.0	02/19/18 17:33	
Styrene	ug/L	ND	1.0	02/19/18 17:33	
Tetrachloroethene	ug/L	ND	1.0	02/19/18 17:33	
Toluene	ug/L	ND	1.0	02/19/18 17:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/19/18 17:33	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/19/18 17:33	
Trichloroethene	ug/L	ND	1.0	02/19/18 17:33	
Trichlorofluoromethane	ug/L	ND	1.0	02/19/18 17:33	
Vinyl acetate	ug/L	ND	2.0	02/19/18 17:33	
Vinyl chloride	ug/L	ND	1.0	02/19/18 17:33	
Xylene (Total)	ug/L	ND	1.0	02/19/18 17:33	
1,2-Dichloroethane-d4 (S)	%	91	70-130	02/19/18 17:33	
4-Bromofluorobenzene (S)	%	99	70-130	02/19/18 17:33	
Toluene-d8 (S)	%	100	70-130	02/19/18 17:33	

LABORATORY CONTROL SAMPLE: 2211647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.3	87	80-125	
1,1,1-Trichloroethane	ug/L	50	47.0	94	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.0	96	79-124	
1,1,2-Trichloroethane	ug/L	50	49.7	99	85-125	
1,1-Dichloroethane	ug/L	50	43.7	87	73-126	
1,1-Dichloroethene	ug/L	50	45.8	92	66-135	
1,1-Dichloropropene	ug/L	50	49.5	99	74-135	
1,2,3-Trichlorobenzene	ug/L	50	49.2	98	73-135	
1,2,3-Trichloropropane	ug/L	50	47.4	95	75-130	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	47.5	95	83-124	
1,2-Dichlorobenzene	ug/L	50	48.8	98	80-133	
1,2-Dichloroethane	ug/L	50	42.5	85	67-128	
1,2-Dichloropropane	ug/L	50	44.8	90	75-132	
1,3-Dichlorobenzene	ug/L	50	47.3	95	77-130	
1,3-Dichloropropane	ug/L	50	49.3	99	76-131	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2211647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	46.7	93	78-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1340	134	71-125	L1
2,2-Dichloropropane	ug/L	50	45.8	92	40-160	
2-Butanone (MEK)	ug/L	100	89.0	89	61-144	
2-Chlorotoluene	ug/L	50	49.4	99	74-132	
2-Hexanone	ug/L	100	88.6	89	68-143	
4-Chlorotoluene	ug/L	50	49.4	99	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	83.8	84	72-135	
Acetone	ug/L	100	95.5	96	48-146	
Benzene	ug/L	50	48.4	97	80-125	
Bromobenzene	ug/L	50	49.4	99	75-125	
Bromochloromethane	ug/L	50	51.3	103	71-125	
Bromodichloromethane	ug/L	50	45.3	91	78-124	
Bromoform	ug/L	50	41.2	82	71-128	
Bromomethane	ug/L	50	50.9	102	40-160	
Carbon tetrachloride	ug/L	50	44.6	89	69-131	
Chlorobenzene	ug/L	50	46.2	92	81-122	
Chloroethane	ug/L	50	45.9	92	39-148	
Chloroform	ug/L	50	46.6	93	73-127	
Chloromethane	ug/L	50	38.7	77	44-146	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	74-124	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	72-132	
Dibromochloromethane	ug/L	50	45.1	90	78-125	
Dibromomethane	ug/L	50	43.4	87	82-120	
Dichlorodifluoromethane	ug/L	50	48.0	96	34-157	
Diisopropyl ether	ug/L	50	43.9	88	69-135	
Ethylbenzene	ug/L	50	46.6	93	79-121	
Hexachloro-1,3-butadiene	ug/L	50	46.8	94	72-131	
m&p-Xylene	ug/L	100	94.8	95	81-124	
Methyl-tert-butyl ether	ug/L	50	48.7	97	74-131	
Methylene Chloride	ug/L	50	42.2	84	64-133	
Naphthalene	ug/L	50	54.7	109	73-133	
o-Xylene	ug/L	50	48.1	96	79-131	
p-Isopropyltoluene	ug/L	50	50.4	101	80-131	
Styrene	ug/L	50	46.1	92	84-126	
Tetrachloroethene	ug/L	50	40.9	82	78-122	
Toluene	ug/L	50	46.4	93	80-121	
trans-1,2-Dichloroethene	ug/L	50	46.2	92	71-127	
trans-1,3-Dichloropropene	ug/L	50	46.0	92	69-141	
Trichloroethene	ug/L	50	43.6	87	78-122	
Trichlorofluoromethane	ug/L	50	45.9	92	53-137	
Vinyl acetate	ug/L	100	89.3	89	40-160	
Vinyl chloride	ug/L	50	49.1	98	50-150	
Xylene (Total)	ug/L	150	143	95	81-126	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211648 2211649

Parameter	Units	92373773010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	144	149	72	75	70-130	3	
1,1,1-Trichloroethane	ug/L	ND	200	200	161	169	80	84	70-130	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	153	169	77	85	70-130	10	
1,1,2-Trichloroethane	ug/L	ND	200	200	162	181	81	91	70-130	12	
1,1-Dichloroethane	ug/L	ND	200	200	148	164	74	82	70-130	10	
1,1-Dichloroethene	ug/L	ND	200	200	159	172	79	86	70-166	8	
1,1-Dichloropropene	ug/L	ND	200	200	172	175	86	88	70-130	2	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	154	161	77	80	70-130	4	
1,2,3-Trichloropropane	ug/L	ND	200	200	168	180	84	90	70-130	7	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	156	159	78	79	70-130	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	146	164	73	82	70-130	12	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	155	167	78	84	70-130	7	
1,2-Dichlorobenzene	ug/L	ND	200	200	163	169	79	82	70-130	4	
1,2-Dichloroethane	ug/L	ND	200	200	141	154	71	77	70-130	9	
1,2-Dichloropropane	ug/L	ND	200	200	150	169	75	84	70-130	12	
1,3-Dichlorobenzene	ug/L	ND	200	200	166	167	79	80	70-130	0	
1,3-Dichloropropane	ug/L	ND	200	200	163	177	82	89	70-130	8	
1,4-Dichlorobenzene	ug/L	14.3	200	200	170	173	78	79	70-130	2	
1,4-Dioxane (p-Dioxane)	ug/L	ND	4000	4000	4380	4460	109	112	70-130	2	
2,2-Dichloropropane	ug/L	ND	200	200	142	154	71	77	70-130	8	
2-Butanone (MEK)	ug/L	ND	400	400	276	310	69	77	70-130	12	M1
2-Chlorotoluene	ug/L	ND	200	200	168	167	84	84	70-130	1	
2-Hexanone	ug/L	ND	400	400	268	301	67	75	70-130	11	M1
4-Chlorotoluene	ug/L	ND	200	200	164	164	82	82	70-130	0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	400	400	264	298	66	74	70-130	12	M1
Acetone	ug/L	ND	400	400	289	318	72	80	70-130	10	
Benzene	ug/L	ND	200	200	175	188	84	90	70-148	7	
Bromobenzene	ug/L	ND	200	200	165	174	83	87	70-130	5	
Bromochloromethane	ug/L	ND	200	200	165	185	83	93	70-130	11	
Bromodichloromethane	ug/L	ND	200	200	149	169	75	84	70-130	12	
Bromoform	ug/L	ND	200	200	129	145	64	72	70-130	12	M1
Bromomethane	ug/L	ND	200	200	144	158	72	79	70-130	9	
Carbon tetrachloride	ug/L	ND	200	200	163	161	82	81	70-130	1	
Chlorobenzene	ug/L	1350	200	200	1500	1380	77	19	70-146	8	M1
Chloroethane	ug/L	ND	200	200	172	194	86	97	70-130	12	
Chloroform	ug/L	ND	200	200	154	174	75	86	70-130	12	
Chloromethane	ug/L	ND	200	200	130	142	65	71	70-130	9	M1
cis-1,2-Dichloroethene	ug/L	ND	200	200	152	170	75	85	70-130	12	
cis-1,3-Dichloropropene	ug/L	ND	200	200	156	168	78	84	70-130	7	
Dibromochloromethane	ug/L	ND	200	200	145	162	72	81	70-130	11	
Dibromomethane	ug/L	ND	200	200	145	166	73	83	70-130	13	
Dichlorodifluoromethane	ug/L	ND	200	200	170	170	85	85	70-130	0	
Diisopropyl ether	ug/L	ND	200	200	139	158	69	79	70-130	13	M1
Ethylbenzene	ug/L	ND	200	200	160	158	80	79	70-130	2	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	156	150	78	75	70-130	4	
m&p-Xylene	ug/L	ND	400	400	328	322	82	80	70-130	2	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211648 2211649

Parameter	Units	92373773010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methyl-tert-butyl ether	ug/L	ND	200	200	156	186	78	93	70-130	18	
Methylene Chloride	ug/L	ND	200	200	149	165	75	82	70-130	10	
Naphthalene	ug/L	ND	200	200	169	183	84	92	70-130	8	
o-Xylene	ug/L	ND	200	200	163	165	81	83	70-130	2	
p-Isopropyltoluene	ug/L	ND	200	200	176	166	88	83	70-130	6	
Styrene	ug/L	ND	200	200	155	156	77	78	70-130	1	
Tetrachloroethene	ug/L	ND	200	200	145	140	71	69	70-130	3	M1
Toluene	ug/L	ND	200	200	163	172	80	84	70-155	5	
trans-1,2-Dichloroethene	ug/L	ND	200	200	158	174	79	87	70-130	9	
trans-1,3-Dichloropropene	ug/L	ND	200	200	150	165	75	83	70-130	10	
Trichloroethene	ug/L	ND	200	200	158	168	79	84	69-151	6	
Trichlorofluoromethane	ug/L	ND	200	200	162	170	81	85	70-130	5	
Vinyl acetate	ug/L	ND	400	400	280	316	70	79	70-130	12	
Vinyl chloride	ug/L	ND	200	200	171	184	86	92	70-130	7	
Xylene (Total)	ug/L	ND	600	600	491	487	82	81	70-130	1	
1,2-Dichloroethane-d4 (S)	%						88	91	70-130		
4-Bromofluorobenzene (S)	%						101	99	70-130		
Toluene-d8 (S)	%						99	101	70-130		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 398921 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788004, 92373788005, 92373788006, 92373788008, 92373788009, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015, 92373788016, 92373788017

METHOD BLANK: 2212776 Matrix: Water
Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788004, 92373788005, 92373788006, 92373788008, 92373788009, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015, 92373788016, 92373788017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/20/18 16:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/20/18 16:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/20/18 16:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/20/18 16:31	
1,1-Dichloroethane	ug/L	ND	1.0	02/20/18 16:31	
1,1-Dichloroethene	ug/L	ND	1.0	02/20/18 16:31	
1,1-Dichloropropene	ug/L	ND	1.0	02/20/18 16:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/20/18 16:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/20/18 16:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/20/18 16:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/20/18 16:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/20/18 16:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/20/18 16:31	
1,2-Dichloroethane	ug/L	ND	1.0	02/20/18 16:31	
1,2-Dichloropropane	ug/L	ND	1.0	02/20/18 16:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/20/18 16:31	
1,3-Dichloropropane	ug/L	ND	1.0	02/20/18 16:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/20/18 16:31	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	02/20/18 16:31	
2,2-Dichloropropane	ug/L	ND	1.0	02/20/18 16:31	
2-Butanone (MEK)	ug/L	ND	5.0	02/20/18 16:31	
2-Chlorotoluene	ug/L	ND	1.0	02/20/18 16:31	
2-Hexanone	ug/L	ND	5.0	02/20/18 16:31	
4-Chlorotoluene	ug/L	ND	1.0	02/20/18 16:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/20/18 16:31	
Acetone	ug/L	ND	25.0	02/20/18 16:31	
Benzene	ug/L	ND	1.0	02/20/18 16:31	
Bromobenzene	ug/L	ND	1.0	02/20/18 16:31	
Bromochloromethane	ug/L	ND	1.0	02/20/18 16:31	
Bromodichloromethane	ug/L	ND	1.0	02/20/18 16:31	
Bromoform	ug/L	ND	1.0	02/20/18 16:31	
Bromomethane	ug/L	ND	2.0	02/20/18 16:31	
Carbon tetrachloride	ug/L	ND	1.0	02/20/18 16:31	
Chlorobenzene	ug/L	ND	1.0	02/20/18 16:31	
Chloroethane	ug/L	ND	1.0	02/20/18 16:31	
Chloroform	ug/L	ND	1.0	02/20/18 16:31	
Chloromethane	ug/L	ND	1.0	02/20/18 16:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/20/18 16:31	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

METHOD BLANK: 2212776 Matrix: Water

Associated Lab Samples: 92373788001, 92373788002, 92373788003, 92373788004, 92373788005, 92373788006, 92373788008, 92373788009, 92373788010, 92373788011, 92373788012, 92373788013, 92373788014, 92373788015, 92373788016, 92373788017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/20/18 16:31	
Dibromochloromethane	ug/L	ND	1.0	02/20/18 16:31	
Dibromomethane	ug/L	ND	1.0	02/20/18 16:31	
Dichlorodifluoromethane	ug/L	ND	1.0	02/20/18 16:31	
Diisopropyl ether	ug/L	ND	1.0	02/20/18 16:31	
Ethylbenzene	ug/L	ND	1.0	02/20/18 16:31	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/20/18 16:31	
m&p-Xylene	ug/L	ND	2.0	02/20/18 16:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/20/18 16:31	
Methylene Chloride	ug/L	ND	2.0	02/20/18 16:31	
Naphthalene	ug/L	ND	1.0	02/20/18 16:31	
o-Xylene	ug/L	ND	1.0	02/20/18 16:31	
p-Isopropyltoluene	ug/L	ND	1.0	02/20/18 16:31	
Styrene	ug/L	ND	1.0	02/20/18 16:31	
Tetrachloroethene	ug/L	ND	1.0	02/20/18 16:31	
Toluene	ug/L	ND	1.0	02/20/18 16:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/20/18 16:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/20/18 16:31	
Trichloroethene	ug/L	ND	1.0	02/20/18 16:31	
Trichlorofluoromethane	ug/L	ND	1.0	02/20/18 16:31	
Vinyl acetate	ug/L	ND	2.0	02/20/18 16:31	
Vinyl chloride	ug/L	ND	1.0	02/20/18 16:31	
Xylene (Total)	ug/L	ND	1.0	02/20/18 16:31	
1,2-Dichloroethane-d4 (S)	%	95	70-130	02/20/18 16:31	
4-Bromofluorobenzene (S)	%	96	70-130	02/20/18 16:31	
Toluene-d8 (S)	%	100	70-130	02/20/18 16:31	

LABORATORY CONTROL SAMPLE: 2212777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.2	92	80-125	
1,1,1-Trichloroethane	ug/L	50	51.4	103	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	79-124	
1,1,2-Trichloroethane	ug/L	50	51.9	104	85-125	
1,1-Dichloroethane	ug/L	50	45.8	92	73-126	
1,1-Dichloroethene	ug/L	50	49.3	99	66-135	
1,1-Dichloropropene	ug/L	50	47.1	94	74-135	
1,2,3-Trichlorobenzene	ug/L	50	49.9	100	73-135	
1,2,3-Trichloropropane	ug/L	50	51.5	103	75-130	
1,2,4-Trichlorobenzene	ug/L	50	50.5	101	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	56.8	114	83-124	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2212777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	49.8	100	80-133	
1,2-Dichloroethane	ug/L	50	48.6	97	67-128	
1,2-Dichloropropane	ug/L	50	50.6	101	75-132	
1,3-Dichlorobenzene	ug/L	50	50.2	100	77-130	
1,3-Dichloropropane	ug/L	50	54.8	110	76-131	
1,4-Dichlorobenzene	ug/L	50	50.1	100	78-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1080	108	71-125	
2,2-Dichloropropane	ug/L	50	52.6	105	40-160	
2-Butanone (MEK)	ug/L	100	95.9	96	61-144	
2-Chlorotoluene	ug/L	50	48.9	98	74-132	
2-Hexanone	ug/L	100	94.9	95	68-143	
4-Chlorotoluene	ug/L	50	50.2	100	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	72-135	
Acetone	ug/L	100	101	101	48-146	
Benzene	ug/L	50	49.3	99	80-125	
Bromobenzene	ug/L	50	51.2	102	75-125	
Bromochloromethane	ug/L	50	47.1	94	71-125	
Bromodichloromethane	ug/L	50	52.7	105	78-124	
Bromoform	ug/L	50	46.1	92	71-128	
Bromomethane	ug/L	50	39.9	80	40-160	
Carbon tetrachloride	ug/L	50	47.4	95	69-131	
Chlorobenzene	ug/L	50	49.7	99	81-122	
Chloroethane	ug/L	50	59.0	118	39-148	
Chloroform	ug/L	50	48.3	97	73-127	
Chloromethane	ug/L	50	45.3	91	44-146	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	74-124	
cis-1,3-Dichloropropene	ug/L	50	51.6	103	72-132	
Dibromochloromethane	ug/L	50	49.0	98	78-125	
Dibromomethane	ug/L	50	51.4	103	82-120	
Dichlorodifluoromethane	ug/L	50	60.8	122	34-157	
Diisopropyl ether	ug/L	50	50.1	100	69-135	
Ethylbenzene	ug/L	50	50.0	100	79-121	
Hexachloro-1,3-butadiene	ug/L	50	50.2	100	72-131	
m&p-Xylene	ug/L	100	99.3	99	81-124	
Methyl-tert-butyl ether	ug/L	50	54.5	109	74-131	
Methylene Chloride	ug/L	50	50.9	102	64-133	
Naphthalene	ug/L	50	51.9	104	73-133	
o-Xylene	ug/L	50	50.4	101	79-131	
p-Isopropyltoluene	ug/L	50	52.9	106	80-131	
Styrene	ug/L	50	49.8	100	84-126	
Tetrachloroethene	ug/L	50	44.8	90	78-122	
Toluene	ug/L	50	49.1	98	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	71-127	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	69-141	
Trichloroethene	ug/L	50	47.4	95	78-122	
Trichlorofluoromethane	ug/L	50	48.6	97	53-137	
Vinyl acetate	ug/L	100	95.3	95	40-160	

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2212777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	57.9	116	50-150	
Xylene (Total)	ug/L	150	150	100	81-126	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2213222

Parameter	Units	92373788001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.8	109	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.7	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.1	106	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.2	111	70-130	
1,1-Dichloroethane	ug/L	ND	20	20.1	100	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.2	111	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.2	111	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.3	112	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.2	101	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	24.0	120	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.9	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	26.7	133	70-130	M1
1,2-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.2	101	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.5	112	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.7	114	70-130	
1,3-Dichloropropane	ug/L	ND	20	24.3	122	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.4	112	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	356	89	70-130	
2,2-Dichloropropane	ug/L	ND	20	29.2	146	70-130	M1
2-Butanone (MEK)	ug/L	ND	40	36.3	91	70-130	
2-Chlorotoluene	ug/L	ND	20	23.7	118	70-130	
2-Hexanone	ug/L	9.3	40	42.4	83	70-130	
4-Chlorotoluene	ug/L	ND	20	23.5	117	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	41.0	103	70-130	
Acetone	ug/L	ND	40	34.4	86	70-130	
Benzene	ug/L	ND	20	23.1	116	70-148	
Bromobenzene	ug/L	ND	20	23.9	120	70-130	
Bromochloromethane	ug/L	ND	20	20.8	104	70-130	
Bromodichloromethane	ug/L	ND	20	22.5	112	70-130	
Bromoform	ug/L	ND	20	18.7	94	70-130	
Bromomethane	ug/L	ND	20	14.5	69	70-130	M1
Carbon tetrachloride	ug/L	ND	20	23.9	119	70-130	
Chlorobenzene	ug/L	ND	20	23.0	115	70-146	
Chloroethane	ug/L	ND	20	25.9	129	70-130	
Chloroform	ug/L	ND	20	21.4	107	70-130	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2213222

Parameter	Units	92373788001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	ND	20	20.1	100	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.4	102	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	24.7	123	70-130	
Dibromochloromethane	ug/L	ND	20	20.7	104	70-130	
Dibromomethane	ug/L	ND	20	22.7	113	70-130	
Dichlorodifluoromethane	ug/L	ND	20	24.1	120	70-130	
Diisopropyl ether	ug/L	ND	20	20.1	100	70-130	
Ethylbenzene	ug/L	ND	20	24.0	120	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.3	136	70-130	M1
m&p-Xylene	ug/L	ND	40	47.1	118	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.6	113	70-130	
Methylene Chloride	ug/L	ND	20	21.9	110	70-130	
Naphthalene	ug/L	ND	20	23.2	116	70-130	
o-Xylene	ug/L	ND	20	23.7	119	70-130	
p-Isopropyltoluene	ug/L	ND	20	25.3	126	70-130	
Styrene	ug/L	ND	20	22.1	111	70-130	
Tetrachloroethene	ug/L	ND	20	22.1	111	70-130	
Toluene	ug/L	ND	20	23.1	116	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.7	109	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	25.2	126	70-130	
Trichloroethene	ug/L	ND	20	23.1	116	69-151	
Trichlorofluoromethane	ug/L	ND	20	21.9	108	70-130	
Vinyl acetate	ug/L	ND	40	43.0	107	70-130	
Vinyl chloride	ug/L	ND	20	25.3	126	70-130	
Xylene (Total)	ug/L	ND	60	70.9	118	70-130	
1,2-Dichloroethane-d4 (S)	%				89	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2212778

Parameter	Units	92373788015 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

SAMPLE DUPLICATE: 2212778

Parameter	Units	92373788015 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	.42J		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

SAMPLE DUPLICATE: 2212778

Parameter	Units	92373788015 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	98	96	2	
4-Bromofluorobenzene (S)	%	97	99	2	
Toluene-d8 (S)	%	101	104	3	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 399085 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92373788018, 92373788019

METHOD BLANK: 2213465 Matrix: Water
Associated Lab Samples: 92373788018, 92373788019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/18 13:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/18 13:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/18 13:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/18 13:13	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/18 13:13	
1,1-Dichloroethene	ug/L	ND	1.0	02/21/18 13:13	
1,1-Dichloropropene	ug/L	ND	1.0	02/21/18 13:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/21/18 13:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/21/18 13:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/21/18 13:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	02/21/18 13:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/21/18 13:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/18 13:13	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/18 13:13	
1,2-Dichloropropane	ug/L	ND	1.0	02/21/18 13:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/21/18 13:13	
1,3-Dichloropropane	ug/L	ND	1.0	02/21/18 13:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/18 13:13	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	02/21/18 13:13	
2,2-Dichloropropane	ug/L	ND	1.0	02/21/18 13:13	
2-Butanone (MEK)	ug/L	ND	5.0	02/21/18 13:13	
2-Chlorotoluene	ug/L	ND	1.0	02/21/18 13:13	
2-Hexanone	ug/L	ND	5.0	02/21/18 13:13	
4-Chlorotoluene	ug/L	ND	1.0	02/21/18 13:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	02/21/18 13:13	
Acetone	ug/L	ND	25.0	02/21/18 13:13	
Benzene	ug/L	ND	1.0	02/21/18 13:13	
Bromobenzene	ug/L	ND	1.0	02/21/18 13:13	
Bromochloromethane	ug/L	ND	1.0	02/21/18 13:13	
Bromodichloromethane	ug/L	ND	1.0	02/21/18 13:13	
Bromoform	ug/L	ND	1.0	02/21/18 13:13	
Bromomethane	ug/L	ND	2.0	02/21/18 13:13	
Carbon tetrachloride	ug/L	ND	1.0	02/21/18 13:13	
Chlorobenzene	ug/L	ND	1.0	02/21/18 13:13	
Chloroethane	ug/L	ND	1.0	02/21/18 13:13	
Chloroform	ug/L	ND	1.0	02/21/18 13:13	
Chloromethane	ug/L	ND	1.0	02/21/18 13:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/18 13:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/21/18 13:13	
Dibromochloromethane	ug/L	ND	1.0	02/21/18 13:13	
Dibromomethane	ug/L	ND	1.0	02/21/18 13:13	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

METHOD BLANK: 2213465 Matrix: Water
Associated Lab Samples: 92373788018, 92373788019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	02/21/18 13:13	
Diisopropyl ether	ug/L	ND	1.0	02/21/18 13:13	
Ethylbenzene	ug/L	ND	1.0	02/21/18 13:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/21/18 13:13	
m&p-Xylene	ug/L	ND	2.0	02/21/18 13:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/21/18 13:13	
Methylene Chloride	ug/L	ND	2.0	02/21/18 13:13	
Naphthalene	ug/L	ND	1.0	02/21/18 13:13	
o-Xylene	ug/L	ND	1.0	02/21/18 13:13	
p-Isopropyltoluene	ug/L	ND	1.0	02/21/18 13:13	
Styrene	ug/L	ND	1.0	02/21/18 13:13	
Tetrachloroethene	ug/L	ND	1.0	02/21/18 13:13	
Toluene	ug/L	ND	1.0	02/21/18 13:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/18 13:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/21/18 13:13	
Trichloroethene	ug/L	ND	1.0	02/21/18 13:13	
Trichlorofluoromethane	ug/L	ND	1.0	02/21/18 13:13	
Vinyl acetate	ug/L	ND	2.0	02/21/18 13:13	
Vinyl chloride	ug/L	ND	1.0	02/21/18 13:13	
Xylene (Total)	ug/L	ND	1.0	02/21/18 13:13	
1,2-Dichloroethane-d4 (S)	%	91	70-130	02/21/18 13:13	
4-Bromofluorobenzene (S)	%	98	70-130	02/21/18 13:13	
Toluene-d8 (S)	%	99	70-130	02/21/18 13:13	

LABORATORY CONTROL SAMPLE: 2213466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.0	96	80-125	
1,1,1-Trichloroethane	ug/L	50	51.1	102	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	79-124	
1,1,2-Trichloroethane	ug/L	50	50.7	101	85-125	
1,1-Dichloroethane	ug/L	50	44.9	90	73-126	
1,1-Dichloroethene	ug/L	50	47.0	94	66-135	
1,1-Dichloropropene	ug/L	50	46.3	93	74-135	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	73-135	
1,2,3-Trichloropropane	ug/L	50	48.1	96	75-130	
1,2,4-Trichlorobenzene	ug/L	50	51.5	103	75-134	
1,2-Dibromo-3-chloropropane	ug/L	50	45.2	90	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	59.0	118	83-124	
1,2-Dichlorobenzene	ug/L	50	48.5	97	80-133	
1,2-Dichloroethane	ug/L	50	45.9	92	67-128	
1,2-Dichloropropane	ug/L	50	50.4	101	75-132	
1,3-Dichlorobenzene	ug/L	50	49.4	99	77-130	
1,3-Dichloropropane	ug/L	50	54.6	109	76-131	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2213466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.7	99	78-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	937	94	71-125	
2,2-Dichloropropane	ug/L	50	59.7	119	40-160	
2-Butanone (MEK)	ug/L	100	83.1	83	61-144	
2-Chlorotoluene	ug/L	50	48.1	96	74-132	
2-Hexanone	ug/L	100	88.6	89	68-143	
4-Chlorotoluene	ug/L	50	50.2	100	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.7	95	72-135	
Acetone	ug/L	100	85.4	85	48-146	
Benzene	ug/L	50	50.7	101	80-125	
Bromobenzene	ug/L	50	48.3	97	75-125	
Bromochloromethane	ug/L	50	46.3	93	71-125	
Bromodichloromethane	ug/L	50	53.2	106	78-124	
Bromoform	ug/L	50	41.7	83	71-128	
Bromomethane	ug/L	50	33.4	67	40-160	
Carbon tetrachloride	ug/L	50	48.8	98	69-131	
Chlorobenzene	ug/L	50	51.1	102	81-122	
Chloroethane	ug/L	50	58.8	118	39-148	
Chloroform	ug/L	50	45.6	91	73-127	
Chloromethane	ug/L	50	41.3	83	44-146	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	74-124	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	72-132	
Dibromochloromethane	ug/L	50	47.6	95	78-125	
Dibromomethane	ug/L	50	52.5	105	82-120	
Dichlorodifluoromethane	ug/L	50	54.7	109	34-157	
Diisopropyl ether	ug/L	50	46.5	93	69-135	
Ethylbenzene	ug/L	50	52.4	105	79-121	
Hexachloro-1,3-butadiene	ug/L	50	51.7	103	72-131	
m&p-Xylene	ug/L	100	104	104	81-124	
Methyl-tert-butyl ether	ug/L	50	52.0	104	74-131	
Methylene Chloride	ug/L	50	48.6	97	64-133	
Naphthalene	ug/L	50	50.7	101	73-133	
o-Xylene	ug/L	50	52.1	104	79-131	
p-Isopropyltoluene	ug/L	50	52.6	105	80-131	
Styrene	ug/L	50	50.5	101	84-126	
Tetrachloroethene	ug/L	50	46.2	92	78-122	
Toluene	ug/L	50	50.7	101	80-121	
trans-1,2-Dichloroethene	ug/L	50	46.9	94	71-127	
trans-1,3-Dichloropropene	ug/L	50	51.9	104	69-141	
Trichloroethene	ug/L	50	48.8	98	78-122	
Trichlorofluoromethane	ug/L	50	46.2	92	53-137	
Vinyl acetate	ug/L	100	92.2	92	40-160	
Vinyl chloride	ug/L	50	55.5	111	50-150	
Xylene (Total)	ug/L	150	156	104	81-126	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2213467

Parameter	Units	92373788018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	18.5	93	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.2	106	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.3	111	70-130	
1,1-Dichloroethane	ug/L	ND	20	20.2	101	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.1	110	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.6	113	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.5	113	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.7	104	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	23.2	116	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	17.4	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	25.2	126	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	23.0	115	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.9	99	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.2	111	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	23.9	119	70-130	
1,3-Dichloropropane	ug/L	ND	20	24.6	123	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.8	114	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	301	75	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.3	116	70-130	
2-Butanone (MEK)	ug/L	ND	40	32.9	82	70-130	
2-Chlorotoluene	ug/L	ND	20	24.4	122	70-130	
2-Hexanone	ug/L	ND	40	37.6	94	70-130	
4-Chlorotoluene	ug/L	ND	20	24.3	121	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.7	97	70-130	
Acetone	ug/L	ND	40	31.0	78	70-130	
Benzene	ug/L	ND	20	22.8	114	70-148	
Bromobenzene	ug/L	ND	20	23.8	119	70-130	
Bromochloromethane	ug/L	ND	20	20.8	104	70-130	
Bromodichloromethane	ug/L	ND	20	20.5	102	70-130	
Bromoform	ug/L	ND	20	15.2	76	70-130	
Bromomethane	ug/L	ND	20	13.1	65	70-130	M1
Carbon tetrachloride	ug/L	ND	20	20.3	102	70-130	
Chlorobenzene	ug/L	ND	20	23.2	116	70-146	
Chloroethane	ug/L	ND	20	27.0	135	70-130	M1
Chloroform	ug/L	ND	20	21.1	105	70-130	
Chloromethane	ug/L	ND	20	20.2	101	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.9	105	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	22.6	113	70-130	
Dibromochloromethane	ug/L	ND	20	17.8	89	70-130	
Dibromomethane	ug/L	ND	20	23.0	115	70-130	
Dichlorodifluoromethane	ug/L	ND	20	25.9	130	70-130	
Diisopropyl ether	ug/L	ND	20	19.7	98	70-130	
Ethylbenzene	ug/L	ND	20	24.0	120	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	25.2	126	70-130	
m&p-Xylene	ug/L	ND	40	48.1	120	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.1	111	70-130	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2213467

Parameter	Units	92373788018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	19.4	97	70-130	
Naphthalene	ug/L	ND	20	22.2	111	70-130	
o-Xylene	ug/L	ND	20	24.1	121	70-130	
p-Isopropyltoluene	ug/L	ND	20	26.8	134	70-130	M1
Styrene	ug/L	ND	20	23.1	116	70-130	
Tetrachloroethene	ug/L	ND	20	22.9	114	70-130	
Toluene	ug/L	ND	20	24.1	121	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.1	105	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.9	110	70-130	
Trichloroethene	ug/L	ND	20	23.6	118	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.4	112	70-130	
Vinyl acetate	ug/L	ND	40	33.7	84	70-130	
Vinyl chloride	ug/L	ND	20	23.6	118	70-130	
Xylene (Total)	ug/L	ND	60	72.2	120	70-130	
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2213468

Parameter	Units	92373788019 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1,4-Dioxane (p-Dioxane)	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

SAMPLE DUPLICATE: 2213468

Parameter	Units	92373788019 Result	Dup Result	RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	94	97	4	
4-Bromofluorobenzene (S)	%	96	99	3	
Toluene-d8 (S)	%	102	102	0	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 398637
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water MSSV RVE
Associated Lab Samples: 92373788002

METHOD BLANK: 2211053
Matrix: Water
Associated Lab Samples: 92373788002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/20/18 14:42	
1,2-Dichlorobenzene	ug/L	ND	10.0	02/20/18 14:42	
1,3-Dichlorobenzene	ug/L	ND	10.0	02/20/18 14:42	
1,4-Dichlorobenzene	ug/L	ND	10.0	02/20/18 14:42	
1-Methylnaphthalene	ug/L	ND	10.0	02/20/18 14:42	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	02/20/18 14:42	
2,4,5-Trichlorophenol	ug/L	ND	10.0	02/20/18 14:42	
2,4,6-Trichlorophenol	ug/L	ND	10.0	02/20/18 14:42	
2,4-Dichlorophenol	ug/L	ND	10.0	02/20/18 14:42	
2,4-Dimethylphenol	ug/L	ND	10.0	02/20/18 14:42	
2,4-Dinitrophenol	ug/L	ND	50.0	02/20/18 14:42	
2,4-Dinitrotoluene	ug/L	ND	10.0	02/20/18 14:42	
2,6-Dinitrotoluene	ug/L	ND	10.0	02/20/18 14:42	
2-Chloronaphthalene	ug/L	ND	10.0	02/20/18 14:42	
2-Chlorophenol	ug/L	ND	10.0	02/20/18 14:42	
2-Methylnaphthalene	ug/L	ND	10.0	02/20/18 14:42	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/20/18 14:42	
2-Nitroaniline	ug/L	ND	50.0	02/20/18 14:42	
2-Nitrophenol	ug/L	ND	10.0	02/20/18 14:42	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	02/20/18 14:42	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	02/20/18 14:42	
3-Nitroaniline	ug/L	ND	50.0	02/20/18 14:42	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	02/20/18 14:42	
4-Bromophenylphenyl ether	ug/L	ND	10.0	02/20/18 14:42	
4-Chloro-3-methylphenol	ug/L	ND	20.0	02/20/18 14:42	
4-Chloroaniline	ug/L	ND	20.0	02/20/18 14:42	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	02/20/18 14:42	
4-Nitroaniline	ug/L	ND	20.0	02/20/18 14:42	
4-Nitrophenol	ug/L	ND	50.0	02/20/18 14:42	
Acenaphthene	ug/L	ND	10.0	02/20/18 14:42	
Acenaphthylene	ug/L	ND	10.0	02/20/18 14:42	
Aniline	ug/L	ND	10.0	02/20/18 14:42	
Anthracene	ug/L	ND	10.0	02/20/18 14:42	
Benzo(a)anthracene	ug/L	ND	10.0	02/20/18 14:42	
Benzo(a)pyrene	ug/L	ND	10.0	02/20/18 14:42	
Benzo(b)fluoranthene	ug/L	ND	10.0	02/20/18 14:42	
Benzo(g,h,i)perylene	ug/L	ND	10.0	02/20/18 14:42	
Benzo(k)fluoranthene	ug/L	ND	10.0	02/20/18 14:42	
Benzoic Acid	ug/L	ND	50.0	02/20/18 14:42	
Benzyl alcohol	ug/L	ND	20.0	02/20/18 14:42	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	02/20/18 14:42	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

METHOD BLANK: 2211053 Matrix: Water
Associated Lab Samples: 92373788002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	02/20/18 14:42	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	02/20/18 14:42	
Butylbenzylphthalate	ug/L	ND	10.0	02/20/18 14:42	
Chrysene	ug/L	ND	10.0	02/20/18 14:42	
Di-n-butylphthalate	ug/L	ND	10.0	02/20/18 14:42	
Di-n-octylphthalate	ug/L	ND	10.0	02/20/18 14:42	
Dibenz(a,h)anthracene	ug/L	ND	10.0	02/20/18 14:42	
Dibenzofuran	ug/L	ND	10.0	02/20/18 14:42	
Diethylphthalate	ug/L	ND	10.0	02/20/18 14:42	
Dimethylphthalate	ug/L	ND	10.0	02/20/18 14:42	
Fluoranthene	ug/L	ND	10.0	02/20/18 14:42	
Fluorene	ug/L	ND	10.0	02/20/18 14:42	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/20/18 14:42	
Hexachlorobenzene	ug/L	ND	10.0	02/20/18 14:42	
Hexachlorocyclopentadiene	ug/L	ND	10.0	02/20/18 14:42	
Hexachloroethane	ug/L	ND	10.0	02/20/18 14:42	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	02/20/18 14:42	
Isophorone	ug/L	ND	10.0	02/20/18 14:42	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	02/20/18 14:42	
N-Nitrosodimethylamine	ug/L	ND	10.0	02/20/18 14:42	
N-Nitrosodiphenylamine	ug/L	ND	10.0	02/20/18 14:42	
Naphthalene	ug/L	ND	10.0	02/20/18 14:42	
Nitrobenzene	ug/L	ND	10.0	02/20/18 14:42	
Pentachlorophenol	ug/L	ND	25.0	02/20/18 14:42	
Phenanthrene	ug/L	ND	10.0	02/20/18 14:42	
Phenol	ug/L	ND	10.0	02/20/18 14:42	
Pyrene	ug/L	ND	10.0	02/20/18 14:42	
2,4,6-Tribromophenol (S)	%	75	31-170	02/20/18 14:42	
2-Fluorobiphenyl (S)	%	67	45-139	02/20/18 14:42	
2-Fluorophenol (S)	%	53	13-118	02/20/18 14:42	
Nitrobenzene-d5 (S)	%	68	40-121	02/20/18 14:42	
Phenol-d6 (S)	%	44	18-105	02/20/18 14:42	
Terphenyl-d14 (S)	%	74	48-146	02/20/18 14:42	

LABORATORY CONTROL SAMPLE: 2211054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	29.1	58	31-120	
1,2-Dichlorobenzene	ug/L	50	28.1	56	38-120	
1,3-Dichlorobenzene	ug/L	50	29.0	58	30-122	
1,4-Dichlorobenzene	ug/L	50	29.6	59	37-120	
1-Methylnaphthalene	ug/L	50	32.1	64	34-113	
2,2'-Oxybis(1-chloropropane)	ug/L	50	31.2	62	18-120	
2,4,5-Trichlorophenol	ug/L	50	33.7	67	43-113	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2211054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	33.1	66	42-120	
2,4-Dichlorophenol	ug/L	50	35.1	70	30-120	
2,4-Dimethylphenol	ug/L	50	36.1	72	29-111	
2,4-Dinitrophenol	ug/L	250	166	67	19-132	
2,4-Dinitrotoluene	ug/L	50	35.6	71	58-128	
2,6-Dinitrotoluene	ug/L	50	38.0	76	54-129	
2-Chloronaphthalene	ug/L	50	30.6	61	43-117	
2-Chlorophenol	ug/L	50	34.4	69	37-120	
2-Methylnaphthalene	ug/L	50	32.0	64	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.7	67	31-120	
2-Nitroaniline	ug/L	100	68.1	68	48-121	
2-Nitrophenol	ug/L	50	32.9	66	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	32.1	64	23-120	
3,3'-Dichlorobenzidine	ug/L	100	67.6	68	10-154	
3-Nitroaniline	ug/L	100	71.0	71	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	71.9	72	44-124	
4-Bromophenylphenyl ether	ug/L	50	35.9	72	34-113	
4-Chloro-3-methylphenol	ug/L	100	74.7	75	31-110	
4-Chloroaniline	ug/L	100	70.7	71	20-120	
4-Chlorophenylphenyl ether	ug/L	50	35.6	71	34-116	
4-Nitroaniline	ug/L	100	70.9	71	46-128	
4-Nitrophenol	ug/L	250	102	41	11-120	
Acenaphthene	ug/L	50	32.1	64	48-114	
Acenaphthylene	ug/L	50	31.1	62	48-112	
Aniline	ug/L	50	30.1	60	26-120	
Anthracene	ug/L	50	34.1	68	57-118	
Benzo(a)anthracene	ug/L	50	34.3	69	56-121	
Benzo(a)pyrene	ug/L	50	34.4	69	55-127	
Benzo(b)fluoranthene	ug/L	50	35.5	71	53-128	
Benzo(g,h,i)perylene	ug/L	50	35.0	70	54-125	
Benzo(k)fluoranthene	ug/L	50	34.6	69	51-123	
Benzoic Acid	ug/L	250	87.0	35	10-120	
Benzyl alcohol	ug/L	100	54.4	54	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	39.0	78	32-120	
bis(2-Chloroethyl) ether	ug/L	50	37.9	76	33-111	
bis(2-Ethylhexyl)phthalate	ug/L	50	35.5	71	50-145	
Butylbenzylphthalate	ug/L	50	35.6	71	54-138	
Chrysene	ug/L	50	34.2	68	58-127	
Di-n-butylphthalate	ug/L	50	36.2	72	56-125	
Di-n-octylphthalate	ug/L	50	37.2	74	50-134	
Dibenz(a,h)anthracene	ug/L	50	36.5	73	53-129	
Dibenzofuran	ug/L	50	32.5	65	45-120	
Diethylphthalate	ug/L	50	37.1	74	53-120	
Dimethylphthalate	ug/L	50	36.2	72	55-116	
Fluoranthene	ug/L	50	35.0	70	57-125	
Fluorene	ug/L	50	35.0	70	53-118	
Hexachloro-1,3-butadiene	ug/L	50	28.2	56	23-120	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2211054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	35.8	72	49-116	
Hexachlorocyclopentadiene	ug/L	50	26.3	53	26-158	
Hexachloroethane	ug/L	50	27.3	55	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	34.8	70	55-128	
Isophorone	ug/L	50	34.9	70	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	38.1	76	32-119	
N-Nitrosodimethylamine	ug/L	50	33.4	67	13-120	
N-Nitrosodiphenylamine	ug/L	50	33.7	67	43-120	
Naphthalene	ug/L	50	30.7	61	32-120	
Nitrobenzene	ug/L	50	35.3	71	33-110	
Pentachlorophenol	ug/L	100	64.4	64	10-137	
Phenanthrene	ug/L	50	33.5	67	57-117	
Phenol	ug/L	50	26.7	53	10-120	
Pyrene	ug/L	50	34.3	69	55-122	
2,4,6-Tribromophenol (S)	%			70	31-170	
2-Fluorobiphenyl (S)	%			68	45-139	
2-Fluorophenol (S)	%			55	13-118	
Nitrobenzene-d5 (S)	%			69	40-121	
Phenol-d6 (S)	%			48	18-105	
Terphenyl-d14 (S)	%			71	48-146	

MATRIX SPIKE SAMPLE: 2211055

Parameter	Units	92373547001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	41.7	23.6	57	10-110	
1,2-Dichlorobenzene	ug/L	ND	41.7	24.2	58	10-110	
1,3-Dichlorobenzene	ug/L	ND	41.7	21.8	52	10-110	
1,4-Dichlorobenzene	ug/L	ND	41.7	23.2	53	10-110	
1-Methylnaphthalene	ug/L	ND	41.7	29.0	70	14-110	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	41.7	25.1	60	50-150	
2,4,5-Trichlorophenol	ug/L	ND	41.7	31.7	73	19-105	
2,4,6-Trichlorophenol	ug/L	ND	41.7	31.8	76	13-108	
2,4-Dichlorophenol	ug/L	ND	41.7	31.8	76	19-111	
2,4-Dimethylphenol	ug/L	ND	41.7	29.9	72	21-103	
2,4-Dinitrophenol	ug/L	ND	208	146	70	10-109	
2,4-Dinitrotoluene	ug/L	ND	41.7	30.1	72	27-104	
2,6-Dinitrotoluene	ug/L	ND	41.7	30.9	74	28-101	
2-Chloronaphthalene	ug/L	ND	41.7	26.3	63	14-102	
2-Chlorophenol	ug/L	ND	41.7	31.4	75	16-110	
2-Methylnaphthalene	ug/L	ND	41.7	29.1	67	13-110	
2-Methylphenol(o-Cresol)	ug/L	ND	41.7	28.7	69	19-110	
2-Nitroaniline	ug/L	ND	83.3	53.8	65	26-103	
2-Nitrophenol	ug/L	ND	41.7	30.7	74	20-110	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	41.7	28.5	68	20-110	
3,3'-Dichlorobenzidine	ug/L	ND	83.3	23.5	28	25-112	

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REPORT OF LABORATORY ANALYSIS

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2211055

Parameter	Units	92373547001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	ND	83.3	54.2	65	29-110	
4,6-Dinitro-2-methylphenol	ug/L	ND	83.3	73.0	88	10-117	
4-Bromophenylphenyl ether	ug/L	ND	41.7	31.2	75	20-105	
4-Chloro-3-methylphenol	ug/L	ND	83.3	67.2	81	22-110	
4-Chloroaniline	ug/L	ND	83.3	54.0	65	20-100	
4-Chlorophenylphenyl ether	ug/L	ND	41.7	29.6	71	19-102	
4-Nitroaniline	ug/L	ND	83.3	51.1	61	29-110	
4-Nitrophenol	ug/L	ND	208	103	49	10-110	
Acenaphthene	ug/L	ND	41.7	28.2	68	17-100	
Acenaphthylene	ug/L	ND	41.7	27.7	67	21-100	
Aniline	ug/L	ND	41.7	19.0	45	10-110	
Anthracene	ug/L	ND	41.7	29.2	70	24-109	
Benzo(a)anthracene	ug/L	ND	41.7	29.3	70	22-117	
Benzo(a)pyrene	ug/L	ND	41.7	29.5	71	23-104	
Benzo(b)fluoranthene	ug/L	ND	41.7	29.9	72	23-103	
Benzo(g,h,i)perylene	ug/L	ND	41.7	31.4	75	18-111	
Benzo(k)fluoranthene	ug/L	ND	41.7	29.8	72	22-113	
Benzoic Acid	ug/L	ND	208	112	54	10-110	
Benzyl alcohol	ug/L	ND	83.3	45.3	54	19-101	
bis(2-Chloroethoxy)methane	ug/L	ND	41.7	34.4	83	22-110	
bis(2-Chloroethyl) ether	ug/L	ND	41.7	29.1	70	16-110	
bis(2-Ethylhexyl)phthalate	ug/L	ND	41.7	30.5	73	23-102	
Butylbenzylphthalate	ug/L	ND	41.7	31.5	76	25-110	
Chrysene	ug/L	ND	41.7	28.9	69	23-115	
Di-n-butylphthalate	ug/L	ND	41.7	30.9	74	26-110	
Di-n-octylphthalate	ug/L	ND	41.7	31.8	76	23-110	
Dibenz(a,h)anthracene	ug/L	ND	41.7	32.4	78	21-112	
Dibenzofuran	ug/L	ND	41.7	28.2	68	19-102	
Diethylphthalate	ug/L	ND	41.7	30.5	73	29-110	
Dimethylphthalate	ug/L	ND	41.7	30.6	73	27-110	
Fluoranthene	ug/L	ND	41.7	29.4	71	23-112	
Fluorene	ug/L	ND	41.7	29.5	71	22-104	
Hexachloro-1,3-butadiene	ug/L	ND	41.7	22.2	53	10-110	
Hexachlorobenzene	ug/L	ND	41.7	30.3	73	21-116	
Hexachlorocyclopentadiene	ug/L	ND	41.7	22.4	54	10-110	
Hexachloroethane	ug/L	ND	41.7	20.9	50	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	ND	41.7	31.5	76	20-113	
Isophorone	ug/L	ND	41.7	32.9	79	50-150	
N-Nitroso-di-n-propylamine	ug/L	ND	41.7	33.5	80	21-105	
N-Nitrosodimethylamine	ug/L	ND	41.7	29.1	70	10-110	
N-Nitrosodiphenylamine	ug/L	ND	41.7	28.5	68	23-107	
Naphthalene	ug/L	ND	41.7	27.5	62	10-110	
Nitrobenzene	ug/L	ND	41.7	28.7	69	20-110	
Pentachlorophenol	ug/L	4930	83.3	3350	-1900	10-118	M1
Phenanthrene	ug/L	ND	41.7	28.7	69	24-106	
Phenol	ug/L	9.1	41.7	25.4	39	12-110	
Pyrene	ug/L	ND	41.7	30.5	73	24-114	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2211055

Parameter	Units	92373547001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				75	31-170	
2-Fluorobiphenyl (S)	%				70	45-139	
2-Fluorophenol (S)	%				54	13-118	
Nitrobenzene-d5 (S)	%				69	40-121	
Phenol-d6 (S)	%				51	18-105	
Terphenyl-d14 (S)	%				69	48-146	

SAMPLE DUPLICATE: 2211056

Parameter	Units	92373547002 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1-Methylnaphthalene	ug/L	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	ND		
2,4,5-Trichlorophenol	ug/L	ND	ND		
2,4,6-Trichlorophenol	ug/L	ND	ND		
2,4-Dichlorophenol	ug/L	ND	ND		
2,4-Dimethylphenol	ug/L	ND	ND		
2,4-Dinitrophenol	ug/L	ND	ND		
2,4-Dinitrotoluene	ug/L	ND	ND		
2,6-Dinitrotoluene	ug/L	ND	ND		
2-Chloronaphthalene	ug/L	ND	ND		
2-Chlorophenol	ug/L	ND	ND		
2-Methylnaphthalene	ug/L	ND	ND		
2-Methylphenol(o-Cresol)	ug/L	ND	ND		
2-Nitroaniline	ug/L	ND	ND		
2-Nitrophenol	ug/L	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND		
3,3'-Dichlorobenzidine	ug/L	ND	ND		
3-Nitroaniline	ug/L	ND	ND		
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		
4-Bromophenylphenyl ether	ug/L	ND	ND		
4-Chloro-3-methylphenol	ug/L	ND	ND		
4-Chloroaniline	ug/L	ND	ND		
4-Chlorophenylphenyl ether	ug/L	ND	ND		
4-Nitroaniline	ug/L	ND	ND		
4-Nitrophenol	ug/L	ND	ND		
Acenaphthene	ug/L	ND	ND		
Acenaphthylene	ug/L	ND	ND		
Aniline	ug/L	ND	ND		
Anthracene	ug/L	ND	ND		
Benzo(a)anthracene	ug/L	ND	ND		
Benzo(a)pyrene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

SAMPLE DUPLICATE: 2211056

Parameter	Units	92373547002 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/L	ND	ND		
Benzo(g,h,i)perylene	ug/L	ND	ND		
Benzo(k)fluoranthene	ug/L	ND	ND		
Benzoic Acid	ug/L	ND	ND		
Benzyl alcohol	ug/L	ND	ND		
bis(2-Chloroethoxy)methane	ug/L	ND	ND		
bis(2-Chloroethyl) ether	ug/L	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		
Butylbenzylphthalate	ug/L	ND	ND		
Chrysene	ug/L	ND	ND		
Di-n-butylphthalate	ug/L	ND	ND		
Di-n-octylphthalate	ug/L	ND	ND		
Dibenz(a,h)anthracene	ug/L	ND	ND		
Dibenzofuran	ug/L	ND	ND		
Diethylphthalate	ug/L	ND	ND		
Dimethylphthalate	ug/L	ND	ND		
Fluoranthene	ug/L	ND	ND		
Fluorene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
Hexachlorobenzene	ug/L	ND	ND		
Hexachlorocyclopentadiene	ug/L	ND	ND		
Hexachloroethane	ug/L	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		
Isophorone	ug/L	ND	ND		
N-Nitroso-di-n-propylamine	ug/L	ND	ND		
N-Nitrosodimethylamine	ug/L	ND	ND		
N-Nitrosodiphenylamine	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
Nitrobenzene	ug/L	ND	ND		
Pentachlorophenol	ug/L	ND	ND		
Phenanthrene	ug/L	ND	ND		
Phenol	ug/L	8.7	12.7	37	D6
Pyrene	ug/L	ND	ND		
2,4,6-Tribromophenol (S)	%	74	72	3	
2-Fluorobiphenyl (S)	%	61	67	8	
2-Fluorophenol (S)	%	51	51	0	
Nitrobenzene-d5 (S)	%	60	67	11	
Phenol-d6 (S)	%	46	46	0	
Terphenyl-d14 (S)	%	62	67	9	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 399049 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV RVE
Associated Lab Samples: 92373788001, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788012, 92373788013, 92373788014, 92373788015, 92373788018

METHOD BLANK: 2213218 Matrix: Water
Associated Lab Samples: 92373788001, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788012, 92373788013, 92373788014, 92373788015, 92373788018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/21/18 14:03	
1,2-Dichlorobenzene	ug/L	ND	10.0	02/21/18 14:03	
1,3-Dichlorobenzene	ug/L	ND	10.0	02/21/18 14:03	
1,4-Dichlorobenzene	ug/L	ND	10.0	02/21/18 14:03	
1-Methylnaphthalene	ug/L	ND	10.0	02/21/18 14:03	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	02/21/18 14:03	
2,4,5-Trichlorophenol	ug/L	ND	10.0	02/21/18 14:03	
2,4,6-Trichlorophenol	ug/L	ND	10.0	02/21/18 14:03	
2,4-Dichlorophenol	ug/L	ND	10.0	02/21/18 14:03	
2,4-Dimethylphenol	ug/L	ND	10.0	02/21/18 14:03	
2,4-Dinitrophenol	ug/L	ND	50.0	02/21/18 14:03	
2,4-Dinitrotoluene	ug/L	ND	10.0	02/21/18 14:03	
2,6-Dinitrotoluene	ug/L	ND	10.0	02/21/18 14:03	
2-Chloronaphthalene	ug/L	ND	10.0	02/21/18 14:03	
2-Chlorophenol	ug/L	ND	10.0	02/21/18 14:03	
2-Methylnaphthalene	ug/L	ND	10.0	02/21/18 14:03	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/21/18 14:03	
2-Nitroaniline	ug/L	ND	50.0	02/21/18 14:03	
2-Nitrophenol	ug/L	ND	10.0	02/21/18 14:03	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	02/21/18 14:03	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	02/21/18 14:03	
3-Nitroaniline	ug/L	ND	50.0	02/21/18 14:03	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	02/21/18 14:03	
4-Bromophenylphenyl ether	ug/L	ND	10.0	02/21/18 14:03	
4-Chloro-3-methylphenol	ug/L	ND	20.0	02/21/18 14:03	
4-Chloroaniline	ug/L	ND	20.0	02/21/18 14:03	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	02/21/18 14:03	
4-Nitroaniline	ug/L	ND	20.0	02/21/18 14:03	
4-Nitrophenol	ug/L	ND	50.0	02/21/18 14:03	
Acenaphthene	ug/L	ND	10.0	02/21/18 14:03	
Acenaphthylene	ug/L	ND	10.0	02/21/18 14:03	
Aniline	ug/L	ND	10.0	02/21/18 14:03	
Anthracene	ug/L	ND	10.0	02/21/18 14:03	
Benzo(a)anthracene	ug/L	ND	10.0	02/21/18 14:03	
Benzo(a)pyrene	ug/L	ND	10.0	02/21/18 14:03	
Benzo(b)fluoranthene	ug/L	ND	10.0	02/21/18 14:03	
Benzo(g,h,i)perylene	ug/L	ND	10.0	02/21/18 14:03	
Benzo(k)fluoranthene	ug/L	ND	10.0	02/21/18 14:03	
Benzoic Acid	ug/L	ND	50.0	02/21/18 14:03	
Benzyl alcohol	ug/L	ND	20.0	02/21/18 14:03	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

METHOD BLANK: 2213218 Matrix: Water

Associated Lab Samples: 92373788001, 92373788003, 92373788005, 92373788006, 92373788007, 92373788008, 92373788010, 92373788012, 92373788013, 92373788014, 92373788015, 92373788018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	02/21/18 14:03	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	02/21/18 14:03	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	02/21/18 14:03	
Butylbenzylphthalate	ug/L	ND	10.0	02/21/18 14:03	
Chrysene	ug/L	ND	10.0	02/21/18 14:03	
Di-n-butylphthalate	ug/L	ND	10.0	02/21/18 14:03	
Di-n-octylphthalate	ug/L	ND	10.0	02/21/18 14:03	
Dibenz(a,h)anthracene	ug/L	ND	10.0	02/21/18 14:03	
Dibenzofuran	ug/L	ND	10.0	02/21/18 14:03	
Diethylphthalate	ug/L	ND	10.0	02/21/18 14:03	
Dimethylphthalate	ug/L	ND	10.0	02/21/18 14:03	
Fluoranthene	ug/L	ND	10.0	02/21/18 14:03	
Fluorene	ug/L	ND	10.0	02/21/18 14:03	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/21/18 14:03	
Hexachlorobenzene	ug/L	ND	10.0	02/21/18 14:03	
Hexachlorocyclopentadiene	ug/L	ND	10.0	02/21/18 14:03	
Hexachloroethane	ug/L	ND	10.0	02/21/18 14:03	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	02/21/18 14:03	
Isophorone	ug/L	ND	10.0	02/21/18 14:03	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	02/21/18 14:03	
N-Nitrosodimethylamine	ug/L	ND	10.0	02/21/18 14:03	
N-Nitrosodiphenylamine	ug/L	ND	10.0	02/21/18 14:03	
Naphthalene	ug/L	ND	10.0	02/21/18 14:03	
Nitrobenzene	ug/L	ND	10.0	02/21/18 14:03	
Pentachlorophenol	ug/L	ND	25.0	02/21/18 14:03	
Phenanthrene	ug/L	ND	10.0	02/21/18 14:03	
Phenol	ug/L	ND	10.0	02/21/18 14:03	
Pyrene	ug/L	ND	10.0	02/21/18 14:03	
2,4,6-Tribromophenol (S)	%	90	31-170	02/21/18 14:03	
2-Fluorobiphenyl (S)	%	76	45-139	02/21/18 14:03	
2-Fluorophenol (S)	%	57	13-118	02/21/18 14:03	
Nitrobenzene-d5 (S)	%	74	40-121	02/21/18 14:03	
Phenol-d6 (S)	%	49	18-105	02/21/18 14:03	
Terphenyl-d14 (S)	%	79	48-146	02/21/18 14:03	

LABORATORY CONTROL SAMPLE: 2213219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.1	68	31-120	
1,2-Dichlorobenzene	ug/L	50	31.4	63	38-120	
1,3-Dichlorobenzene	ug/L	50	31.4	63	30-122	
1,4-Dichlorobenzene	ug/L	50	32.1	64	37-120	
1-Methylnaphthalene	ug/L	50	35.1	70	34-113	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2213219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/L	50	31.8	64	18-120	
2,4,5-Trichlorophenol	ug/L	50	37.1	74	43-113	
2,4,6-Trichlorophenol	ug/L	50	37.0	74	42-120	
2,4-Dichlorophenol	ug/L	50	40.2	80	30-120	
2,4-Dimethylphenol	ug/L	50	37.4	75	29-111	
2,4-Dinitrophenol	ug/L	250	112	45	19-132	
2,4-Dinitrotoluene	ug/L	50	36.7	73	58-128	
2,6-Dinitrotoluene	ug/L	50	39.0	78	54-129	
2-Chloronaphthalene	ug/L	50	33.3	67	43-117	
2-Chlorophenol	ug/L	50	34.0	68	37-120	
2-Methylnaphthalene	ug/L	50	35.8	72	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.6	69	31-120	
2-Nitroaniline	ug/L	100	67.6	68	48-121	
2-Nitrophenol	ug/L	50	37.3	75	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	32.2	64	23-120	
3,3'-Dichlorobenzidine	ug/L	100	76.6	77	10-154	
3-Nitroaniline	ug/L	100	71.2	71	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	68.4	68	44-124	
4-Bromophenylphenyl ether	ug/L	50	39.3	79	34-113	
4-Chloro-3-methylphenol	ug/L	100	81.3	81	31-110	
4-Chloroaniline	ug/L	100	72.1	72	20-120	
4-Chlorophenylphenyl ether	ug/L	50	36.7	73	34-116	
4-Nitroaniline	ug/L	100	71.9	72	46-128	
4-Nitrophenol	ug/L	250	100	40	11-120	
Acenaphthene	ug/L	50	34.5	69	48-114	
Acenaphthylene	ug/L	50	34.3	69	48-112	
Aniline	ug/L	50	30.9	62	26-120	
Anthracene	ug/L	50	35.9	72	57-118	
Benzo(a)anthracene	ug/L	50	37.6	75	56-121	
Benzo(a)pyrene	ug/L	50	36.4	73	55-127	
Benzo(b)fluoranthene	ug/L	50	36.7	73	53-128	
Benzo(g,h,i)perylene	ug/L	50	41.6	83	54-125	
Benzo(k)fluoranthene	ug/L	50	36.4	73	51-123	
Benzoic Acid	ug/L	250	101	40	10-120	
Benzyl alcohol	ug/L	100	50.7	51	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	40.3	81	32-120	
bis(2-Chloroethyl) ether	ug/L	50	35.3	71	33-111	
bis(2-Ethylhexyl)phthalate	ug/L	50	39.0	78	50-145	
Butylbenzylphthalate	ug/L	50	39.6	79	54-138	
Chrysene	ug/L	50	36.9	74	58-127	
Di-n-butylphthalate	ug/L	50	38.4	77	56-125	
Di-n-octylphthalate	ug/L	50	42.6	85	50-134	
Dibenz(a,h)anthracene	ug/L	50	42.6	85	53-129	
Dibenzofuran	ug/L	50	35.1	70	45-120	
Diethylphthalate	ug/L	50	37.3	75	53-120	
Dimethylphthalate	ug/L	50	37.2	74	55-116	
Fluoranthene	ug/L	50	36.9	74	57-125	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2213219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	50	36.3	73	53-118	
Hexachloro-1,3-butadiene	ug/L	50	33.9	68	23-120	
Hexachlorobenzene	ug/L	50	38.5	77	49-116	
Hexachlorocyclopentadiene	ug/L	50	29.1	58	26-158	
Hexachloroethane	ug/L	50	31.1	62	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	41.2	82	55-128	
Isophorone	ug/L	50	35.1	70	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	36.7	73	32-119	
N-Nitrosodimethylamine	ug/L	50	34.6	69	13-120	
N-Nitrosodiphenylamine	ug/L	50	35.8	72	43-120	
Naphthalene	ug/L	50	33.7	67	32-120	
Nitrobenzene	ug/L	50	35.6	71	33-110	
Pentachlorophenol	ug/L	100	71.9	72	10-137	
Phenanthrene	ug/L	50	35.4	71	57-117	
Phenol	ug/L	50	27.1	54	10-120	
Pyrene	ug/L	50	36.8	74	55-122	
2,4,6-Tribromophenol (S)	%			78	31-170	
2-Fluorobiphenyl (S)	%			72	45-139	
2-Fluorophenol (S)	%			53	13-118	
Nitrobenzene-d5 (S)	%			73	40-121	
Phenol-d6 (S)	%			49	18-105	
Terphenyl-d14 (S)	%			76	48-146	

MATRIX SPIKE SAMPLE: 2213220

Parameter	Units	92373788003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.6	71	10-110	
1,2-Dichlorobenzene	ug/L	ND	50	33.3	67	10-110	
1,3-Dichlorobenzene	ug/L	ND	50	33.8	68	10-110	
1,4-Dichlorobenzene	ug/L	ND	50	35.6	71	10-110	
1-Methylnaphthalene	ug/L	ND	50	38.9	78	14-110	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	27.8	56	50-150	
2,4,5-Trichlorophenol	ug/L	ND	50	38.9	78	19-105	
2,4,6-Trichlorophenol	ug/L	ND	50	39.5	79	13-108	
2,4-Dichlorophenol	ug/L	ND	50	42.3	85	19-111	
2,4-Dimethylphenol	ug/L	ND	50	40.6	81	21-103	
2,4-Dinitrophenol	ug/L	ND	250	18.4J	7	10-109	M1
2,4-Dinitrotoluene	ug/L	ND	50	38.2	76	27-104	
2,6-Dinitrotoluene	ug/L	ND	50	40.1	80	28-101	
2-Chloronaphthalene	ug/L	ND	50	36.2	72	14-102	
2-Chlorophenol	ug/L	ND	50	36.6	73	16-110	
2-Methylnaphthalene	ug/L	ND	50	37.9	76	13-110	
2-Methylphenol(o-Cresol)	ug/L	ND	50	37.6	75	19-110	
2-Nitroaniline	ug/L	ND	100	71.3	71	26-103	
2-Nitrophenol	ug/L	ND	50	38.7	77	20-110	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2213220

Parameter	Units	92373788003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	37.1	74	20-110	
3,3'-Dichlorobenzidine	ug/L	ND	100	58.3	58	25-112	
3-Nitroaniline	ug/L	ND	100	71.0	71	29-110	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	22.6	23	10-117	
4-Bromophenylphenyl ether	ug/L	ND	50	40.0	80	20-105	
4-Chloro-3-methylphenol	ug/L	ND	100	88.1	88	22-110	
4-Chloroaniline	ug/L	ND	100	70.5	70	20-100	
4-Chlorophenylphenyl ether	ug/L	ND	50	38.3	77	19-102	
4-Nitroaniline	ug/L	ND	100	76.7	77	29-110	
4-Nitrophenol	ug/L	ND	250	106	42	10-110	
Acenaphthene	ug/L	ND	50	44.8	73	17-100	
Acenaphthylene	ug/L	ND	50	36.8	74	21-100	
Aniline	ug/L	ND	50	31.3	63	10-110	
Anthracene	ug/L	ND	50	41.2	75	24-109	
Benzo(a)anthracene	ug/L	ND	50	37.8	76	22-117	
Benzo(a)pyrene	ug/L	ND	50	37.5	75	23-104	
Benzo(b)fluoranthene	ug/L	ND	50	37.7	75	23-103	
Benzo(g,h,i)perylene	ug/L	ND	50	41.8	84	18-111	
Benzo(k)fluoranthene	ug/L	ND	50	37.3	75	22-113	
Benzoic Acid	ug/L	ND	250	43.5J	17	10-110	
Benzyl alcohol	ug/L	ND	100	53.0	53	19-101	
bis(2-Chloroethoxy)methane	ug/L	ND	50	40.7	81	22-110	
bis(2-Chloroethyl) ether	ug/L	ND	50	36.9	74	16-110	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	39.1	78	23-102	
Butylbenzylphthalate	ug/L	ND	50	41.4	83	25-110	
Chrysene	ug/L	ND	50	37.4	75	23-115	
Di-n-butylphthalate	ug/L	ND	50	39.7	79	26-110	
Di-n-octylphthalate	ug/L	ND	50	41.7	83	23-110	
Dibenz(a,h)anthracene	ug/L	ND	50	42.6	85	21-112	
Dibenzofuran	ug/L	ND	50	39.0	73	19-102	
Diethylphthalate	ug/L	ND	50	39.0	78	29-110	
Dimethylphthalate	ug/L	ND	50	38.3	77	27-110	
Fluoranthene	ug/L	ND	50	38.7	77	23-112	
Fluorene	ug/L	24.1	50	61.4	75	22-104	
Hexachloro-1,3-butadiene	ug/L	ND	50	35.1	70	10-110	
Hexachlorobenzene	ug/L	ND	50	38.4	77	21-116	
Hexachlorocyclopentadiene	ug/L	ND	50	28.1	56	10-110	
Hexachloroethane	ug/L	ND	50	34.7	69	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	41.0	82	20-113	
Isophorone	ug/L	ND	50	36.5	73	50-150	
N-Nitroso-di-n-propylamine	ug/L	ND	50	38.9	78	21-105	
N-Nitrosodimethylamine	ug/L	ND	50	36.2	72	10-110	
N-Nitrosodiphenylamine	ug/L	ND	50	37.0	74	23-107	
Naphthalene	ug/L	ND	50	36.4	71	10-110	
Nitrobenzene	ug/L	ND	50	36.0	72	20-110	
Pentachlorophenol	ug/L	ND	100	48.6	49	10-118	
Phenanthrene	ug/L	16.6	50	52.7	72	24-106	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2213220

Parameter	Units	92373788003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol	ug/L	ND	50	29.6	59	12-110	
Pyrene	ug/L	ND	50	39.3	76	24-114	
2,4,6-Tribromophenol (S)	%				82	31-170	
2-Fluorobiphenyl (S)	%				75	45-139	
2-Fluorophenol (S)	%				58	13-118	
Nitrobenzene-d5 (S)	%				74	40-121	
Phenol-d6 (S)	%				57	18-105	
Terphenyl-d14 (S)	%				66	48-146	

SAMPLE DUPLICATE: 2213221

Parameter	Units	92373788005 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
1-Methylnaphthalene	ug/L	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	ND		
2,4,5-Trichlorophenol	ug/L	ND	ND		
2,4,6-Trichlorophenol	ug/L	ND	ND		
2,4-Dichlorophenol	ug/L	ND	ND		
2,4-Dimethylphenol	ug/L	ND	ND		
2,4-Dinitrophenol	ug/L	ND	ND		
2,4-Dinitrotoluene	ug/L	ND	ND		
2,6-Dinitrotoluene	ug/L	ND	ND		
2-Chloronaphthalene	ug/L	ND	ND		
2-Chlorophenol	ug/L	ND	ND		
2-Methylnaphthalene	ug/L	ND	ND		
2-Methylphenol(o-Cresol)	ug/L	ND	ND		
2-Nitroaniline	ug/L	ND	ND		
2-Nitrophenol	ug/L	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND		
3,3'-Dichlorobenzidine	ug/L	ND	ND		
3-Nitroaniline	ug/L	ND	ND		
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		
4-Bromophenylphenyl ether	ug/L	ND	ND		
4-Chloro-3-methylphenol	ug/L	ND	ND		
4-Chloroaniline	ug/L	ND	ND		
4-Chlorophenylphenyl ether	ug/L	ND	ND		
4-Nitroaniline	ug/L	ND	ND		
4-Nitrophenol	ug/L	ND	ND		
Acenaphthene	ug/L	ND	ND		
Acenaphthylene	ug/L	ND	ND		
Aniline	ug/L	ND	ND		
Anthracene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

SAMPLE DUPLICATE: 2213221

Parameter	Units	92373788005 Result	Dup Result	RPD	Qualifiers
Benzo(a)anthracene	ug/L	ND	ND		
Benzo(a)pyrene	ug/L	ND	ND		
Benzo(b)fluoranthene	ug/L	ND	ND		
Benzo(g,h,i)perylene	ug/L	ND	ND		
Benzo(k)fluoranthene	ug/L	ND	ND		
Benzoic Acid	ug/L	ND	ND		
Benzyl alcohol	ug/L	ND	ND		
bis(2-Chloroethoxy)methane	ug/L	ND	ND		
bis(2-Chloroethyl) ether	ug/L	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		
Butylbenzylphthalate	ug/L	ND	ND		
Chrysene	ug/L	ND	ND		
Di-n-butylphthalate	ug/L	ND	ND		
Di-n-octylphthalate	ug/L	ND	ND		
Dibenz(a,h)anthracene	ug/L	ND	ND		
Dibenzofuran	ug/L	ND	ND		
Diethylphthalate	ug/L	ND	ND		
Dimethylphthalate	ug/L	ND	ND		
Fluoranthene	ug/L	ND	ND		
Fluorene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
Hexachlorobenzene	ug/L	ND	ND		
Hexachlorocyclopentadiene	ug/L	ND	ND		
Hexachloroethane	ug/L	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		
Isophorone	ug/L	ND	ND		
N-Nitroso-di-n-propylamine	ug/L	ND	ND		
N-Nitrosodimethylamine	ug/L	ND	ND		
N-Nitrosodiphenylamine	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
Nitrobenzene	ug/L	ND	ND		
Pentachlorophenol	ug/L	ND	ND		
Phenanthrene	ug/L	ND	ND		
Phenol	ug/L	ND	ND		
Pyrene	ug/L	ND	ND		
2,4,6-Tribromophenol (S)	%	71	22	105	S0
2-Fluorobiphenyl (S)	%	71	70	2	
2-Fluorophenol (S)	%	46	3	176	S0
Nitrobenzene-d5 (S)	%	70	68	3	
Phenol-d6 (S)	%	45	15	97	S0
Terphenyl-d14 (S)	%	72	73	1	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

QC Batch: 399252 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV RVE
Associated Lab Samples: 92373788011, 92373788019

METHOD BLANK: 2214379 Matrix: Water
Associated Lab Samples: 92373788011, 92373788019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	02/22/18 11:46	
1,2-Dichlorobenzene	ug/L	ND	10.0	02/22/18 11:46	
1,3-Dichlorobenzene	ug/L	ND	10.0	02/22/18 11:46	
1,4-Dichlorobenzene	ug/L	ND	10.0	02/22/18 11:46	
1-Methylnaphthalene	ug/L	ND	10.0	02/22/18 11:46	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	02/22/18 11:46	
2,4,5-Trichlorophenol	ug/L	ND	10.0	02/22/18 11:46	
2,4,6-Trichlorophenol	ug/L	ND	10.0	02/22/18 11:46	
2,4-Dichlorophenol	ug/L	ND	10.0	02/22/18 11:46	
2,4-Dimethylphenol	ug/L	ND	10.0	02/22/18 11:46	
2,4-Dinitrophenol	ug/L	ND	50.0	02/22/18 11:46	
2,4-Dinitrotoluene	ug/L	ND	10.0	02/22/18 11:46	
2,6-Dinitrotoluene	ug/L	ND	10.0	02/22/18 11:46	
2-Chloronaphthalene	ug/L	ND	10.0	02/22/18 11:46	
2-Chlorophenol	ug/L	ND	10.0	02/22/18 11:46	
2-Methylnaphthalene	ug/L	ND	10.0	02/22/18 11:46	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/22/18 11:46	
2-Nitroaniline	ug/L	ND	50.0	02/22/18 11:46	
2-Nitrophenol	ug/L	ND	10.0	02/22/18 11:46	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	02/22/18 11:46	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	02/22/18 11:46	
3-Nitroaniline	ug/L	ND	50.0	02/22/18 11:46	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	02/22/18 11:46	
4-Bromophenylphenyl ether	ug/L	ND	10.0	02/22/18 11:46	
4-Chloro-3-methylphenol	ug/L	ND	20.0	02/22/18 11:46	
4-Chloroaniline	ug/L	ND	20.0	02/22/18 11:46	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	02/22/18 11:46	
4-Nitroaniline	ug/L	ND	20.0	02/22/18 11:46	
4-Nitrophenol	ug/L	ND	50.0	02/22/18 11:46	
Acenaphthene	ug/L	ND	10.0	02/22/18 11:46	
Acenaphthylene	ug/L	ND	10.0	02/22/18 11:46	
Aniline	ug/L	ND	10.0	02/22/18 11:46	
Anthracene	ug/L	ND	10.0	02/22/18 11:46	
Benzo(a)anthracene	ug/L	ND	10.0	02/22/18 11:46	
Benzo(a)pyrene	ug/L	ND	10.0	02/22/18 11:46	
Benzo(b)fluoranthene	ug/L	ND	10.0	02/22/18 11:46	
Benzo(g,h,i)perylene	ug/L	ND	10.0	02/22/18 11:46	
Benzo(k)fluoranthene	ug/L	ND	10.0	02/22/18 11:46	
Benzoic Acid	ug/L	ND	50.0	02/22/18 11:46	
Benzyl alcohol	ug/L	ND	20.0	02/22/18 11:46	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	02/22/18 11:46	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

METHOD BLANK: 2214379 Matrix: Water
Associated Lab Samples: 92373788011, 92373788019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	02/22/18 11:46	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	02/22/18 11:46	
Butylbenzylphthalate	ug/L	ND	10.0	02/22/18 11:46	
Chrysene	ug/L	ND	10.0	02/22/18 11:46	
Di-n-butylphthalate	ug/L	ND	10.0	02/22/18 11:46	
Di-n-octylphthalate	ug/L	ND	10.0	02/22/18 11:46	
Dibenz(a,h)anthracene	ug/L	ND	10.0	02/22/18 11:46	
Dibenzofuran	ug/L	ND	10.0	02/22/18 11:46	
Diethylphthalate	ug/L	ND	10.0	02/22/18 11:46	
Dimethylphthalate	ug/L	ND	10.0	02/22/18 11:46	
Fluoranthene	ug/L	ND	10.0	02/22/18 11:46	
Fluorene	ug/L	ND	10.0	02/22/18 11:46	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	02/22/18 11:46	
Hexachlorobenzene	ug/L	ND	10.0	02/22/18 11:46	
Hexachlorocyclopentadiene	ug/L	ND	10.0	02/22/18 11:46	
Hexachloroethane	ug/L	ND	10.0	02/22/18 11:46	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	02/22/18 11:46	
Isophorone	ug/L	ND	10.0	02/22/18 11:46	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	02/22/18 11:46	
N-Nitrosodimethylamine	ug/L	ND	10.0	02/22/18 11:46	
N-Nitrosodiphenylamine	ug/L	ND	10.0	02/22/18 11:46	
Naphthalene	ug/L	ND	10.0	02/22/18 11:46	
Nitrobenzene	ug/L	ND	10.0	02/22/18 11:46	
Pentachlorophenol	ug/L	ND	25.0	02/22/18 11:46	
Phenanthrene	ug/L	ND	10.0	02/22/18 11:46	
Phenol	ug/L	ND	10.0	02/22/18 11:46	
Pyrene	ug/L	ND	10.0	02/22/18 11:46	
2,4,6-Tribromophenol (S)	%	84	31-170	02/22/18 11:46	
2-Fluorobiphenyl (S)	%	75	45-139	02/22/18 11:46	
2-Fluorophenol (S)	%	56	13-118	02/22/18 11:46	
Nitrobenzene-d5 (S)	%	74	40-121	02/22/18 11:46	
Phenol-d6 (S)	%	42	18-105	02/22/18 11:46	
Terphenyl-d14 (S)	%	86	48-146	02/22/18 11:46	

LABORATORY CONTROL SAMPLE: 2214380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.6	65	31-120	
1,2-Dichlorobenzene	ug/L	50	29.1	58	38-120	
1,3-Dichlorobenzene	ug/L	50	29.2	58	30-122	
1,4-Dichlorobenzene	ug/L	50	31.8	64	37-120	
1-Methylnaphthalene	ug/L	50	36.0	72	34-113	
2,2'-Oxybis(1-chloropropane)	ug/L	50	34.0	68	18-120	
2,4,5-Trichlorophenol	ug/L	50	46.4	93	43-113	

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2214380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	50	46.3	93	42-120	
2,4-Dichlorophenol	ug/L	50	44.3	89	30-120	
2,4-Dimethylphenol	ug/L	50	42.9	86	29-111	
2,4-Dinitrophenol	ug/L	250	234	94	19-132	
2,4-Dinitrotoluene	ug/L	50	44.9	90	58-128	
2,6-Dinitrotoluene	ug/L	50	44.1	88	54-129	
2-Chloronaphthalene	ug/L	50	35.7	71	43-117	
2-Chlorophenol	ug/L	50	39.6	79	37-120	
2-Methylnaphthalene	ug/L	50	36.6	73	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	40.8	82	31-120	
2-Nitroaniline	ug/L	100	79.2	79	48-121	
2-Nitrophenol	ug/L	50	42.3	85	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	35.5	71	23-120	
3,3'-Dichlorobenzidine	ug/L	100	90.8	91	10-154	
3-Nitroaniline	ug/L	100	86.1	86	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	102	102	44-124	
4-Bromophenylphenyl ether	ug/L	50	46.7	93	34-113	
4-Chloro-3-methylphenol	ug/L	100	93.0	93	31-110	
4-Chloroaniline	ug/L	100	82.9	83	20-120	
4-Chlorophenylphenyl ether	ug/L	50	42.3	85	34-116	
4-Nitroaniline	ug/L	100	84.7	85	46-128	
4-Nitrophenol	ug/L	250	132	53	11-120	
Acenaphthene	ug/L	50	38.7	77	48-114	
Acenaphthylene	ug/L	50	39.2	78	48-112	
Aniline	ug/L	50	33.5	67	26-120	
Anthracene	ug/L	50	42.9	86	57-118	
Benzo(a)anthracene	ug/L	50	43.8	88	56-121	
Benzo(a)pyrene	ug/L	50	43.2	86	55-127	
Benzo(b)fluoranthene	ug/L	50	43.6	87	53-128	
Benzo(g,h,i)perylene	ug/L	50	46.9	94	54-125	
Benzo(k)fluoranthene	ug/L	50	42.4	85	51-123	
Benzoic Acid	ug/L	250	103	41	10-120	
Benzyl alcohol	ug/L	100	54.5	54	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	44.3	89	32-120	
bis(2-Chloroethyl) ether	ug/L	50	38.2	76	33-111	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.1	94	50-145	
Butylbenzylphthalate	ug/L	50	47.3	95	54-138	
Chrysene	ug/L	50	44.0	88	58-127	
Di-n-butylphthalate	ug/L	50	46.0	92	56-125	
Di-n-octylphthalate	ug/L	50	50.7	101	50-134	
Dibenz(a,h)anthracene	ug/L	50	48.5	97	53-129	
Dibenzofuran	ug/L	50	39.2	78	45-120	
Diethylphthalate	ug/L	50	44.7	89	53-120	
Dimethylphthalate	ug/L	50	43.4	87	55-116	
Fluoranthene	ug/L	50	43.7	87	57-125	
Fluorene	ug/L	50	41.4	83	53-118	
Hexachloro-1,3-butadiene	ug/L	50	32.1	64	23-120	

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

LABORATORY CONTROL SAMPLE: 2214380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	43.1	86	49-116	
Hexachlorocyclopentadiene	ug/L	50	30.6	61	26-158	
Hexachloroethane	ug/L	50	29.0	58	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	46.9	94	55-128	
Isophorone	ug/L	50	40.1	80	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	40.3	81	32-119	
N-Nitrosodimethylamine	ug/L	50	38.0	76	13-120	
N-Nitrosodiphenylamine	ug/L	50	42.4	85	43-120	
Naphthalene	ug/L	50	33.9	68	32-120	
Nitrobenzene	ug/L	50	39.1	78	33-110	
Pentachlorophenol	ug/L	100	88.9	89	10-137	
Phenanthrene	ug/L	50	41.9	84	57-117	
Phenol	ug/L	50	27.2	54	10-120	
Pyrene	ug/L	50	43.4	87	55-122	
2,4,6-Tribromophenol (S)	%			92	31-170	
2-Fluorobiphenyl (S)	%			84	45-139	
2-Fluorophenol (S)	%			60	13-118	
Nitrobenzene-d5 (S)	%			82	40-121	
Phenol-d6 (S)	%			54	18-105	
Terphenyl-d14 (S)	%			91	48-146	

MATRIX SPIKE SAMPLE: 2214381

Parameter	Units	92373798005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	15.8	32	10-110	
1,2-Dichlorobenzene	ug/L	ND	50	15.5	31	10-110	
1,3-Dichlorobenzene	ug/L	ND	50	14.5	29	10-110	
1,4-Dichlorobenzene	ug/L	2.7J	50	16.6	28	10-110	
1-Methylnaphthalene	ug/L	36.8	50	33.2	-7	14-110	M1
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	16.6	33	50-150	M1
2,4,5-Trichlorophenol	ug/L	ND	50	31.1	62	19-105	
2,4,6-Trichlorophenol	ug/L	ND	50	29.0	58	13-108	
2,4-Dichlorophenol	ug/L	ND	50	27.3	55	19-111	
2,4-Dimethylphenol	ug/L	ND	50	23.5	47	21-103	
2,4-Dinitrophenol	ug/L	ND	250	147	59	10-109	
2,4-Dinitrotoluene	ug/L	ND	50	27.2	54	27-104	
2,6-Dinitrotoluene	ug/L	ND	50	26.8	54	28-101	
2-Chloronaphthalene	ug/L	ND	50	19.6	39	14-102	
2-Chlorophenol	ug/L	ND	50	19.6	39	16-110	
2-Methylnaphthalene	ug/L	47.7	50	37.3	-21	13-110	M1
2-Methylphenol(o-Cresol)	ug/L	ND	50	23.3	47	19-110	
2-Nitroaniline	ug/L	ND	100	46.3J	46	26-103	
2-Nitrophenol	ug/L	ND	50	18.3	37	20-110	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	21.7	43	20-110	
3,3'-Dichlorobenzidine	ug/L	ND	100	46.8	47	25-112	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2214381

Parameter	Units	92373798005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	ND	100	52.7	53	29-110	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	61.5	61	10-117	
4-Bromophenylphenyl ether	ug/L	ND	50	29.9	60	20-105	
4-Chloro-3-methylphenol	ug/L	ND	100	61.3	61	22-110	
4-Chloroaniline	ug/L	ND	100	34.5	35	20-100	
4-Chlorophenylphenyl ether	ug/L	ND	50	25.7	51	19-102	
4-Nitroaniline	ug/L	ND	100	54.2	54	29-110	
4-Nitrophenol	ug/L	ND	250	99.5	40	10-110	
Acenaphthene	ug/L	ND	50	21.8	44	17-100	
Acenaphthylene	ug/L	ND	50	21.3	43	21-100	
Aniline	ug/L	ND	50	12.9	26	10-110	
Anthracene	ug/L	ND	50	27.8	56	24-109	
Benzo(a)anthracene	ug/L	ND	50	29.4	59	22-117	
Benzo(a)pyrene	ug/L	ND	50	28.4	57	23-104	
Benzo(b)fluoranthene	ug/L	ND	50	28.6	57	23-103	
Benzo(g,h,i)perylene	ug/L	ND	50	31.9	64	18-111	
Benzo(k)fluoranthene	ug/L	ND	50	27.5	55	22-113	
Benzoic Acid	ug/L	ND	250	92.0	37	10-110	
Benzyl alcohol	ug/L	ND	100	49.6	50	19-101	
bis(2-Chloroethoxy)methane	ug/L	ND	50	20.1	40	22-110	
bis(2-Chloroethyl) ether	ug/L	ND	50	19.3	39	16-110	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	31.1	62	23-102	
Butylbenzylphthalate	ug/L	ND	50	31.7	63	25-110	
Chrysene	ug/L	ND	50	28.6	57	23-115	
Di-n-butylphthalate	ug/L	ND	50	29.9	60	26-110	
Di-n-octylphthalate	ug/L	ND	50	35.3	71	23-110	
Dibenz(a,h)anthracene	ug/L	ND	50	32.8	66	21-112	
Dibenzofuran	ug/L	ND	50	24.0	48	19-102	
Diethylphthalate	ug/L	ND	50	27.5	55	29-110	
Dimethylphthalate	ug/L	ND	50	25.7	51	27-110	
Fluoranthene	ug/L	ND	50	29.4	59	23-112	
Fluorene	ug/L	ND	50	25.5	48	22-104	
Hexachloro-1,3-butadiene	ug/L	ND	50	15.0	30	10-110	
Hexachlorobenzene	ug/L	ND	50	26.6	53	21-116	
Hexachlorocyclopentadiene	ug/L	ND	50	15.8	32	10-110	
Hexachloroethane	ug/L	ND	50	16.8	34	10-110	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	31.5	63	20-113	
Isophorone	ug/L	ND	50	17.0	34	50-150	M1
N-Nitroso-di-n-propylamine	ug/L	ND	50	18.8	38	21-105	
N-Nitrosodimethylamine	ug/L	ND	50	15.8	32	10-110	
N-Nitrosodiphenylamine	ug/L	ND	50	27.2	54	23-107	
Naphthalene	ug/L	10.0	50	19.6	19	10-110	
Nitrobenzene	ug/L	ND	50	18.7	37	20-110	
Pentachlorophenol	ug/L	ND	100	57.5	58	10-118	
Phenanthrene	ug/L	ND	50	27.2	54	24-106	
Phenol	ug/L	ND	50	15.5	31	12-110	
Pyrene	ug/L	ND	50	27.9	56	24-114	

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(828)254-7176

QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

MATRIX SPIKE SAMPLE: 2214381

Parameter	Units	92373798005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%				61	31-170	
2-Fluorobiphenyl (S)	%				40	45-139	S0
2-Fluorophenol (S)	%				31	13-118	
Nitrobenzene-d5 (S)	%				34	40-121	S0
Phenol-d6 (S)	%				32	18-105	
Terphenyl-d14 (S)	%				54	48-146	

SAMPLE DUPLICATE: 2214382

Parameter	Units	92373798006 Result	Dup Result	RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	2.7J		
1-Methylnaphthalene	ug/L	ND	ND		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	ND		
2,4,5-Trichlorophenol	ug/L	ND	ND		
2,4,6-Trichlorophenol	ug/L	ND	ND		
2,4-Dichlorophenol	ug/L	ND	ND		
2,4-Dimethylphenol	ug/L	ND	ND		
2,4-Dinitrophenol	ug/L	ND	ND		
2,4-Dinitrotoluene	ug/L	ND	ND		
2,6-Dinitrotoluene	ug/L	ND	ND		
2-Chloronaphthalene	ug/L	ND	ND		
2-Chlorophenol	ug/L	ND	ND		
2-Methylnaphthalene	ug/L	ND	ND		
2-Methylphenol(o-Cresol)	ug/L	ND	ND		
2-Nitroaniline	ug/L	ND	ND		
2-Nitrophenol	ug/L	ND	ND		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND		
3,3'-Dichlorobenzidine	ug/L	ND	ND		
3-Nitroaniline	ug/L	ND	ND		
4,6-Dinitro-2-methylphenol	ug/L	ND	ND		
4-Bromophenylphenyl ether	ug/L	ND	ND		
4-Chloro-3-methylphenol	ug/L	ND	ND		
4-Chloroaniline	ug/L	ND	ND		
4-Chlorophenylphenyl ether	ug/L	ND	ND		
4-Nitroaniline	ug/L	ND	ND		
4-Nitrophenol	ug/L	ND	ND		
Acenaphthene	ug/L	ND	ND		
Acenaphthylene	ug/L	ND	ND		
Aniline	ug/L	ND	ND		
Anthracene	ug/L	ND	ND		
Benzo(a)anthracene	ug/L	ND	ND		
Benzo(a)pyrene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Drexel
Pace Project No.: 92373788

SAMPLE DUPLICATE: 2214382

Parameter	Units	92373798006 Result	Dup Result	RPD	Qualifiers
Benzo(b)fluoranthene	ug/L	ND	ND		
Benzo(g,h,i)perylene	ug/L	ND	ND		
Benzo(k)fluoranthene	ug/L	ND	ND		
Benzoic Acid	ug/L	ND	ND		
Benzyl alcohol	ug/L	ND	ND		
bis(2-Chloroethoxy)methane	ug/L	ND	ND		
bis(2-Chloroethyl) ether	ug/L	ND	ND		
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		
Butylbenzylphthalate	ug/L	ND	ND		
Chrysene	ug/L	ND	ND		
Di-n-butylphthalate	ug/L	ND	ND		
Di-n-octylphthalate	ug/L	ND	ND		
Dibenz(a,h)anthracene	ug/L	ND	ND		
Dibenzofuran	ug/L	ND	ND		
Diethylphthalate	ug/L	ND	ND		
Dimethylphthalate	ug/L	ND	ND		
Fluoranthene	ug/L	ND	ND		
Fluorene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
Hexachlorobenzene	ug/L	ND	ND		
Hexachlorocyclopentadiene	ug/L	ND	ND		
Hexachloroethane	ug/L	ND	ND		
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		
Isophorone	ug/L	ND	ND		
N-Nitroso-di-n-propylamine	ug/L	ND	ND		
N-Nitrosodimethylamine	ug/L	ND	ND		
N-Nitrosodiphenylamine	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
Nitrobenzene	ug/L	ND	ND		
Pentachlorophenol	ug/L	ND	ND		
Phenanthrene	ug/L	ND	ND		
Phenol	ug/L	ND	ND		
Pyrene	ug/L	ND	ND		
2,4,6-Tribromophenol (S)	%	76	95	23	
2-Fluorobiphenyl (S)	%	69	79	14	
2-Fluorophenol (S)	%	47	58	22	
Nitrobenzene-d5 (S)	%	67	75	11	
Phenol-d6 (S)	%	46	53	15	
Terphenyl-d14 (S)	%	66	76	14	

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(828)254-7176

QUALIFIERS

Project: Drexel
Pace Project No.: 92373788

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Drexel
Pace Project No.: 92373788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92373788001	**MW-1**	EPA 3010A	398907	EPA 6010	398965
92373788002	**MW-1D**	EPA 3010A	398907	EPA 6010	398965
92373788003	**MW-2**	EPA 3010A	398907	EPA 6010	398965
92373788005	**MW-3**	EPA 3010A	398907	EPA 6010	398965
92373788006	**MW-9**	EPA 3010A	398907	EPA 6010	398965
92373788007	**MW-5**	EPA 3010A	398907	EPA 6010	398965
92373788008	**MW-6**	EPA 3010A	398907	EPA 6010	398965
92373788010	**MW-7**	EPA 3010A	398907	EPA 6010	398965
92373788011	**MW-7D**	EPA 3010A	398907	EPA 6010	398965
92373788012	**MW-10**	EPA 3010A	398907	EPA 6010	398965
92373788013	**MW-11**	EPA 3010A	398907	EPA 6010	398965
92373788014	**MW-12**	EPA 3010A	398907	EPA 6010	398965
92373788015	**MW-8**	EPA 3010A	398907	EPA 6010	398965
92373788018	**MW-3D**	EPA 3010A	398977	EPA 6010	399037
92373788019	**MW-4**	EPA 3010A	398977	EPA 6010	399037
92373788001	**MW-1**	EPA 7470	399279	EPA 7470	399320
92373788002	**MW-1D**	EPA 7470	399279	EPA 7470	399320
92373788003	**MW-2**	EPA 7470	399279	EPA 7470	399320
92373788005	**MW-3**	EPA 7470	399279	EPA 7470	399320
92373788006	**MW-9**	EPA 7470	399279	EPA 7470	399320
92373788007	**MW-5**	EPA 7470	399279	EPA 7470	399320
92373788008	**MW-6**	EPA 7470	399279	EPA 7470	399320
92373788010	**MW-7**	EPA 7470	399279	EPA 7470	399320
92373788011	**MW-7D**	EPA 7470	399279	EPA 7470	399320
92373788012	**MW-10**	EPA 7470	399279	EPA 7470	399320
92373788013	**MW-11**	EPA 7470	399279	EPA 7470	399320
92373788014	**MW-12**	EPA 7470	399279	EPA 7470	399320
92373788015	**MW-8**	EPA 7470	399279	EPA 7470	399320
92373788018	**MW-3D**	EPA 7470	399279	EPA 7470	399320
92373788019	**MW-4**	EPA 7470	399279	EPA 7470	399320
92373788001	**MW-1**	EPA 3510	399049	EPA 8270	399233
92373788002	**MW-1D**	EPA 3510	398637	EPA 8270	398888
92373788003	**MW-2**	EPA 3510	399049	EPA 8270	399233
92373788005	**MW-3**	EPA 3510	399049	EPA 8270	399233
92373788006	**MW-9**	EPA 3510	399049	EPA 8270	399233
92373788007	**MW-5**	EPA 3510	399049	EPA 8270	399233
92373788008	**MW-6**	EPA 3510	399049	EPA 8270	399233
92373788010	**MW-7**	EPA 3510	399049	EPA 8270	399233
92373788011	**MW-7D**	EPA 3510	399252	EPA 8270	399346
92373788012	**MW-10**	EPA 3510	399049	EPA 8270	399233
92373788013	**MW-11**	EPA 3510	399049	EPA 8270	399233
92373788014	**MW-12**	EPA 3510	399049	EPA 8270	399233
92373788015	**MW-8**	EPA 3510	399049	EPA 8270	399233
92373788018	**MW-3D**	EPA 3510	399049	EPA 8270	399233
92373788019	**MW-4**	EPA 3510	399252	EPA 8270	399346

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Drexel
Pace Project No.: 92373788

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92373788001	**MW-1**	EPA 8260	398921		
92373788002	**MW-1D**	EPA 8260	398921		
92373788003	**MW-2**	EPA 8260	398921		
92373788004	**T-5**	EPA 8260	398921		
92373788005	**MW-3**	EPA 8260	398921		
92373788006	**MW-9**	EPA 8260	398921		
92373788007	**MW-5**	EPA 8260	398725		
92373788008	**MW-6**	EPA 8260	398921		
92373788009	**T-6**	EPA 8260	398921		
92373788010	**MW-7**	EPA 8260	398921		
92373788011	**MW-7D**	EPA 8260	398921		
92373788012	**MW-10**	EPA 8260	398921		
92373788013	**MW-11**	EPA 8260	398921		
92373788014	**MW-12**	EPA 8260	398921		
92373788015	**MW-8**	EPA 8260	398921		
92373788016	**T-7**	EPA 8260	398921		
92373788017	**T-8**	EPA 8260	398921		
92373788018	**MW-3D**	EPA 8260	399085		
92373788019	**MW-4**	EPA 8260	399085		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: FCS

Project # WO#: 92373788

92373788

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: RDS 2/16/18

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 7027 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 0.1 / 5.7 / 6.0 / 0.3 **Correction Factor:** Add/Subtract (°C) NA

Cooler Temp Corrected (°C): 0.1 / 5.7 / 6.0 / 0.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☐ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered? 1205 2/16/18	☑ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: TR **Date:** 2/22

Project Manager SRF Review: TR **Date:** 2/22

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # WO#: 92373788

PM: PTE Due Date: 02/23/18

CLIENT: 93-ECS ASH

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1									1	2						6													
2										2						6													
3										2						6													
4																2													
5										2						6													
6										2						6													
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8										2						6													
9										2						6													
10										2						6													
11																2													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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1984826

Section A Required Client Information:

Company:	ECS
Address:	1900 HENDERSONVILLE RD, STE 1D ASHEVILLE, NC
Email To:	JBEVERS@ECSLIMITED.COM
Phone:	828-665-2507 Fax:
Requested Due Date/TAT:	5

Section B Required Project Information:

Report To:	JIM BEVERS
Copy To:	
Purchase Order No.:	
Project Name:	DUKE
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 8260 VOC + 1,4-Dioxane	8270 SVOCs	6010 Total RCRA Metals	8260 VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			2/14	1730	9		X	1	X	X		X				X	X	X				001
2	MW-1D	WT	G			2/14	1730	9		X		X	X		X				X	X	X				002
3	MW-2	WT	G			2/14	1830	9		X		X	X		X				X	X	X				003
4	T-5	WT	G			2/14	1815	2					X									X			004
5	MW-3	WT	G			2/15	1045	9		X		X	X		X				X	X	X				005
6	MW-3D	WT	G			2/15	1045	9		X		X	X		X				X	X	X				018
7	MW-4	WT	G			2/15	1145	9		X		X	X		X				X	X	X				019
8	MW-9	WT	G			2/16	1300	9		X		X	X		X				X	X	X				006
9	MW-5	WT	G			2/15	1345	9		X		X	X		X				X	X	X				007
10	MW-6	WT	G			2/15	1445	9		X		X	X		X				X	X	X				008
11	T-6	WT	G			2/15	1500	2					X									X			009
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	ECS	2/16	1615		2/16/18	16:15	5.7	Y	N	Y
							0.1			
							6.0			
							0.3			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JAMES C BEVERS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/16/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1										7						6													
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1984827

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GCS	Report To: Jim Beavers	Attention:
Address: 1600 Hendersonville Rd Ste 1 Asheville, NC	Copy To:	Company Name:
		Address:
Email To: JBeavers@gcsww.com	Purchase Order No.:	Pace Quote Reference:
Phone: 828-665-2307 Fax:	Project Name: Duke	Pace Project Manager:
Requested Due Date/TAT: 5	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 8260 VOCs Standard	8270 SVOCs	8260 TCL + Naphthalene + 1,4-Dioxane	8260 VOCs							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92373788
1	MW-7	WT	G			2/16	1330		9	X	X	X							X	X	X	X							010
2	MW-7D	WT	G			2/16	1330		9	X	X	X							X	X	X	X							011
3	MW-10	WT	G			2/16	1430		9	X	X	X							X	X	X	X							012
4	MW-11	WT	G			2/16	1240		9	X	X	X							X	X	X	X							013
5	MW-12	WT	G			2/16	1300		9	X	X	X							X	X	X	X							014
6	MW-8	WT	G			2/16	1420		9	X	X	X							X	X	X	X							015
7	T-7	WT	G			2/16	1450		2				X									X							016
8	T-8	WT	G			2/16	1415		2				X									X							017
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] /GCS	2/16	1615	[signature]	2/16/18	1615	5.7	Y	N	Y
							0.1			
							6.0			
							0.3			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JAMES C BEAVERS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/16/18

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ASBESTOS ABATEMENT SPECIFICATIONS

FOR

FORMER DREXEL FACILITY
BLUE RIDGE AND CARSON STREET
MARION,NORTH CAROLINA28752

ECS Project No. 49:3978-D

Prepared For:

City of Marion
194 North Main Street
Marion, North Carolina 28752

Project Designer:

Anthony Scialdone
NC Asbestos Designer Accreditation No. 40426

ECS Southeast, LLP
9001 Glenwood Avenue
Raleigh, North Carolina 27617
Telephone (919) 861-9910

March 5, 2018

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- ECS Report of Limited Asbestos Assessment (ECS Project No: 49-3978-B**,** dated July 7, 2017)

GENERAL PROJECT INFORMATION

The subject property consists of multiple former mill buildings in various states of demolition on a parcel of land totaling 15.29 acres and located within the Marion city limits, at the intersection of Blue Ridge and Carson Streets. ECS Southeast, LLP (ECS) understands the existing structures and debris piles will potentially be disturbed as part of redevelopment/demolition activities once the City of Marion acquires the property. At the time of our assessment, the buildings located at the subject property were either demolished or partially demolished.

ECS has prepared the specifications to address removal of asbestos-containing materials (ACM) from the debris piles and remaining buildings. The asbestos abatement contractor shall remove all building materials from the debris piles or segregate the ACM from the piles. If the contractor cannot segregate the ACM, additional building materials to be removed and disposed of as ACM includes, but is not limited to, bricks, paneling, steel beams, insulation, wood, electrical components, plastic, concrete block, etc.

A Limited Asbestos Assessment was prepared by ECS (ECS Project Number 49:3978-B) dated July 7, 2017. The report is included in Appendix B. A summary of ACM to be removed prior to demolition activities in Section A is included in the next section.

SUMMARY OF ASBESTOS-CONTAINING MATERIALS

Based on the laboratory analysis of the bulk samples collected during the assessment, the following materials were reported to contain asbestos. Please see the attached limited assessment report for sample locations.

- Black Mastics on Brick and CMU Block
- Cementitious Panels
- 12" Grey Floor Tile and Black Mastic in the Office
- White Window Glazing in the Office

Sample I	Location	Material Description	Analytical Results	Estimated Quantity
02-01 02-02	Pile #2	Black Mastic on Brick	4% Chrysotile	3,000 SF
03-01 03-02	Pile #1	Black Mastic on Brick	10% Chrysotile	500 SF
04-01 04-02	Pile #1	Black Mastic on Brick	10% Chrysotile	500 SF
05-01 05-02	Pile #3	Cementitious Panel	15% Chrysotile	100 SF
07-01 07-02	Pile #4	Black Mastic on Brick	15% Chrysotile	750 SF
13-01 13-02	Office	12" Blue Floor Tile and Yellow Mastic (top layer) and 12" Grey Floor Tile and Black Mastic (bottom layer)	Blue Tile and Mastic – No asbestos; Grey Tile - 5% Chrysotile; Black Mastic - 6% Chrysotile	800 SF
18-01 18-02	Office	White Window Glazing	2% Chrysotile	200 SF
21-01 21-02	Pile #10	Black Mastic on Brick	6% Chrysotile	400 SF
22-01 22-02	Pile #10	Cementitious Panel	25% Chrysotile	100 SF

ECS has prepared the specifications to address the abatement of the ACM listed in the above table.

A. The asbestos abatement contractor will be licensed general contractors in either the specialty interior, building, unclassified or asbestos categories by the North Carolina Licensing Board of General Contractors and limited for the bid amount.

B. A considerable amount of sorting through the debris piles will be required to access ACM. The demolition will not be required to be performed inside a negative pressure containment/enclosure but engineering controls will need to be utilized in order to keep friable materials from creating visible emissions throughout the sorting and disposal process to ensure that the building materials do not become further contaminated during demolition activities. In addition, materials that can be recycled or salvaged must be segregated and decontaminated, when feasible, by the abatement contractor. Visual confirmation shall be performed by an on-site North Carolina accredited Asbestos Inspector at the same time as abatement and demolition to maintain efficiency during the project. Abatement of ACM must be performed by a licensed asbestos abatement company while performing demolition.

C. The contractor has and assumes the responsibility of proceeding in such a manner that he offers his employees a workplace free of recognized hazards causing or likely to cause death or serious injury. The contractor shall be responsible for performing this abatement and disposal so that airborne asbestos fiber levels do not exceed established levels.

D. The abatement contractor shall be responsible for inspecting the site prior to bidding to confirm the scope of the work. Quantities listed by ECS in the specifications and assessment report are done so as approximations. The actual quantity of ACM to be abatement is the responsibility of the abatement contractor. Debris piles were not thoroughly sorted through during the asbestos assessment and some ACM may have been concealed in the debris piles and not included in the quantifications.

E. The contractor shall furnish and is responsible for all costs including, but not limited to: permit fees, containment preparation, labor, materials, services, insurance, bonding, and equipment necessary to carry out the abatement operations and disposal of all asbestos material in accordance with the plans and specifications, the EPA and OSHA regulations, and any applicable state and local government regulations.

F. The contractor is responsible for all costs, including additional visits, should the designer and/or ECS air monitor determine that the contractor failed a final inspection or air clearance. Notification and scheduling of the final inspection during the project is the responsibility of the contractor. The contractor will allow a minimum notice of 48 hours unless a different time frame is agreed upon by the designer and the contractor.

G. The abatement contractor will be responsible for costs associated with employee monitoring to meet the OSHA requirements. The results of personal air samples are to be posted or at least available on the job site for review within forty-eight (48) hours of collecting the air samples.

SECTION 01043

PROJECT COORDINATION

1.01 GENERAL

A. The abatement contractor will be licensed general contractors in either the specialty interior, building, unclassified or asbestos categories by the North Carolina Licensing Board of General Contractors and limited for the bid amount.

B. The contractor shall be responsible for inspecting the site prior to bidding to confirm the scope of the work and quantities of ACM. Quantities listed by ECS are done so as estimations. During the initial assessment and follow up site visits, several of the buildings had inaccessible areas or the buildings were flooded from roof leaks, inhibiting quantity verification.

C. The contractor shall furnish and is responsible for all costs including, but not limited to: permit fees, containment preparation, scaffolding, labor, materials, services, insurance, bonding, and equipment necessary to carry out the abatement operations. All work including abatement and disposal of asbestos material will be in accordance with the plans and specifications, the Environmental Protection Agency (EPA) and Occupational Safety and Health Association (OSHA) regulations, and applicable state and local government regulations.

D. The contractor/employer has and assumes the responsibility of proceeding in such a manner that he offers his employees a workplace free of recognized hazards causing or likely to cause death or serious injury. The contractor shall be responsible for performing this abatement and disposal so that airborne asbestos fiber levels do not exceed established levels.

E. The contractor will be responsible for all costs associated with employee monitoring to meet the OSHA requirements.

F. The contractor is responsible for all costs, including additional visits, should the asbestos inspector determine that the contractor failed a final inspection. Notification and scheduling of final inspections during the project is the responsibility of the contractor. The contractor will allow a minimum notice of 48 hours, unless the air monitor and the contractor agree upon a different time frame.

G. The contractor shall coordinate work activities with the owner, general contractor and the air monitor.

H. ECS and the Owner shall be held harmless of liability from the contractor(s) or owner(s) failure to complete the work under applicable regulations including EPA and OSHA regulations and applicable state and local government regulations.

1.02 PERSONNEL

A. Supervisor

1. All supervisors shall be accredited by the North Carolina Health Hazards Control Unit (HHCU).

2. All supervisors on the project shall have two years experience in the administration and supervision of asbestos abatement projects including work practices, protective measures for building and personnel and disposal procedures.

3. One supervisor shall be provided for every 10 workers. A minimum of one supervisor shall be provided per project. The abatement contractor shall have a supervisor on the site at all times.

4. The contractor shall have at least one employee on the job site in either a foreman or supervisors position that is bilingual in the appropriate languages when employing workers who do not speak fluent English.

B. Worker

1. Workers shall be accredited by the HHCU.

2. The abatement contractor is responsible for supplying the required number of workers to complete the project within the designated project schedule.

C. Competent Person

1. A competent person, as defined in the OSHA asbestos standard 29 CFR 1926.1101, employed by the contractor must be outside the work area at all times to monitor activity, ensure containment security, provide information to visitors, and provide access to the work area.

D. Employees

1. The contractor is responsible for the behavior of workers within his employment. If during the contracted work, an employee is judged to exhibit behavior unfitting for the area or judged to be a nuisance by the owner, air monitor or ECS, the contractor shall remove them immediately from the project.

2. The contractor shall be responsible for compliance with the following concerning employee behavior:

   a. Under no circumstances are alcohol, drugs or other type of controlled substances permitted on the property.

   b. Workers are restricted to the construction project site only.

c. Vehicles must be parked in areas approved by the owner.

d. Workers must conform to the following basic dress code when in public areas of the project confines: long pants, shirts, no tank tops, no shorts, no bare backs.

e. The contractor is responsible for disposal of trash brought on the property by his employees, including drink cans, bottles or other food containers and wrappers.

f. Eating, drinking, and smoking are not allowed in the containment area(s) or regulated areas where asbestos abatement activities are being performed.

3. Failure to adhere to these rules could result in criminal prosecution and/or removal from the property.

1.03 SUBMITTALS

A. Submit two complete, bound sets of post-job submittals to ECS following the final completion of the work.

1. Affidavits: Contractor's affidavit of payment of debts and claims, affidavit of release of liens, and consent of surety company to final payment.

2. Manifest: North Carolina Asbestos Waste Shipment Record (DEHNR 3787) receipt from landfill operator that acknowledges the contractor's delivery(s) of waste material. Include date, quantity of material delivered and signature of authorized representative of landfill. Also, include name of waste transporter.

3. Daily Supervisor Log: A notarized copy of daily logs showing the following: name, date, entering and leaving time, company or agency represented, reason for entry for persons entering the work area, employee's daily air monitoring data as required by the OSHA standard and written comments by inspectors, ECS and visitors.

4. Medical: Copies of worker release forms, asbestos training certification forms and respirator training documentation of new employees hired during the project.

5. Special Reports: Documents generated under Section 01043.1.06.

B. Requests for final payment will not be approved until the submittal package has been reviewed and approved by ECS and the owner.

1.04 SPECIAL REPORTS

A. General: Except as otherwise indicated, submit special reports to ECS within one day of occurrence requiring special report, with copies to others affected by occurrence. Also keep a copy in the project logbook.

B. Reporting Unusual Events: When an event of unusual and significant nature occurs at site (examples: failure of negative pressure system, rupture of temporary enclosures), prepare and submit a special report to ECS immediately, listing chain of events, persons participating, response by contractor's personnel, evaluation of results or effects, and similar pertinent information. When such events are known or predictable in advance, advise ECS in advance at earliest possible date.

C. Reporting Incidents: Prepare and submit reports of significant incident, at site and anywhere else work is in progress. A complete copy of the incident report shall be provided to ECS and owner within 24-hours of the incident occurrence. Record and document date and actions; comply with industry standards for reporting incidents. For this purpose, a significant incident is defined to include events where personal injury is sustained, or property loss of substance is sustained, or where the event posed a significant threat of loss or personal injury.

SECTION 01092

CODES AND REGULATIONS

1.01 REFERENCE SPECIFICATIONS

The contractor shall assume full responsibility and liability for compliance with applicable federal, state and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and areas adjacent to the site.

Unless modified by this project specification, specifications for stripping, removal, repair and disposal work shall conform to the following specifications and standards, as applicable and other applicable standards, as if completely reproduced herein.

A. The following regulations published by the Environmental Protection Agency (EPA):

1. "National Emissions Standards for Hazardous Air Pollutants Asbestos," 40 CFR Part 61, Subpart M.

2. "General Provisions," 40 CFR Part 61, Subpart A.

3. "Guidance for Controlling Asbestos-Containing Materials in Buildings" June 1985. (EPA # 560/5-85-024).

4. "Asbestos-Containing Materials in Schools," 40 CFR Part 763, Subpart E including appendices.

B. The following regulations published by the U.S. Department of Labor, OSHA:

1. “Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules,” Title 29, Part 1910, Section 1001 and Part 1926, Section 1101 of the Code of Federal Regulations.

2. “Respiratory Protection,” Title 29, Part 1910, Section 134 of the Code of Federal Regulations.

3. Construction Industry, Title 29, Part 1926, of the Code of Federal Regulations.

4. “Access to Employee Exposure and Medical Records,” Title 29, Part 1910, Section 20 of the Code of Federal Regulations.

5. “Hazard Communication,” Title 29, Part 1926, Section 59 of the Code of Federal Regulations.

6. “Specifications for Accident Prevention Signs and Tags,” Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

C. The following regulations published by North Carolina state agencies:

1. North Carolina Asbestos Hazard Management Program Rules as adopted by 15A NCAC 19C .0600.

2. "North Carolina Occupational Safety and Health Standards for the Construction Industry," 29 CFR Part 1926 as adopted by T13 NCAC 07F .0201, and shipyard T13:07F.0500.

3. North Carolina General Statutes, Chapter 95, 97, 130.

D. The following documents published by the American National Standards Institute:

1. "Fundamentals Governing the Design and Operation of Local Exhaust Systems," Z9.2-1979.

2. "American National Standard for Respiratory Protection Respiratory Use - Physical Qualifications for Personnel," Z88.6-1984.

3. "Practices for Respiratory Protection," Z88.2-1992.

1.02 NOTICES

A. The contractor shall notify the following offices in writing within the time frame specified by the NESHAP regulations prior to beginning any asbestos removal operations.

1. State Agencies

Health Hazards Control Unit
N.C. Department of Health and Human Services –OEEB
Division of Public Health

(Regular Mail)		*(UPS, Fed Ex, etc.)*
1912 Mail Service Center		5505 Six Forks Road
Raleigh, N.C. 27699-1912		Second Floor
Telephone:	(919) 733-0820	Room D-1
Fax:	(919) 733-8493	Raleigh, N.C. 27609

N.C. Department of Labor
Division of Occupational Safety and Health
319 Chapanoke Road, Suite 105
Raleigh, N.C. 27603-3432
Telephone: 1-800-LABOR-NC or (919) 662-4602
Fax: (919) 662-4625

2. Emergency Departments

   Notify the local emergency medical services, police and fire departments in writing of the type and scope of work being performed and request these departments make an inspection prior to beginning the work.

3. Licenses

   Maintain current licenses for contractor and accreditation for workers and supervisors as required by applicable state or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to the work of this contract.

4. Contractor is responsible for payment of permit fees required for this project.

SECTION 01410

AIR MONITORING - INDUSTRIAL HYGIENE FIRM

1.01 GENERAL

A. ECS is contracted with the client for industrial hygiene, inspector, and air monitoring services. The contractor does not need to include the cost for these services in your budget.

B. The contractor shall provide power, electrical cords, GFI's, etc. for the air monitor (if needed).

C. Air monitoring shall be done under the direct supervision of a North Carolina accredited Supervising Air Monitor (SAM), except for sampling performed by the contractor to satisfy OSHA requirements.

D. SAM shall be accredited per the Asbestos Hazard Management Program rules.

E. Air monitor shall be accredited as per the Asbestos Hazard Management Program rules and work under the direct supervision of a SAM.

F. The SAM shall have taken a protection course that is either National Institute for Occupational Safety and Health (NIOSH), American Industrial Hygiene Association (AIHA) or HHCU recognized.

G. Employees of the HHCU shall have right of entry into the project. The HHCU's SAM shall have final authority over the air monitoring firm on the project.

1.02 DESCRIPTION OF WORK

A. The air monitoring firm may offer recommendations to the contractor as related to air monitoring, but is not directly responsible for the performance of the job.

B. At the job site, the air monitor is expected to observe, be aware, and comment on general work site conditions and activities as they relate to the specifications and profession of industrial hygiene, and make recommendations in writing to the contractor.

C. The air monitor is responsible for overseeing the protection of the environment from contamination, protection of persons in adjacent areas, and assurance that the areas are acceptable for occupancy.

D. The air monitor has the authority to direct the contractor relative to safety and environmental concerns. This includes stopping work, if necessary. In the event of a work stoppage, directions and comments made by the air monitor to the contractor shall be written and a copy shall be provided to the owner. The air

monitor has the authority to direct the contractor to resume work when the safety and environmental concern(s) has (have) been controlled.

E. The SAM shall approve any change in contractor's respiratory protection. This includes a review of the historical data.

F. The air monitor is to conform to the contractor's schedule and shall respond to necessary changes, provided an advance notice is given as outlined in Section 01043.

G. The air monitor shall furnish contractor and the owner with a phone number where they may most frequently be reached.

H. The air monitor shall notify the abatement contractor immediately via phone and within 24 hours, in writing, of elevated air sample results.

I. At the completion of the project, the air monitor shall prepare a report describing the assessment of the project, air monitoring data, and a description of the project as it proceeded to completion.

1.03 AIR MONITORING

A. Ambient Air Monitoring: The purpose of ambient air monitoring by the air monitor will be to detect discrepancies in the work area isolation such as:

1. Contamination of outside of the work area with airborne asbestos fibers.

2. Confirm the work practices established by the contractor and respiratory protection provided for employees are adequate.

B. Supplemental air monitoring may be conducted by the HHCU. This supplemental sampling does not fulfill air monitoring responsibilities required by OSHA, EPA or this contract.

C. The air monitor shall collect background PCM air samples in various locations at the project site prior to abatement activities.

D. The air monitor shall collect PCM air samples during abatement activities for at least three shifts. If the sample results are consistently less than either the clearance level (0.01 fibers per cubic centimeter) or the background level (whichever is higher), then air monitoring activities may cease after three shifts.

E. An asbestos inspector is still required to perform visual clearances during the project.

SECTION 01503

TEMPORARY FACILITIES

1.01 GENERAL

A. Provide temporary facilities as required herein or as necessary to carry out the work. The site is mostly demolished and likely does not have utilities available.

B. The contractor shall lock and tag out electrical and Heating, Ventilation, and Air Conditioning (HVAC) equipment in the asbestos abatement areas. The contractor shall verify that the power and HVAC have been locked and tagged out prior to beginning work (if present).

1.02 WATER SERVICE

A. Water is being provided by the owner. The owner will be paying tap fees and they will be installed by the General Contractor. The contractor bears the expense of getting water to the work and decontamination areas and heating that water.

B. Supply hot and cold water to the decontamination unit in accordance with Section 01563. Hot water shall be supplied at a minimum temperature of 100 degrees Fahrenheit.

C. After completion of use, connections and fittings shall be removed without damage or alteration to existing water piping and equipment.

1.03 ELECTRICAL SERVICE

A. Power is to be provided by the owner. The contractor is responsible for connection of power panels and providing electricity to the work areas. Electricity to be provided at the site will comply with applicable NEMA, NEC and UL standards and governing state and local regulations for materials and layout of temporary electric service.

B. Ground Fault Protection: Provide receptacle outlets equipped with ground fault circuit interrupters (GFCI), reset button and pilot light, for plug-in connection of power tools and equipment. GFCI's shall be located outside the containment area. Powered equipment shall be connected to a GFCI.

C. Provide a weatherproof, grounded temporary electric power service and distribution system of sufficient size, capacity and power characteristics to accommodate performance of work during the abatement period.

D. Install temporary lighting adequate to provide sufficient illumination for safe work and traffic conditions in every area of work.

1.04 FIRST AID

A. A minimum of one first aid kit shall be located in the clean room. Additional first aid kits as the contractor feels is adequate or is required by law shall be located throughout the work area.

1.05 FIRE EXTINGUISHERS

A. Comply with the applicable recommendations of National Fire Protection Agency (NFPA) Standard 10 - "Standard for Portable Fire Extinguishers." Locate fire extinguishers where they are most convenient and effective for their intended purpose, but provide not less than one extinguisher in each work area equipment room and one in the clean room of the personnel decontamination unit.

1.06 TOILET FACILITIES

A. The abatement contractor will need to provide temporary toilet facilities.

1.07 PARKING

A. Vehicles may be parked in a location designated by owner.

1.08 SECURITY

A. The contractor is responsible for constructing and maintaining secure containment areas including the entry/exit areas. The regulated area shall be restricted to authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, state representatives, and any other designated individuals. The contractor shall establish a list of authorized personnel prior to job start and post this list in the clean room of the decontamination facility. Abatement locations will be appropriately identified utilizing warning signs as required by OSHA and city, state, and Federal regulations. The contractor is responsible for creating and maintaining a secure work area during the entire project.

B. The contractor shall maintain a logbook in the clean room area of the decontamination system. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

C. Access to the regulated area shall be through a single decontamination system. Other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock that shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall <u>not</u> be locked from the inside; however, they shall be sealed with polyethylene sheeting and tape until needed.

SECTION 01526

WORK AREA PREPARATION

1.01 GENERAL

A. Before work begins in an area, a decontamination unit must be in operation as outlined in Section 01563.

B. Decontamination units shall be placed in areas designated by in advance and approved by the owner.

C. The contractor shall set up a work area. Asbestos caution tape shall be placed approximately ten feet around the area where debris piles or floor tile will be removed.

D. Temporary facilities shall be addressed as outlined in Section 01503.

E. The contractor shall set up work areas and decontamination units as described. Variations must be approved by ECS. The decontamination units shall consist of a change room, shower room and equipment room as described in Section 01563.

F. Post OSHA DANGER signs meeting the specifications of OSHA 29 CFR 1926.1101 at any location and approaches to the regulated area where airborne concentrations of asbestos may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from the regulated area to permit any personnel to real the sign and take the necessary measures to avoid exposure.

SECTION 01560

WORKER PROTECTION

1.01 GENERAL

A. Provide worker protection as required by OSHA, state and local standards applicable to the work. Contractor is solely responsible for enforcing worker protection requirements at least equal to those specified in this Section.

B. Each time the work area is entered the contractor shall require all persons to remove street clothes in the changing room of the personnel decontamination unit and put on new disposable coverall, new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.

C. Workers shall not eat, drink, smoke, chew gum or chew tobacco in the work area, the equipment room, the load out area, or the clean room.

D. Lighters and matches are not allowed in the work area, the equipment room, the load out area, or the clean room.

1.02 WORKER TRAINING

A. Train workers in accordance with 29 CFR 1926 and North Carolina state regulations regarding the dangers inherent in handling asbestos, breathing asbestos dust, proper work procedures and personal and area protective measures.

B. Workers shall keep approved and up-to-date NCDNR badges on site during the abatement.

1.03 MEDICAL EXAMINATIONS

A. Provide medical examinations for workers. Examination shall as a minimum meet OSHA requirements as set forth in 29 CFR 1926.

1.04 PROTECTIVE CLOTHING

A. Provide disposable full-body coveralls and disposable head covers, and require that they be worn by workers in the work area. Provide a sufficient number for required changes, for workers in the work area.

B. Boots: Provide work boots with non-skid soles and, where required by OSHA, foot protection for workers.

C. Gloves: Provide work gloves to workers and require that they be worn at the appropriate times. Do not remove gloves from work area. Dispose of work gloves as asbestos-contaminated waste at the completion of the project.

1.05 ADDITIONAL PROTECTIVE EQUIPMENT

A. Appropriate respirators, disposable coveralls, head covers and footwear covers shall be provided by the contractor for the owner, ECS, and other authorized representatives who may inspect the job site.

1.06 DECONTAMINATION PROCEDURES

A. Require that workers use the following decontamination procedure as a minimum requirement whenever leaving the work area:

1. Remove disposable coveralls, disposable head covers, and disposable footwear covers or boots in the equipment room.

2. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator to avoid asbestos fibers while showering. The following procedure is required as a minimum:

   a. Thoroughly wet body including hair and face.

   b. With respirator still in place thoroughly wash body, hair, respirator face piece, and exterior parts of the respirator.

   c. Take a deep breath, hold it and/or exhale slowly, completely wet hair, face and respirator. While still holding breath, remove respirator and hold it away from face before starting to breathe.

   d. Carefully wash face piece of respirator inside and out.

   e. Shower completely with soap and water; rinse thoroughly.

   f. Rinse shower room walls and floor prior to exit.

   g. Proceed from shower to changing (clean) room and change into street clothes or new disposable work items.

   h. After showering, each employee shall inspect, clean and repair his respirator as needed. The respirator shall be dried, placed in a suitable storage bag and properly stored.

SECTION 01562

RESPIRATORY PROTECTION

1.01 DESCRIPTION OF WORK

A. Instruct and train each worker involved in asbestos abatement in proper respirator use and require that each worker always wear a respirator, properly fitted on the face, in the work area from the start of any operation that may cause airborne asbestos fibers until the work area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the workplace or as required for other toxic or oxygen-deficient situations encountered.

1.02 GENERAL

A. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and Mine Safety and Health Administration (MSHA) and suitable for the asbestos exposure level in the work areas according to OSHA Standard 29 CFR 1926.1101 and other possible contaminants employees might be exposed to during the project.

B. Provide respiratory protection from the time the first operation involved in the project requires contact with asbestos-containing materials (including construction of decontamination units, construction of airtight barriers/barricades, and placing of plastic sheeting on walls) until acceptance of final air clearance test results by the air monitor.

C. The minimum respiratory protection for the project during gross removal shall be a half face respirator in good condition.

D. Respirator fit testing shall be performed as a minimum at the beginning of the project, at any change in respiratory protection equipment, and at any time during the project if requested by the employee or SAM. Fit testing is to be performed by one of the methods listed in the 29 CFR 1926.1101, Appendix C.

E. Do not allow the use of single-use, disposable or quarter-face respirators for any purpose.

SECTION 01563

DECONTAMINATION UNITS

1.03 DESCRIPTION OF WORK

A. Provide separate personnel and equipment/loadout decontamination facilities. Require that the personnel decontamination unit be the only means of ingress and egress for the work area. Require that materials exit the work area through the equipment/loadout decontamination unit. Contractor shall comply with 29 CFR 1926.1101, specifically paragraph (j) hygiene facilities and practices for employees.

1.04 GENERAL

A. Personnel Decontamination Unit

1. Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, changing room, shower room, and equipment room. Each shall be separated by a minimum of three curtain doorways. Require all persons without exception to pass through this decontamination unit for entry into and exiting from the work area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit.

2. Provide temporary lighting within decontamination units as necessary to reach an adequate lighting level.

3. Maintain floor of changing room dry and clean at all times. Do not allow the overflow water from the shower to escape the shower room.

4. Damp wipe all surfaces twice after each shift change with a disinfectant solution.

5. Provide hot and cold water, drainage and standard fixtures including an elevated shower head as necessary for a complete and operable shower. A water hose and bucket is not an acceptable shower.

6. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the work area.

7. Pump shower waste water to drain. Provide and utilize, at all times, 20 micron and 5 micron waste water filters in line to drain. Change filters daily or more often if necessary.

8. If the decontamination area is located within an area containing friable asbestos on overhead ceilings, ducts, or piping provide the area with a

minimum 3/8 inch plywood "ceiling" with two layers of polyethylene sheeting covering the top of the "ceiling."

9. Visual Barrier: Where the decontamination area is immediately adjacent to and within view of occupied areas, provide a visual barrier of opaque plastic sheeting so that worker privacy is maintained and work procedures are not visible to building occupants. Where the area adjacent to the decontamination area is accessible to the public, construct a solid barrier on the public side of the sheeting to protect the sheeting. Construct barrier with wood or metal studs, maximum 16 inches on center, covered with minimum 3/8 inch plywood.

10. At least one centralized decontamination unit should be set up remotely at all times at the site for workers who are operating heavy machinery or performing asbestos abatement activities at the mill site in accordance with this section.

B. Decontamination Unit Contamination:

1. If the air quality in the decontamination unit exceeds 0.01 fibers per cubic centimeter, analyzed by PCM, or its integrity is diminished through use as determined by the air monitor, no employee shall use the unit until corrective steps are taken and approved by the air monitor.

C. Decontamination of Salvaged Materials

1. Materials that are to be salvaged from the debris piles will need to be divided into two piles: “Contaminated” debris and “Non-Contaminated” debris; these piles will have specific designated areas on the site. The ECS Certified Asbestos Building Inspector on-site will make visual determinations as to whether the debris piles are considered contaminated before being segregated and placed into “Contaminated” or “Non-Contaminated” piles. Brick with black mastics will be assumed to be positive if samples are not collected to prove otherwise. Materials uncovered and not sampled in our initial assessment will be assumed to be positive if samples are not collected to prove otherwise.

a. “Non-Contaminated” debris will be placed into waste load-out dumpsters/boxes and hauled off-site or stacked in a designated staging area until materials can be removed from the property.

b. “Contaminated” debris will be placed in a designated staging area which will serve as the Material Decontamination Unit (MDU). Materials will be power washed or sprayed with amended water; materials will be allowed to dry and a visual clearance will be performed by the Building Inspector on all materials to pass through the MDU. Materials that pass a visual inspection will be allowed to be placed in the “Non-Contaminated” debris pile. Materials which do not pass a visual inspection shall be re-cleaned or disposed of as ACM.

D. Decontamination of Heavy Equipment and Filters

1. The asbestos abatement contractor will meet the requirements listed under the OSHA standard 29 CFR 1926.1101(g) for Class I removal of regulated of asbestos-containing material that asbestos-containing material may not be removed in a substantially intact state. The minimum requirements for abatement will be:

    a. Filters be removed from the equipment and disposed of as ACM.

    b. Equipment should be pressure washed inside and out.

    c. A burm should be constructed around the heavy equipment so that the run-off from the pressure washing can be captured, filtered, and properly disposed of.

    d. Burm material should be disposed of as ACM.

    e. The equipment should be wiped down to complete any fine cleaning of the equipment.

    f. All loose asbestos material removed in the work area shall be adequately wet, bagged, sealed and properly labeled before personnel breaks or end of shift.

    g. All plastic sheeting, tape, cleaning materials, clothing and all other disposable materials or items used in the work area shall be packed into sealable plastic bags (6 mil minimum) and treated as contaminated material.

    h. All materials shall be double-bagged.

    i. All excess water (except shower water) shall be combined with removed materials or other absorptive material and properly disposed of per EPA regulations. The asbestos abatement contractor shall not place water in storm drains, onto lawns or into ditches, creeks, streams, rivers or oceans.

    j. The asbestos abatement contractor will provide a personnel decontamination unit. The Asbestos abatement contractor will comply with 29 CFR 1926.1101, specifically paragraph (j) Hygiene facilities and practices for employees.

    k. Abatement workers will wear protective clothing and respiratory protection in accordance with OSHA regulations during the abatement. The minimum respiratory protection during gross removal of friable materials will be a powered air purifying half-faced respirator.

    l. Any waste generated should be disposed of as ACM.

SECTION 01711

PROJECT DECONTAMINATION

1.01 GENERAL

A. Carry out a first cleaning of the surfaces of the work area including plastic sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping and/or a HEPA filter vacuum until there is no visible debris from removed materials or residue on plastic sheeting or other surfaces. Do not perform dry-dusting or dry-sweeping.

B. Equipment shall be cleaned and contaminated materials removed.

C. After cleaning the work area inside of the office building at the mill, the contractor shall allow the area to thoroughly dry and then wet-clean and/or HEPA vacuum surfaces in the work area again.

D. At the completion of the cleaning operation, the contractor's supervisor shall perform a complete visual inspection of the work area to ensure that the work area is dust and fiber-free. If the supervisor believes he is ready for a final project decontamination inspection, he shall notify the air monitor.

E. Visual inspection for acceptance shall be performed after the areas are dry.

F. If requested, the air monitor shall perform the final visual inspection; discrepancies found shall be documented in the form of a punch list.

G. If the air monitor finds that the work area has not been adequately decontaminated visually, cleaning shall be repeated at the contractor’s expense, including additional air monitoring fees, until the work area is in compliance.

H. After the work area is found to be in compliance, entrances and exits, decontamination units shall be unsealed and the plastic sheeting, tape and other trash and debris shall be disposed of in sealable plastic bags 6-mil (minimum) and disposed of as outlined in Section 02084.

I. If the client uses an air monitor, after the air monitor has approved the final project decontamination and the contractor has completed the abatement activities, the air monitor shall perform the project final inspection as outlined in the general conditions.

1.02 GENERAL – DEBRIS PILE REMOVAL

A. For large equipment decontamination, such as bulldozers and back-hoe’s, a staging area shall be set up on the subject site for wash down and proper decontamination of the machinery. Each large machine will need to have a visual inspection by ECS prior to exiting the staging area. Waste water from the staging

area will need to be captured and filtered for asbestos fibers prior to discharge into the sanitary sewer.

B. A loading area will need to be set up for large machinery up which will not require decontamination.

SECTION 01714

WORK AREA CLEARANCE

1.01 GENERAL

A. Notification and scheduling of final inspections during the project is the responsibility of the contractor.

B. A visual clearance shall be required for debris pile sorting and removal throughout the abatement project as well as of the floor tiles and window glazing of the office building (which is open to the outside).

C. Visual clearances shall be performed by a licensed asbestos inspector and shall be performed on an as-needed basis.

SECTION 02080

ASBESTOS REMOVAL

1.01 GENERAL

Asbestos removal will be performed in areas inside of the partially un-demolished buildings. Asbestos removal will also be performed of demolished building materials within the debris piles.

Black Mastic on Brick – Black roofing materials are scattered throughout the debris piles. It will be necessary to separate ACM from non-ACM which can be salvaged or recycled from the debris piles. An ECS inspector or abatement contractor supervisor shall make determinations of materials which can be de-contaminated or assumed to be asbestos containing during the segregation process. Materials will be assumed to be positive if decontamination cannot be accomplished. Miscellaneous debris and building materials are to be treated as ACM and are to be handled, bagged or placed in lined roll-off boxes and removed as such if decontamination cannot be achieved.

All porous items which cannot be cleaned must be removed and disposed of as asbestos waste. For porous and non-porous items, the abatement contactor may select to one (1) bag/wrap, remove and dispose of as asbestos-contaminated waste or two (2) set up a contents decontamination chamber for cleaning all items prior to removal from the subject site. If the abatement contactor selects to clean building materials in the debris piles, they must be staged and visually inspected by ECS prior to removal from the building.

The site is located in a residential area and is accessible and open to the public. It will be necessary for the abatement contactor to erect privacy fencing (or similar) surrounding the Work area to keep the public out of the asbestos abatement area during debris removal.

When materials within the debris piles are being segregated, the materials will need to be adequately wetted with water in order to minimize the potential release of asbestos fibers. Water used in the wetting process will need to be captured and properly filtered for asbestos fibers prior to discharge into the sanitary sewer.

Floor Tile and Mastic – The tan asbestos containing floor tile (bottom layer) and associated black mastic located on the ground floor of the multi-story building is scheduled for removal. If tan floor tile and black mastic is identified in inaccessible locations and that was not sampled by ECS, the abatement contactor is to remove floor tile and mastic in conjunction with other asbestos materials identified in the building.

A. Prior to starting asbestos removal, the contractor's equipment, work area and decontamination units will be inspected and approved by the air monitor.

B. Loose asbestos material removed in the work area shall be adequately wet with a surfactant, bagged, sealed and labeled properly before personnel breaks or end of shift. The surfactant to be utilized with asbestos-containing materials shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid soap

to five (5) gallons of water. An asbestos removal encapsulant may be utilized as a substitute for surfactant use to control airborne fibers.

C. Plastic sheeting, tape, cleaning material, clothing and other disposable material or items used in the work area shall be packed into sealable plastic bags (6-mil minimum) and treated as contaminated material.

D. Material shall be double-bagged in 6-mil (minimum) polyethylene bags.

E. Excess water (except shower water) shall be combined with removed material or other absorptive material and properly disposed of as per EPA regulations. Contractor shall not place water in storm drains, onto lawns, or into ditches, creeks, streams, rivers or oceans.

F. If the Owner or their field representative presents a written Stop Asbestos Removal Order, the Abatement Contractor/Personnel shall immediately stop asbestos removal and adequately wet any exposed ACM. The Contractor shall not resume asbestos removal activity until authorized to do so by Owner. A stop asbestos removal order may be issued at any time the Owner determines abatement conditions/activities are not within specification requirements. Work stoppage will continue until conditions have been corrected to the satisfaction of Owner. Standby time and costs for corrective actions will be borne by the Abatement Contractor, including the industrial hygienist's time. The occurrence of any of the following events shall be reported immediately by the Abatement Contractor in writing to the Owner and shall require the Contractor to immediately stop asbestos removal activities and initiate fiber reduction activities:

1. =/> 0.01 f/cc outside regulated area
2. Breach/break in regulated area barrier(s)
3. Serious injury/death within regulated area
4. Fire/safety emergency within the regulated area
5. Respiratory protection system failure
6. Power failure

1.02 SCHEDULE

A. The start date is estimated for April/May 2018 but the exact start date for abatement is yet to be determined.

1.03 SCOPE OF WORK

A. The ACM to be removed includes the ACM identified in the Summary of Asbestos-Containing Materials in the first section of this specification. The quantities and locations of ACM as indicated and the extent of the work are estimates which are limited by the physical constraints of the buildings.

Accordingly, minor variations (+/- 10%) in quantities of ACM within the regulated areas are considered as having no impact on contract price and time requirements of this contract. Where additional work is required beyond the above variation, the contract time and price will be adjusted under provisions of the applicable clause in the contract. Additional or reduced abatement work beyond the variations will be basis for adjusting the contract price. Multiple layers of floor tile will be encountered in work areas (including beneath glued carpeting) and should be considered when bidding this work.

1.04 ASBESTOS REMOVAL – Friable Materials

A. Flooring Materials

1. Establish a control area as outlined within Section 10-01526 and 10-01563 of this specification.

2. Remove all layers of flooring (including carpeting). Keep flooring adequately wet to avoid visible emissions and airborne asbestos fibers.

3. The flooring materials shall be disposed of as ACM. Removal of mastic with solvents and buffing machines is considered a regulated or friable removal according to NCHHCU.

4. When removing asbestos-containing mastic from the floor surface, the Contractor shall use a product that meets the following criteria:

    a. The product shall not create a hazardous waste as a byproduct.

    b. The product shall be "low to no odor."

    c. The product shall not contain any carcinogenic or chlorinated hydrocarbons.

5. Place all waste material into properly labeled 6 mil polyethylene bags and seal with duct tape. Seal clean bag within a clean contaminant bag.

6. When the Contractor is collecting the asbestos solution, the Contractor shall add cat litter, oil-sorb or equivalent so that no free standing liquid will be left in the asbestos bag.

7. Work areas will be cleared visually by an ECS asbestos inspector.

SECTION 02084

DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIAL

1.01 GENERAL

A. Asbestos materials and miscellaneous contaminated debris shall be properly sealed and protected, and the loadout vehicle/dumpster shall be locked and lined with poly, while located on the facility site and then transported to a pre-designated disposal site in accordance with 40 CFR 61.150 and DOT 49 CFR Parts 100-399.

B. Location of the loadout vehicle and dumpsters provided by the abatement contractor shall be prearranged by the owner and ECS.

C. An enclosed vehicle will be used to haul waste material to the disposal site. No rental vehicles or trailers shall be used. Vehicle selection, vehicle covers and work practices shall assure that no asbestos becomes airborne during the loading, transport and unloading activity, and that material is placed in the waste site without breaking any seals.

D. Waste disposal polyethylene bags (6-mil minimum) and containers, non-porous (steel/plastic) drums or equivalent, with labels, appropriate for storing asbestos waste during transportation to the disposal site shall be used. In addition to the OSHA labeling requirements, containers shall be labeled with the name of the waste generator and the location at which the waste was generated.

E. The contractor shall transport the containers and bags of waste material to the approved waste disposal site. The sealed plastic bags shall be placed into the burial site unless the bags have been broken or damaged. Upon the landfill's approval damaged bags shall be left in the non-porous containers and the entire contaminated package shall be buried. Uncontaminated containers may be reused.

F. Workers loading and unloading the asbestos will wear respirators and disposable clothing when handling material. Asbestos warning signs shall be posted during loading and unloading of asbestos waste.

G. The contractor shall use the HHCU’s Waste Shipment Record for disposal records as per 40 CFR 61.150 and distribute a copy of all waste shipment records to ECS and HHCU after the completion of the project.

APPENDIX A

PRE-WORK ASBESTOS INSPECTION CHECKLIST

Name of Facility: _____

Project Name: _____

Project ID Number: _____

Date of Inspection:_____ Pass: _____ Fail:_____

			YES	NO
A.	**DOCUMENTS**			
	1)	Asbestos Removal Permit/NESHAP Notification	_____	_____
	2)	Accreditation Documents for Workers & Supervisors	_____	_____
	3)	Asbestos Plans and Specifications	_____	_____
	4)	Air Monitoring Data	_____	_____
	5)	Waste Shipment Records	_____	_____
	6)	Sign-in Sheets and Bound Book for Comments	_____	_____
	7)	Calibration Record for Grade “D” Air	_____	_____
	8)	Items listed in Section 01043 of Specification	_____	_____
B.	**PPE SUPPLIES**			
	1)	Tyvek Clothing	_____	_____
	2)	Rubber Boots	_____	_____
	3)	Respirators with HEPA Filters	_____	_____
C.	**CLEAN ROOM**			
	1)	Entry Curtains	_____	_____
	2)	Emergency Phone Numbers Posted	_____	_____
	3)	First Aid Kit	_____	_____
	4)	Asbestos Signs	_____	_____
	5)	Decontamination Procedures Posted	_____	_____
	6)	Fire Extinguisher	_____	_____
D.	**SHOWER ROOM**			
	1)	Polyethylene Curtains	_____	_____
	2)	Hot/Cold Water & Operational	_____	_____
	3)	Soap & Towels	_____	_____
	4)	Waste Water Filter Pump Operational	_____	_____
	5)	Extra Five Micron Size Filters	_____	_____

6)	Filtered Waste Water to Sanitary Sewer	_____	_____

E.	**WORK AREA**	**YES**	**NO**
1)	Removable Items Out of Area	_____	_____
2)	Non-removable Items Protected	_____	_____
3)	Critical Barriers Installed	_____	_____
4)	Polyethylene Curtains	_____	_____
5)	Polyethylene on Walls/Floors as Specified	_____	_____
6)	HVAC Off	_____	_____
7)	Air Filtration Devices in Place and Operational	_____	_____
8)	Air Exhausted to Outside	_____	_____
9)	Electricity Locked and Tagged Out	_____	_____
10)	Temporary Power Installed with GFCI	_____	_____
11)	Fire Extinguishers	_____	_____
12)	Emergency and Fire Exits Marked	_____	_____
13)	Audible Alarms Operational	_____	_____
14)	Toilet Available	_____	_____

F.	**EQUIPMENT**		
1)	Safety Equipment	_____	_____
2)	HEPA Vacuums	_____	_____
3)	Waste Disposal Bags	_____	_____
4)	Airless Sprayer with Water Source	_____	_____
5)	Cleaning Equipment	_____	_____
6)	Glove Bags	_____	_____
7)	Emergency Power Generator (if required)	_____	_____
8)	Temporary Lighting	_____	_____

G.	**OTHER**		
1)	_____	_____	_____
2)	_____	_____	_____
3)	_____	_____	_____
4)	_____	_____	_____

_____ _____

Asbestos Design Consultant *Date*

_____ _____

Asbestos Contractor's Representative *Date*

APPENDIX B

SUPPLEMENTAL INFORMATION

LIMITED ASBESTOS AND LEAD-BASED PAINT ASSESSMENT



FORMER DREXEL FACILITY

BLUE RIDGE AND CARSON STREETS
MARION, NORTH CAROLINA 28752

ECS PROJECT NO. 49:3978 B

FOR

CITY OF MARION

JULY 7, 2017

July 7, 2017

Ms. Heather Cotton
City of Marion
194 North Main Street
Marion, South Carolina 28752
hcotton@marionnc.org

ECS Project No. 49:3978 B

Reference: Limited Asbestos and Lead-Based Paint Assessment, Former Drexel Facility, Blue Ridge and Carson Streets, Marion, North Carolina

Dear Ms. Cotton:

ECS Southeast, LLP (ECS) is pleased to provide City of Marion with the results of the above referenced Limited Asbestos and Lead-Based Paint Assessment performed at Former Drexel Facility located at Blue Ridge and Carson Streets in Marion, North Carolina. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 49:5347-PR and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide City of Marion with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Southeast, LLP

Thomas Barnes
Assistant Staff Project Manager
twbarnes@ecslimited.com
864-326-4786

Lindsey Lucas, REM
Environmental Principal
LLucas1@ecslimited.com
864-987-1810

EXECUTIVE SUMMARY

The subject property consists of multiple Former Mill buildings in various states of demolition on a parcel of land totaling 15.29 acres and is located within the Marion city limits. ECS understands the existing structures and debris piles will potentially be disturbed as part of redevelopment/demolitioin activities once the City of Marion acquires the property. At the time of our assessment the subject buildings were either vacant, demolished, or partially demolished.

The purpose of the survey was to determine if asbestos-containing materials (ACMs) or Lead-Based Paint are present on the subject property. The survey was performed within interior and exterior areas of the subject buildings as well as the debris piles.

Based on the laboratory analysis of the bulk samples collected during the assessment, the following materials were reported to contain asbestos:

- Black Mastics on Brick and CMU Block
- Cementitious Panels
- 12" Grey Floor Tile and Black Mastic in the Office
- White Window Glazing in the Office
- Bags of TSI and Possibly other Asbestos Containing Materials Piled in the Office (Assumed Positive)

The lead-based paint survey was performed by an EPA licensed Lead Inspector. Painted and/or glazed surfaces were assessed for lead content using a Direct-Read X-Ray Fluorescence (XRF) Spectrometer. Lead-Based Paint/Glaze was identified on the following building materials/components:

- White Paint on Wood of the Fire Protection Shack outside the Office
- Cream Paint on Trim Wood in Machine Building

Recommendations regarding the removal and disposal of the ACMs and LBPs identified by ECS can be found in Section 5.0 of this report.

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1.0 SITE DESCRIPTION

ECS visited the property on June 21, 2017. The subject property consists of multiple buildings in various states of demolition on a parcel of land totaling 15.29 acres and is located within the Marion city limits. ECS understands the existing structures and debris piles will potentially be disturbed as part of redevelopment/demolitioin activities once the City of Marion acquires the property.

2.0 PURPOSE

The purpose of the Limited Asbestos and Lead-Based Paint Assessment was to identify asbestos-containing materials (ACMs), and Lead-Based Paint (LBP) which may require special handling and/or disposal if removed during construction activities. The identification of ACMs and LBP may require trained labor, regulated work practices, and special disposal. The identification of LBP or other lead hazards may require disclosure to contractors and monitoring of lead exposure.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs), and Lead-Based Paint (LBP).

3.1 Asbestos-Containing Materials

For assessment purposes the EPA NESHAP requirements for asbestos assessments prior to renovation or demolition were recommended for this assessment. Renovation or demolition is defined under NESHAP as the removal of a load-bearing structure or member. On the basis of requirements under NESHAP and North Carolina Asbestos Hazard Management Program (AHMP), administered by Health Hazards Control Unit (HHCU), for demolition activities, ECS conducted a limited assessment for potential asbestos-containing building materials (ACBM). The ACBM assessment was limited in that ECS did not conduct demolition such as jack/sledge hammering or cutting through walls, ceilings, floors, or structural members to expose potentially concealed materials.

The tasks associated with the proposed asbestos assessment were:

1. ECS began by interviewing the site contacts to learn available information regarding the past history of the site, including ages of materials, past renovations, maintenance, etc.

2. ECS set up a date with the site access personnel to perform the assessment. Once the date was solidified, the Owner(s) granted ECS unrestricted access to the property.

3. ECS entered the buildings and began identifying the homogenous areas. Homogeneous areas are defined as sections of building materials appearing to have been installed in the same general time period, and are of uniform color and texture. Once homogeneous areas were identified, we collected samples of the materials suspected to contain asbestos in general accordance with AHERA, NESHAP and State of North Carolina regulations. Specifically, samples were collected from random locations of each homogeneous area. The number of samples collected from each homogeneous area varied by material type.

4. The number of samples collected were determined using the following criteria:

- Thermal Insulation Materials (piping, breeching, boiler insulation, etc.) - A minimum of three (3) samples were collected.
- Surfacing Materials (plaster, fireproofing, etc.) – A minimum of seven (7) samples were collected for areas greater than 5,000 square feet; five (5) samples collected for areas greater than 1,000 square feet, but less than 5,000 square feet; and three (3) samples collected for areas less than 1,000 square feet.
- Miscellaneous Materials (flooring, adhesives, roofing, wallboard, etc.) – A minimum of two (2) samples were required.

5. Samples collected at the site were delivered to a laboratory that has been accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for testing by polarized light microscopy (PLM). A chain of custody was maintained with the samples.

6. The assessment did not include destructive measures to look in chases, above fixed ceilings, behind permanent or attached fixtures, behind walls, etc. Materials located below carpeting corners, behind removable exterior siding and behind removable fixtures were sampled if accessible during the time of the assessment. Suspect materials observed in inaccessible areas were assumed positive.

7. If one sample of a material from a homogeneous area is reported to contain greater than 1% asbestos, then by EPA definition, it is characterized as asbestos-containing material.

The destructive asbestos survey was performed by Thomas W. Barnes (NC Asbestos Inspector No. 12983) and James Bevers (NC Asbestos Inspector No. 12914) on June 21, 2017. Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM. SAI participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 200664-0.

Unidentified suspect ACMs may be located in these and/or other inaccessible areas; concealed materials in debris piles should be evaluated at the time of discovery.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

3.2 Lead in Paint and Surface Coatings

The Lead-Based Paint (LBP) survey was performed by an EPA licensed Lead Inspector using a X-Ray Fluorescence (XRF) Spectrometer to identify lead concentrations in painted and glazed surfaces. In addition to the XRF screening, ECS conducted paint chip sampling from readily accessible materials on the site. The paint chips wee placed in sealed plastic containers and submitted to SAI in Greensboro, North Carolina for Analysis.

The survey was conducted utilizing the U.S. EPA definition of LBP. Under this definition, painted surfaces which contain lead in concentrations equal to or greater than 1.0 milligrams per square centimeter ($\geq$ 1.0 mg/cm^2) or equal t or greater than 0.5% (5000 ppm) total lead by weight are classified as coated with LBP. Paints with concentrations of lead detectable by the XRF are considered lead-containing paints. Additionally, fixtures or components that are manufactured with a factory applied glazing (i.e., sinks, toilets, ceramic tiles, etc.) are tested as these factory-applied finishes often contain lead. Activities which disturb lead-containing paints and glazing (while not lead-based paints by the U.S. EPA definition) are regulated by OSHA (29 CFR 1926.62).

Because the current or proposed use of the property is not residential or child-occupied, the scope of the LBP survey was not conducted in accordance with HUD Chapter 7 requirements. This representative survey included taking readings from walls, windows, doors, and miscellaneous components. Walls are listed by letter with wall “A” being the entrance of the subject building, proceeding clockwise to “B, C, D”, etc.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

In total, 47 bulk samples from 23 homogeneous areas were submitted to the laboratory of which 79 layers were analyzed. An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations. A complete list of the sampled materials submitted for analysis is located in the Appendix.

SAI submitted a signed final laboratory report to ECS on June 29, 2017. Ten (10) of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. These materials are summarized below. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

- Black Mastics on Brick and CMU Block
- Cementitious Panels
- 12" Grey Floor Tile and Black Mastic in the Office
- White Window Glazing in the Office
- Bags of TSI and Possibly other Asbestos Containing Materials Piled in the Office (Assumed Positive)

Summary of Asbestos-Containing Materials Identified

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
02-01 02-02	Pile #2	Black Mastic on Brick	4% Chrysotile	II	3,000 SF
03-01 03-02	Pile #1	Black Mastic on Brick	10% Chrysotile	II	500 SF
04-01 04-02	Pile #1	Black Mastic on Brick	10% Chrysotile	II	500 SF
05-01 05-02	Pile #3	Cementitious Panel	15% Chrysotile	I	100 SF
07-01 07-02	Pile #4	Black Mastic on Brick	15% Chrysotile	II	750 SF
13-01 13-02	Office	12" Blue Floor Tile, 12" Grey Floor Tile, Black Mastic.	Blue Tile and Yellow Mastic NAD, Grey Tile 5% Chrysotile, Black Mastic 6% Chrysotile	I	800 SF
18-01 18-02	Office	White Window Glazing	2% Chrysotile	II	200 LF
21-01 21-02	Pile #10	Black Mastic on Brick	6% Chrysotile	II	400 SF

Sample ID	Location	Material Description	Analytical Results	Category	Estimated Quantity
22-01 22-02	Pile #10	Cementitious Panel	25% Chrysotile	I	100 SF

In addition to the materials listed in the above table, there were approximately 60 goose necked, asbestos labeled bags stacked in the bathroom of the office. a few of the bags had been opened and Air-Cell TSI was observed.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, under debris piles, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

4.3 Lead in Paint and Surface Coatings

Paint and surface coatings which contain detectable concentrations of lead considered “lead-containing paints”. Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead containing. Work performed which may disturb lead-containing paint is regulated under OSHA as referenced under 29 CFR 1926.62. A total of [164] readings were collected during the survey, including calibration readings. Paint and other surface coatings which are defined by applicable regulation as lead-based paints are summarized in the table below and photographs of lead-based paint identified are located in the Appendix.

Summary of XRF Lead-Based Paint Results

Location	Color	Substrate	Component
Concrete Slab	Yellow Caution Paint	Concrete	Slab
Door of Fire Protection Shack	White Exterior Paint	Wood	Door
Doorway Trim on Machine Building	Cream Yellow	Wood	Doorway Trim

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

ECS recommends where a material type has been identified as asbestos containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

Based on our understanding of the purpose of the Limited Asbestos and Lead-Based Paint Assessment, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends where a material type has been identified as asbestos containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos. Asbestos containing materials identified should be removed prior to disturbance.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may also be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within inaccessible areas that include, but are not limited to, [sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, vapor barriers, pipe trenches and other subsurface utilities, etc.] If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

5.2 Lead in Paint and Surface Coatings

Based on the findings of this report, detectable concentrations of lead were identified on some paints and surface coatings.

The presence of lead is a concern primarily when conditions exist where it may inhaled or ingested. Regardless of the analytical results of a material, all painted and/or glazed surfaces may still contain concentrations of lead in the paint, which when disturbed, may generate lead dust greater than the Permissible Exposure Limit (PEL) of 50 micrograms per cubic millimeter (ug/m3) as an 8-hour Time Weighted Average (TWA) established by the OSHA "Lead Exposure in Construction Rule (29 CFR 1926.62)."

The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the Permissible Exposure Limit (PEL) of 50 micrograms per cubic millimeter ($\mu g/m^3$) as an 8-hour Time Weighted Average (TWA). Under OSHA requirements, the contractor performing renovation work will be required to conduct this monitoring and follow applicable requirements under 29 CFR 1926.62 if disturbing lead-containing paint.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries. During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Figures



NORTH

LEGEND	DRAWING PROVIDED BY GOOGLE EARTH	
Negative ACM Sample Location Positive ACM Sample Location		

FIGURE 1
ASBESTOS SAMPLE LOCATIONS

FORMER DREXEL FACILITY
BLUE RIDGE AND CARSON STREETS
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT NO. 49-3978 B

Appendix II: Site Photographs



1 - Typical view of debris and remaining portions of structures located on the subject site



2 - Typical view of debris and remaining portions of structures located on the subject site



3 - Typical view of debris and remaining portions of structures located on the subject site



4 - Typical view of debris and remaining portions of structures located on the subject site



5 - Typical view of debris and remaining portions of structures located on the subject site



6 - Typical view of debris and remaining portions of structures located on the subject site



7 - View of remaining steel structure located on subject site



8 - View of the interior of the remaining steel structure located on the subject site



9 - View of interior of office structure located on the subject site



10 - View of interior of office structure located on the subject site



11 - View of asbestos bags (contents assumed positive for ACM) located on the interior of the office on the subject site



12 - View of asbestos bags (contents assumed positive for ACM) located on the interior of the



13 - View of air cell TSI (assumed positive for ACM) located in bags stored in the interior of the office located on the subject site



14 - View of grey 12" floor tile (negative for ACM) located in the front space of the office on the subject site



15 - View of black mastic on brick (positive for ACM) located in the debris piles located on the subject site



16 - View of black mastic on brick (positive for ACM) located in the debris piles located on the subject site



17 - View of black mastic on brick (positive for ACM) located in the debris piles located on the subject site



18 - View of 12" blue tile and yellow mastic (negative for ACM) and underlying 12" grey tile and black mastic (positive for ACM)



19 - View of built-up-roofing (negative for ACM) located in various debris piles on the subject site



20 - View of built-up-roofing (negative for ACM) located in various debris piles on the subject site



21 - View of roofing tar on wood (negative for ACM) located on various debris piles on the subject site



22 - View of cementitious panel (positive for ACM) located in various debris piles on the subject site



23 - View of exterior stucco (negative for ACM) located in debris pile #8 on the subject site



24 - View of exterior white paint (positive for LBP) located on the door of the fire protection shed located on the side of the office on the subject site



25 - View of cream yellow paint (positive for LBP) located on the door trim of the machine building on the subject site



26 - View of the interior of the machine building (paint on walls negative for LBP)



27 - View of yellow caution paint (positive for LBP) located on a portion of the floor slab near debris pile #2 on the subject site

Appendix III: Asbestos Bulk Sample Results

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel 49-3978-B

Lab Order ID: 1713458
Analysis ID: 1713458_PLM
Date Received: 6/23/2017
Date Reported: 6/29/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
01-01 - A *1713458PLM_1*	Roof asphalt, felt paper, foam, fiber material *tar*	None Detected		100% Other	Black Non Fibrous Homogeneous Dissolved
01-01 - B *1713458PLM_48*	Roof asphalt, felt paper, foam, fiber material *felt*	None Detected	40% Fiber Glass 20% Cellulose	40% Other	Black Fibrous Heterogeneous Dissolved
01-01 - C *1713458PLM_49*	Roof asphalt, felt paper, foam, fiber material *foam*	None Detected		100% Other	Yellow Non Fibrous Homogeneous Ashed
01-01 - D *1713458PLM_50*	Roof asphalt, felt paper, foam, fiber material *paper*	None Detected	95% Cellulose	5% Other	Tan Fibrous Homogeneous Ashed
01-02 - A *1713458PLM_2*	Roof asphalt, felt paper, foam, fiber material *tar*	None Detected		100% Other	Black Non Fibrous Homogeneous Dissolved
01-02 - B *1713458PLM_51*	Roof asphalt, felt paper, foam, fiber material *felt*	None Detected	40% Fiber Glass 20% Cellulose	40% Other	Black Fibrous Heterogeneous Dissolved
01-02 - C *1713458PLM_52*	Roof asphalt, felt paper, foam, fiber material *foam*	None Detected		100% Other	Yellow Non Fibrous Homogeneous Ashed
01-02 - D *1713458PLM_53*	Roof asphalt, felt paper, foam, fiber material *paper*	None Detected	95% Cellulose	5% Other	Tan Fibrous Homogeneous Ashed

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Megan Javonovich (89)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel 49-3978-B

Lab Order ID: 1713458
Analysis ID: 1713458_PLM
Date Received: 6/23/2017
Date Reported: 6/29/2017

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
02-01 / *1713458PLM_3*	Black mastic on brick	**4% Chrysotile**		**96% Other**	Black Non Fibrous Homogeneous Dissolved
02-02 / *1713458PLM_4*	Black mastic on brick	**Not Analyzed**			
03-01 / *1713458PLM_5*	Black mastic on brick	**10% Chrysotile**		**90% Other**	Black Non Fibrous Homogeneous Dissolved
03-02 / *1713458PLM_6*	Black mastic on brick	**Not Analyzed**			
04-01 / *1713458PLM_7*	Black mastic on brick	**10% Chrysotile**		**90% Other**	Black Non Fibrous Homogeneous Dissolved
04-02 / *1713458PLM_8*	Black mastic on brick	**Not Analyzed**			
05-01 / *1713458PLM_9*	Transite panel	**15% Chrysotile**		**85% Other**	Gray Non Fibrous Heterogeneous Crushed
05-02 / *1713458PLM_10*	Transite panel	**Not Analyzed**			

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-01 - A	12x12 grey floor tile	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
1713458PLM_11	*tile*				Dissolved
06-01 - B	12x12 grey floor tile	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_54	*mastic*				Dissolved
06-02 - A	12x12 grey floor tile	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
1713458PLM_12	*tile*				Dissolved
06-02 - B	12x12 grey floor tile	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_55	*mastic*				Dissolved
07-01	Black mastic on brick	**15% Chrysotile**	**10% Cellulose**	**75% Other**	Black Fibrous Heterogeneous
1713458PLM_13					Dissolved
07-02	Black mastic on brick	**Not Analyzed**			
1713458PLM_14					
08-01	Black mastic on wood	**None Detected**	**20% Cellulose** **10% Synthetic Fibers**	**70% Other**	Black Fibrous Heterogeneous
1713458PLM_15					Dissolved
08-02	Black mastic on wood	**None Detected**	**20% Cellulose** **10% Synthetic Fibers**	**70% Other**	Black Fibrous Heterogeneous
1713458PLM_16					Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
09-01 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_17	*tar*				Dissolved
09-01 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**30% Fiber Glass** **20% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_56	*felt*				Dissolved
09-01 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_57	*foam*				Ashed
09-01 - D	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**80% Cellulose** **10% Fiber Glass**	**10% Other**	Gray Fibrous Homogeneous
1713458PLM_58	*paper*				Ashed
09-02 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_18	*tar*				Dissolved
09-02 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**30% Fiber Glass** **20% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_59	*felt*				Dissolved
09-02 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_60	*foam*				Ashed
09-02 - D	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**80% Cellulose** **10% Fiber Glass**	**10% Other**	Gray Fibrous Homogeneous
1713458PLM_61	*paper*				Ashed

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
10-01 - A	Roof asphalt, felt paper	None Detected		80% Other 20% Quartz	Black Non Fibrous Heterogeneous
1713458PLM_19	*tar*				Dissolved
10-01 - B	Roof asphalt, felt paper	None Detected	40% Fiber Glass	50% Other 10% Quartz	Black Fibrous Heterogeneous
1713458PLM_62	*felt*				Dissolved
10-02 - A	Roof asphalt, felt paper	None Detected		80% Other 20% Quartz	Black Non Fibrous Heterogeneous
1713458PLM_20	*tar*				Dissolved
10-02 - B	Roof asphalt, felt paper	None Detected	40% Fiber Glass	50% Other 10% Quartz	Black Fibrous Heterogeneous
1713458PLM_63	*felt*				Dissolved
11-01 - A	12x12 cream floor tile, black mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1713458PLM_21	*tile*				Dissolved
11-01 - B	12x12 cream floor tile, black mastic	None Detected		100% Other	Black Non Fibrous Homogeneous
1713458PLM_64	*mastic*				Dissolved
11-02 - A	12x12 cream floor tile, black mastic	None Detected		100% Other	White Non Fibrous Homogeneous
1713458PLM_22	*tile*				Dissolved
11-02 - B	12x12 cream floor tile, black mastic	None Detected		100% Other	Black Non Fibrous Homogeneous
1713458PLM_65	*mastic*				Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
12-01 *1713458PLM_23*	2x2 fissure ceiling tile	None Detected	40% Cellulose 30% Fiber Glass	20% Perlite 10% Other	Gray Fibrous Homogeneous Ashed
12-02 *1713458PLM_24*	2x2 fissure ceiling tile	None Detected	40% Cellulose 30% Fiber Glass	20% Perlite 10% Other	Gray Fibrous Homogeneous Ashed
13-01 - A *1713458PLM_25*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *blue tile*	None Detected		100% Other	Blue Non Fibrous Homogeneous Dissolved
13-01 - B *1713458PLM_66*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *yellow mastic*	None Detected		100% Other	Yellow Non Fibrous Homogeneous Dissolved
13-01 - C *1713458PLM_67*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *grey tile*	5% Chrysotile		95% Other	Gray Non Fibrous Homogeneous Dissolved
13-01 - D *1713458PLM_68*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *black mastic*	6% Chrysotile		94% Other	Black Non Fibrous Homogeneous Dissolved
13-02 - A *1713458PLM_26*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *blue tile*	None Detected		100% Other	Blue Non Fibrous Homogeneous Dissolved
13-02 - B *1713458PLM_69*	12x12 blue floor tile, 12x12 grey floor tile, black mastic *yellow mastic*	None Detected		100% Other	Yellow Non Fibrous Homogeneous Dissolved

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13-02 - C	12x12 blue floor tile, 12x12 grey floor tile, black mastic	**Not Analyzed**			
1713458PLM_70	*grey tile*				
13-02 - D	12x12 blue floor tile, 12x12 grey floor tile, black mastic	**Not Analyzed**			
1713458PLM_71	*black mastic*				
14-01	2x4 fissure ceiling tile	**None Detected**	**40% Cellulose** **20% Fiber Glass**	**30% Perlite** **10% Other**	Gray Fibrous Homogeneous
1713458PLM_27					Ashed
14-02	2x4 fissure ceiling tile	**None Detected**	**40% Cellulose** **20% Fiber Glass**	**30% Perlite** **10% Other**	Gray Fibrous Homogeneous
1713458PLM_28					Ashed
15-01 - A	Asphalt shingles, tar paper	**None Detected**	**30% Fiber Glass**	**50% Other** **20% Quartz**	Black Fibrous Heterogeneous
1713458PLM_29	*shingle*				Dissolved
15-01 - B	Asphalt shingles, tar paper	**None Detected**	**60% Cellulose** **10% Synthetic Fibers**	**30% Other**	Black Fibrous Homogeneous
1713458PLM_72	*felt*				Dissolved
15-02 - A	Asphalt shingles, tar paper	**None Detected**	**30% Fiber Glass**	**50% Other** **20% Quartz**	Black Fibrous Heterogeneous
1713458PLM_30	*shingle*				Dissolved
15-02 - B	Asphalt shingles, tar paper	**None Detected**	**60% Cellulose** **10% Synthetic Fibers**	**30% Other**	Black Fibrous Homogeneous
1713458PLM_73	*felt*				Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
16-01 - A *1713458PLM_31*	4" blue cove base, tan mastic *cove base*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Ashed
16-01 - B *1713458PLM_74*	4" blue cove base, tan mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
16-02 - A *1713458PLM_32*	4" blue cove base, tan mastic *cove base*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Ashed
16-02 - B *1713458PLM_75*	4" blue cove base, tan mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Ashed
17-01 - A *1713458PLM_33*	12x12 teal floor tile, yellow mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
17-01 - B *1713458PLM_76*	12x12 teal floor tile, yellow mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
17-02 - A *1713458PLM_34*	12x12 teal floor tile, yellow mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
17-02 - B *1713458PLM_77*	12x12 teal floor tile, yellow mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
18-01 *1713458PLM_35*	Window glazing white	**2% Chrysotile**		**98% Other**	Gray Non Fibrous Homogeneous Crushed
18-02 *1713458PLM_36*	Window glazing white	**Not Analyzed**			
19-01 - A *1713458PLM_37*	Roof asphalt, felt paper, foam, fiber material *tar*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
19-01 - B *1713458PLM_78*	Roof asphalt, felt paper, foam, fiber material *felt*	**None Detected**	**50% Fiber Glass** **10% Cellulose**	**40% Other**	Black Fibrous Heterogeneous Dissolved
19-01 - C *1713458PLM_79*	Roof asphalt, felt paper, foam, fiber material *insulation*	**None Detected**	**60% Cellulose** **10% Fiber Glass**	**25% Perlite** **5% Other**	Gray Fibrous Homogeneous Ashed
19-01 - D *1713458PLM_80*	Roof asphalt, felt paper, foam, fiber material *paper*	**None Detected**	**80% Fiber Glass**	**20% Other**	White, Yellow Fibrous Heterogeneous Teased
19-02 - A *1713458PLM_38*	Roof asphalt, felt paper, foam, fiber material *tar*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
19-02 - B *1713458PLM_81*	Roof asphalt, felt paper, foam, fiber material *felt*	**None Detected**	**50% Fiber Glass** **10% Cellulose**	**40% Other**	Black Fibrous Heterogeneous Dissolved

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19-02 - C *1713458PLM_82*	Roof asphalt, felt paper, foam, fiber material *insulation*	**None Detected**	**60% Cellulose** **10% Fiber Glass**	**25% Perlite** **5% Other**	Gray Fibrous Homogeneous Ashed
19-02 - D *1713458PLM_83*	Roof asphalt, felt paper, foam, fiber material *paper*	**None Detected**	**80% Fiber Glass**	**20% Other**	White, Yellow Fibrous Heterogeneous Teased
20-01 *1713458PLM_39*	Stucco surfacing	**None Detected**		**70% Other** **30% Quartz**	Tan Non Fibrous Heterogeneous Crushed
20-02 *1713458PLM_40*	Stucco surfacing	**None Detected**		**70% Other** **30% Quartz**	Tan Non Fibrous Heterogeneous Crushed
20-03 *1713458PLM_41*	Stucco surfacing	**None Detected**		**70% Other** **30% Quartz**	Tan Non Fibrous Heterogeneous Crushed
21-01 *1713458PLM_42*	Black mastic on brick	**6% Chrysotile**		**94% Other**	Black Non Fibrous Homogeneous Dissolved
21-02 *1713458PLM_43*	Black mastic on brick	**Not Analyzed**			
22-01 *1713458PLM_44*	Transite panel	**25% Chrysotile**		**75% Other**	Gray Fibrous Homogeneous Teased

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22-02	Transite panel	**Not Analyzed**			
1713458PLM_45					
23-01 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_46	*tar*				Dissolved
23-01 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**40% Fiber Glass** **10% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_84	*felt*				Dissolved
23-01 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_85	*foam*				Ashed
23-01 - D	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Homogeneous
1713458PLM_86	*paper*				Ashed
23-02 - A	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
1713458PLM_47	*tar*				Dissolved
23-02 - B	Roof asphalt, felt paper, foam, fiber material	**None Detected**	**40% Fiber Glass** **10% Cellulose**	**50% Other**	Black Fibrous Heterogeneous
1713458PLM_87	*felt*				Dissolved
23-02 - C	Roof asphalt, felt paper, foam, fiber material	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
1713458PLM_88	*foam*				Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Megan Javonovich (89)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel 49-3978-B

Lab Order ID: 1713458
Analysis ID: 1713458_PLM
Date Received: 6/23/2017
Date Reported: 6/29/2017

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	*Lab Notes*				Treatment
23-02 - D	Roof asphalt, felt paper, foam, fiber material	None Detected	95% Cellulose	5% Other	Tan Fibrous Homogeneous
1713458PLM_89	*paper*				Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Megan Javonovich (89)

Analyst

Approved Signatory

17/3458

Client:	ECS Southeast, LLP
Contact:	James Bevers
Address:	1900 Hendersonville Rd, Ste 10, Asheville
Phone:	828-665-2307
Fax:	
Email:	jbevers@ecslimited.com
Project:	Drexel 49-3978-B
Client Notes:	***POSITIVE STOP***
P.O. #.	[Enter P.O. # Here]
Date Submitted:	6/22/2017 0:00
Analysis:	PLM
TurnAroundTime:	5 day

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
01-01	Pile 1	Roof asphalt, felt paper, foam, fiber material	
01-02	Pile 2	Roof asphalt, felt paper, foam, fiber material	
02-01	Pile 2	Black mastic on brick	
02-02	Pile 2	Black mastic on brick	
03-01	Pile 1	Black mastic on brick	
03-02	Pile 1	Black mastic on brick	
04-01	Pile 1	Black mastic on brick	
04-02	Pile 1	Black mastic on brick	
05-01	Pile 3	Transite panel	
05-02	Pile 3	Transite panel	
06-01	Pile 3	12x12 grey floor tile	
06-02	Pile 3	12x12 grey floor tile	
07-01	Pile 4	Black mastic on brick	
07-02	Pile 4	Black mastic on brick	
08-01	Pile 5	Black mastic on wood	
08-02	Pile 5	Black mastic on wood	
09-01	Pile 5	Roof asphalt, felt paper, foam, fiber material	
09-02	Pile 5	Roof asphalt, felt paper, foam, fiber material	

6/23

Received By

Thomas w. Barnes

1713458

10-01	Pile 6	Roof asphalt, felt paper
10-02	Pile 6	Roof asphalt, felt paper
11-01	Office front	12x12 cream floor tile, black mastic
11-02	Office front	12x12 cream floor tile, black mastic
12-01	Office front	2x2 fissure ceiling tile
12-02	Office front	2x2 fissure ceiling tile
13-01	Office	12x12 blue floor tile, 12x12 grey floor tile, black mastic
13-02	Office	12x12 blue floor tile, 12x12 grey floor tile, black mastic
14-01	Office	2x4 fissure ceiling tile
14-02	Office	2x4 fissure ceiling tile
15-01	Office roof	Asphalt shingles, tar paper
15-02	Office roof	Asphalt shingles, tar paper
16-01	Office	4" blue cove base, tan mastic
16-02	Office	4" blue cove base, tan mastic
17-01	Office upper	12x12 teal floor tile, yellow mastic
17-02	Office upper	12x12 teal floor tile, yellow mastic
18-01	Office	Window glazing white
18-02	Office	Window glazing white
19-01	Pile 8	Roof asphalt, felt paper, foam, fiber material
19-02	Pile 8	Roof asphalt, felt paper, foam, fiber material
20-01	Pile 8	Stucco surfacing
20-02	Pile 8	Stucco surfacing
20-03	Pile 8	Stucco surfacing
21-01	Pile 10	Black mastic on brick
21-02	Pile 10	Black mastic on brick
22-01	Pile 10	Transite panel
22-02	Pile 10	Transite panel
23-01	Pile 11	Roof asphalt, felt paper, foam, fiber material
23-02	Pile 11	Roof asphalt, felt paper, foam, fiber material

>>

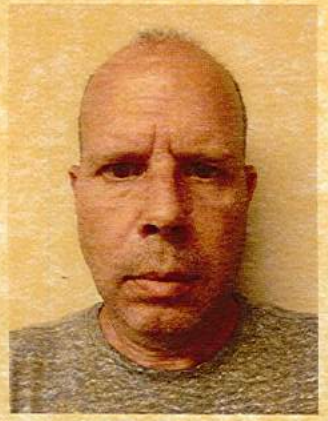
Received By

Thomas w. Barnes

Appendix IV: Certifications/ Licenses

United States Environmental Protection Agency

This is to certify that



Thomas W Barnes

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires October 13, 2019

LBP-I-I168789-1

Certification #

September 29, 2016

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division



North Carolina
Asbestos Accreditation

EXPIRATION			
01-31-2018			
DOB	SEX	HT	WT
02-22-1965	M	6'0"	180
CLASS		#	EXP
INSPECTOR		12983	01-18

Thomas W Barnes Iii
5 Rosemary Lane
Greenville, SC 29615

114437

Public Health
HEALTH AND HUMAN SERVICES

RICHARD O. BRAJER
Secretary

DANIEL STALEY
Director, Division of Public Health

May 23, 2016

James C Bevers
54 Beck Drive
Asheville, NC 28806

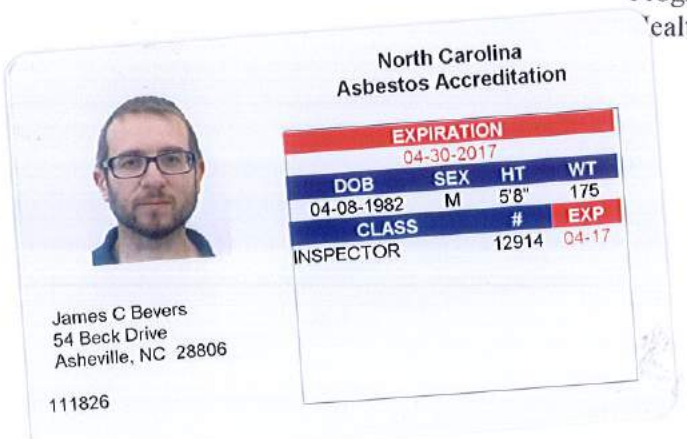
Dear Mr. Bevers:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12914, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on APRIL 30, 2017. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to April 30, 2017. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Ed Norman
Program Manager
Health Hazards Control Unit



Appendix V: XRF Lead-Based Paint Readings

Reading No	Time	Type	Duration	Units	Sequence	Component	Substrate	Side	Condition	Color	Site	Inspe	Room	Misc 1	Results	PbL	PbL Error
1108	6/21/2017 12:13	SHUTTER_CAL	197.16	cps	Final											0.27	0
1109	6/21/2017 12:15	PAINT	15.7	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Null	1	0.1
1110	6/21/2017 12:17	PAINT	20	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Positive	1	0.1
1111	6/21/2017 12:17	PAINT	5.29	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Negative	0.9	0.1
1112	6/21/2017 12:19	PAINT	20	mg / cm ^2	Final			CALIBRATE			drexel mill	twb			Positive	1	0.1
1113	6/21/2017 12:22	PAINT	2.56	mg / cm ^2	Final	CEILING	METAL	A	PEELING	RED	drexel mill	twb	fire shack		Negative	< LOD	0.03
1114	6/21/2017 12:22	PAINT	1.35	mg / cm ^2	Final	CEILING	METAL	A	PEELING	RED	drexel mill	twb	fire shack		Negative	< LOD	0.13
1115	6/21/2017 12:24	PAINT	3.47	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	2		Negative	< LOD	0.06
1116	6/21/2017 12:25	PAINT	5.72	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Negative	< LOD	0.03
1117	6/21/2017 12:26	PAINT	7.39	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Negative	< LOD	0.03
1118	6/21/2017 12:27	PAINT	3.44	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	grey	drexel mill	twb	2		Negative	< LOD	0.03
1119	6/21/2017 12:28	PAINT	1.2	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	YELLOW	drexel mill	twb	2		Positive	2.5	0.9
1120	6/21/2017 12:29	PAINT	3.31	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	2		Negative	< LOD	0.03
1121	6/21/2017 12:30	PAINT	6.64	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	GREEN	drexel mill	twb	2		Negative	< LOD	0.03
1122	6/21/2017 12:31	PAINT	4.22	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Null	< LOD	0.03
1123	6/21/2017 12:32	PAINT	3.62	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	2		Negative	< LOD	0.03
1124	6/21/2017 12:33	PAINT	2.4	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	grey	drexel mill	twb	2		Null	< LOD	0.03
1125	6/21/2017 12:33	PAINT	3.47	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	grey	drexel mill	twb	2		Negative	< LOD	0.06
1126	6/21/2017 12:34	PAINT	3.45	mg / cm ^2	Final	FLOOR	CONCRETE	A	PEELING	YELLOW	drexel mill	twb	2		Negative	< LOD	0.03
1127	6/21/2017 12:36	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	4		Negative	< LOD	0.03
1128	6/21/2017 12:38	PAINT	0.75	mg / cm ^2	Final	COLUMN	WOOD	A	PEELING	orange	drexel mill	twb	4		Null	< LOD	0.14
1129	6/21/2017 12:38	PAINT	1.21	mg / cm ^2	Final	COLUMN	WOOD	A	PEELING	orange	drexel mill	twb	4		Negative	< LOD	0.05
1130	6/21/2017 12:38	PAINT	2.27	mg / cm ^2	Final	COLUMN	WOOD	A	PEELING	orange	drexel mill	twb	4		Negative	< LOD	0.1
1131	6/21/2017 12:39	PAINT	1.35	mg / cm ^2	Final	FLOOR	WOOD	A	PEELING	grey	drexel mill	twb	4		Negative	< LOD	0.06
1132	6/21/2017 12:40	PAINT	3.74	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	4		Null	< LOD	0.1
1133	6/21/2017 12:40	PAINT	5.12	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	4		Null	< LOD	0.03
1134	6/21/2017 12:41	PAINT	2.56	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	BLUE	drexel mill	twb	4		Null	< LOD	0.03
1135	6/21/2017 12:44	PAINT	14.45	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	6		Null	< LOD	0.03
1136	6/21/2017 12:44	PAINT	4.5	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	WHITE	drexel mill	twb	6		Negative	< LOD	0.03
1137	6/21/2017 12:45	PAINT	6.62	mg / cm ^2	Final	WALL	CONCRETE	A	PEELING	RED	drexel mill	twb	6		Null	< LOD	0.03
1138	6/21/2017 12:47	PAINT	3.29	mg / cm ^2	Final	DOOR	WOOD	A	PEELING	WHITE	drexel mill	twb	7		Positive	1.4	0.4
1139	6/21/2017 12:48	PAINT	3.46	mg / cm ^2	Final	DOOR	METAL	A	PEELING	BLUE	drexel mill	twb	7		Negative	0.09	0.06
1140	6/21/2017 12:49	PAINT	1.35	mg / cm ^2	Final	COLUMN	METAL	A	INTACT	YELLOW	drexel mill	twb	7		Negative	< LOD	0.03
1141	6/21/2017 12:50	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	A	INTACT	WHITE	drexel mill	twb	7	bath	Negative	< LOD	0.13
1142	6/21/2017 12:52	PAINT	1.35	mg / cm ^2	Final	WALL	CONCRETE	A	INTACT	YELLOW	drexel mill	twb	7		Negative	< LOD	0.05
1143	6/21/2017 12:52	PAINT	3.6	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	7		Negative	< LOD	0.03

1144	6/21/2017 12:54	PAINT	8.56	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	RED	drexel mill	twb	7	Negative	0.5	0.1
1145	6/21/2017 12:55	PAINT	3.33	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Negative	< LOD	0.07
1146	6/21/2017 12:56	PAINT	2.1	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Null	< LOD	0.25
1147	6/21/2017 12:56	PAINT	2.11	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Null	< LOD	0.04
1148	6/21/2017 12:56	PAINT	1.51	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	WHITE	drexel mill	twb	12	Negative	< LOD	0.03
1149	6/21/2017 12:58	PAINT	0.3	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	BLUE	drexel mill	twb	12	Null	< LOD	0.08
1150	6/21/2017 12:58	PAINT	6.33	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	BLUE	drexel mill	twb	12	Negative	< LOD	0.03
1151	6/21/2017 12:59	PAINT	4.66	mg / cm ^2	Final	WALL	CONCRETE	C	INTACT	BLUE	drexel mill	twb	12	Negative	< LOD	0.03
1152	6/21/2017 13:01	PAINT	3.32	mg / cm ^2	Final	DOOR	WOOD	C	INTACT	YELLOW	drexel mill	twb	12	Positive	1.3	0.2
1153	6/21/2017 13:02	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	B	INTACT	YELLOW	drexel mill	twb	12	Negative	< LOD	0.03
1154	6/21/2017 13:02	PAINT	3.46	mg / cm ^2	Final	WALL	CONCRETE	B	INTACT	YELLOW	drexel mill	twb	12	Negative	< LOD	0.04
1155	6/21/2017 13:03	PAINT	2.71	mg / cm ^2	Final	DOOR	WOOD	B	INTACT	YELLOW	drexel mill	twb	12	Positive	1.5	0.4
1156	6/21/2017 13:05	PAINT	1.37	mg / cm ^2	Final	DOOR	WOOD	B	INTACT	YELLOW	drexel mill	twb	12	Negative	< LOD	0.03
1157	6/21/2017 13:10	PAINT	5.58	mg / cm ^2	Final			CALIBRATE			drexel mill	twb		Negative	0.9	0.1
1158	6/21/2017 13:12	PAINT	20	mg / cm ^2	Final			CALIBRATE			drexel mill	twb		Positive	1	0.1
1159	6/21/2017 13:13	PAINT	5.72	mg / cm ^2	Final			CALIBRATE			drexel mill	twb		Negative	0.9	0.1

Appendix VI: Lead Laboratory Analytical Results

Analysis for Lead Concentration in Paint Chips

by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B

Customer: ECS Southeast, LLP
1900 Hendersonville Road
Asheville, NC 28803

Attn: James Bevers

Project: Drexel/49-3978-B

Lab Order ID: 1713457
Analysis ID: 1713457_PBP
Date Received: 6/23/2017
Date Reported: 6/30/2017

Sample ID *Lab Sample ID*	Description *Lab Notes*	Mass *(g)*	Concentration *(ppm)*	Concentration *(% by weight)*
LBP-1 1713457PBP_1	Pile 1 - teal paint on brick	0.0853	< 47	**< 0.005%**
LBP-2 1713457PBP_2	Pile 3 - grey paint on concrete	0.0763	55	**0.006%**
LBP-3 1713457PBP_3	Pile 3 - yellow paint on concrete	0.0819	< 49	**< 0.005%**
LBP-4 1713457PBP_4	Pile 5 - orange paint on wood	0.0753	480	**0.047%**
LBP-5 1713457PBP_5	Pile 5 - grey paint on wood	0.1001	< 40.	**< 0.004%**
LBP-6 1713457PBP_6	Pile 5 - white paint on brick	0.0826	190	**0.019%**
LBP-7 1713457PBP_7	Office - cream paint on brick	0.0681	110	**0.011%**
LBP-8 1713457PBP_8	Exterior office - white paint on wood	0.0866	38000	**3.8%**
LBP-9 1713457PBP_9	Machine building - cream paint on wood	0.0510	79000	**7.9%**

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Daniel Olson (9)

Analyst

Laboratory Director

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 173457
Client Code: _____

Contact Information

Company Name: ECS SOUTHEAST
Address: 1900 HENDERSONVILLE RD
SUITE 10
ASHEVILLE, NC 28803
Contact: JIM BEVERS
Phone ☒: 828-665-2307
Fax ☐:
Email ☒: JBEVERS@ECSLIMITED.COM
PO Number:
Project Name/Number: DREXEL / 49-3978-B

Billing/Invoice Information

Company: SAME
Address:
Contact:
Phone ☐:
Fax ☐:
Email ☐:

Lead Test Types

Paint Chips by Flame AA (PBP) ☒	Soil by Flame AA (PBS) ☐	Other ☐
Wipe by Flame AA (PBW) ☐	Air by Flame AA (PBA) ☐	

Turn Around Times

3 Hours	☐	72 Hours	☐
6 Hours	☐	96 Hours	☐
12 Hours	☐	120 Hours	☒
24 Hours	☐	144+ Hours	☐
48 Hours	☐		

Sample ID #	Description/Location	Volume/Area	Comments
LBP-1	BLDG 1 - TEAL PAINT ON BRICK		
LBP-2	BLDG 3 - GREY PAINT ON ~~BRICK~~ CONCRETE		
LBP-3	BLDG 3 - YELLOW PAINT ON CONCRETE		
LBP-4	BLDG 5 - ORANGE PAINT ON WOOD		
LBP-5	BLDG 5 - GREY PAINT ON WOOD		
LBP-6	BLDG 5 - WHITE PAINT ON BRICK		
LBP-7	OFFICE - CREAM PAINT ON BRICK		
LBP-8	EXTERIOR OFFICE - WHITE PAINT ON WOOD		
LBP-9	MACHINE BUILDING - CREAM PAINT ON WOOD		

Accepted ☑
Rejected ☐

Total Number of Samples 9

Relinquished by	Date/Time	Received by	Date/Time
	6/22/1600		6/23 9:30

August 12, 2019

Ms. Heather Cotton
Planning and Development Director
City of Marion
194 North Main Street
Marion, North Carolina 28752

Reference: UST and OWS Fluid Removal and Disposal Report
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
Brownfields Project No.: 20072-16-56
ECS Project 49-3978-F

Dear Ms. Cotton:

ECS Southeast, LLP (ECS) is pleased to provide the City of Marion with the results of our Underground Storage Tank (UST) and Oil/Water Separator (OWS) Fluid Removal and Disposal Report for the above referenced property. ECS' services were conducted in accordance with the services outlined in ECS Proposal 49-8961-PR3 dated January 2, 2019. ECS appreciates the opportunity to provide our services to you. If there are questions regarding this report, or a need for further information, please contact us.

PROJECT INFORMATION

The subject property is located at 70 Blue Ridge Street in Marion, McDowell County, North Carolina (Figures 1 and 2). The approximate 15.29 area subject property previously contained structures related to the Drexel facility. However, these structures have been removed during demolition and debris removal activities. The subject property has entered in the Brownfields Program as Brownfields Project Number 20072-16-56.

The facility also includes a group of four USTs and an OWS located in the central portion of the facility. Based on measurements, ECS has estimated that three of the USTs have capacities of approximately 30,000 gallons and one of the USTs has a capacity of 20,000 gallons. The OWS is estimated to have a capacity of approximately 2,000 gallons. The locations of the USTs and OWS are depicted on Figures 2 and 3.

SCOPE OF SERVICES

DH Griffin Wrecking Company, Inc. (DHG) was contracted by the City of Marion to conduct removal of fluids from the above-mentioned USTs and OWS. Between March 27, 2019 and April 12, 2019, DHG conducted the fluid removal activities. DHG opened the USTs and OWS to access the interior then used a vacuum truck to remove the fluids from within each. DHG personnel entered the USTs and OWS to remove sludge from the bottom of each. The USTs were not cleaned at this time. Following removal of fluids and sludge from the USTs and OWS, UST covers were replaced and bolted down. The openings were covered using plywood anchored down by concrete screws to prevent rainwater from entering the USTs and OWS and

to prevent potential injuries. Photographs of the fluid and sludge removal activities and the covered openings are provided in Appendix A.

Approximately 31,296 gallons of #6 oil and water mixture were removed from the USTs and OWS and transported to HOH Corporation in Winston-Salem, North Carolina for disposal. Manifests associated with the transportation and disposal are provided in Appendix C.

In addition, a total of eight drums were identified in various locations of the property including in and in the vicinity of the former chemical building and in the vicinity of the former aluminum clad building. The drums contained cleaners and #2 tool oil. Approximately 2,000 pounds of fluid were transported to the DHG facility in Greensboro, North Carolina for disposal. The disposal manifest for the drums is included in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Based on the observations made during the fluid removal activities, ECS concludes the following:

- Approximately 31,296 gallons of fluid was removed from four USTs and an OWS and disposed at HOH Corporation in Winston-Salem, North Carolina. Eight drums of approximately 2,000 pounds of cleaners and #2 tool oil were removed and disposed at the DHG facility in Greensboro, North Carolina.
- The USTs and OWS openings were covered with plywood anchored down by concrete screws to prevent rainwater from entering the USTs and OWS and to prevent injuries.

ECS recommends the USTs and OWS be removed and transported off-site to an appropriate disposal facility at a future date.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in surface water assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities. This report was prepared for the express use of the City of Marion. Use of this report by other individuals or companies implies their acceptance of the General Conditions of Service of the original contract.

ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us.

Respectfully submitted,

ECS SOUTHEAST, LLP

NORTH CAROLINA PROFESSIONAL SEAL 044440 ENGINEER JAMES C. BEVERS

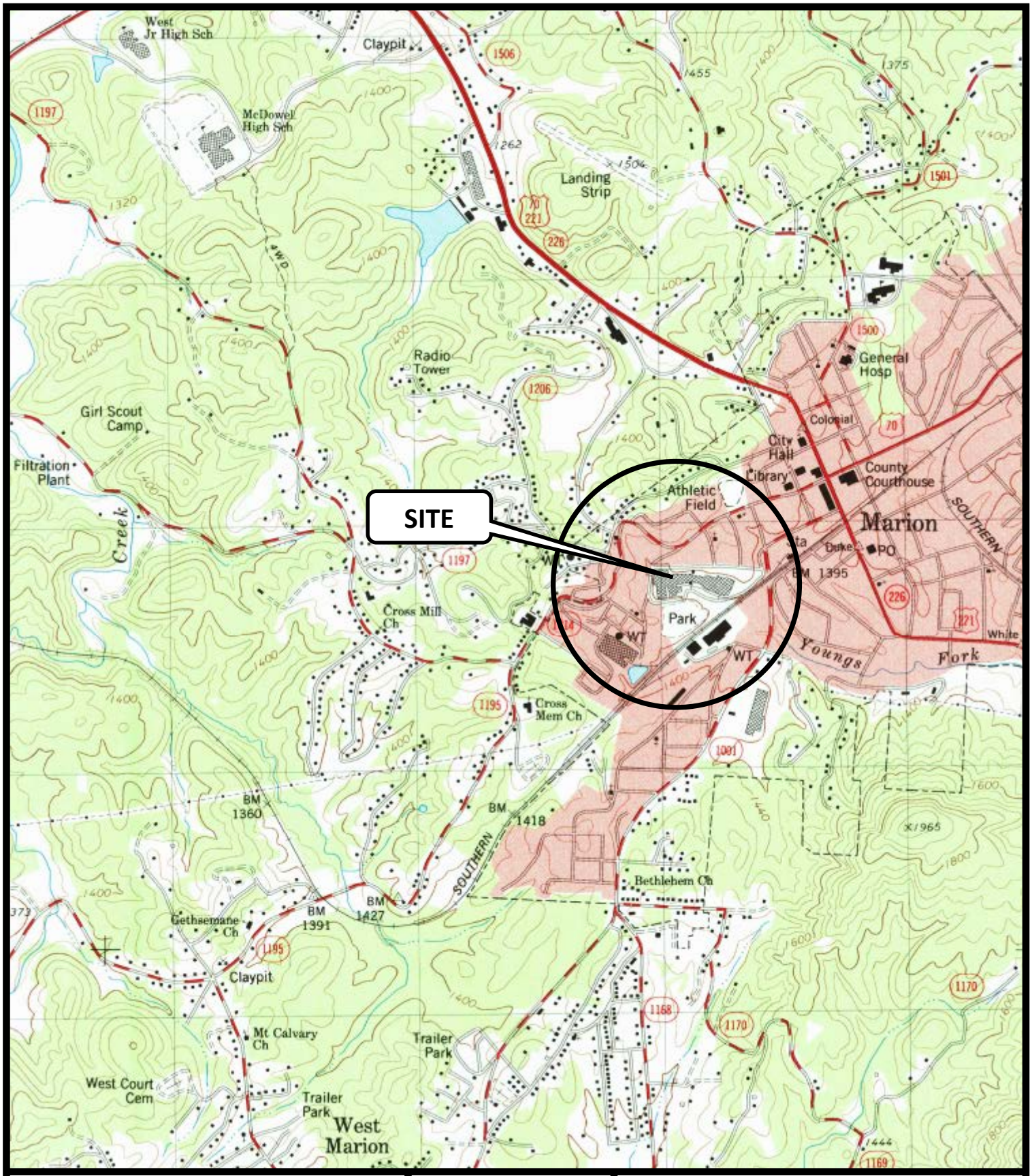
8/12/2019

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Principle Geologist
rsmith3@ecslimited.com
704-525-5152

Enclosures: Figures
Photolog
Disposal Manifests





SOURCE:

USGS TOPOGRAPHIC MAP
MARION WEST, NORTH CAROLINA QUADRANGLE
DATED 1985

SCALE: 1" = 2,000'

FIGURE 1
SITE LOCATION MAP

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-F



SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 2
UST LOCATION MAP
FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-F



SOURCE:

GOOGLE EARTH
2019 AERIAL PHOTOGRAPH

= 50 FEET

FIGURE 3
UST LOCATION MAP
FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-F



Photograph 1: View of UST fluid and sludge removal activites.



Photograph 2: View UST cover removal.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-F



Photograph 3: View of drums located in the chemical building.



Photograph 4: View of fluid vacuuming activities.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-F



Photograph 5: View of confined space entry.



Photograph 6: View of drum classification and field screening activities.



Photograph 7: View of drums located on the southwestern corner of the subject property.



Photograph 7: View of vacuuming out the oil water separator.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-F



Photograph 7: View of UST opening covering activites.

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29662

P.O.# 1975-4646

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St
Marion NC 28752

Contact: Heather Cotton

Date: 3-27-19

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: D H Griffin Wrecking Co
Greensboro NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: _____ **Date:** 3-27-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non Regulated #6 Oil/Water mixture	2977	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: D H Griffin Wrecking Co
Greensboro NC

Phone #: 336-855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

_____ 3-27-19
Pickup Driver's Signature **Date**

_____ 3-27-19
Delivering Driver's Signature **Date**

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 **EPA ID#:** NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ **Date:** _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

336 727-4644
336 727-8840 fax
www.hohcorp.com

29661

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St
Marion, NC 28752

Contact: Heather Cotton

Date: 2-28-19

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: D H Griffin Wrecking Co
Greensboro, NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: _____ Date: 3-28-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non Regulated Asbestos Wastewater	2915	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac. Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: D H Griffin Wrecking Co
Greensboro, NC

Phone #: 336 855 7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

_____ 3-28-19
Pickup Driver's Signature Date

_____ 3-28-19
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29663

Pott 19-375-4646

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St
Marion NC 28752

Contact: Heather Cotton

Date: 3-29-19

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: D.H. Griffin Wrecking Co
Greensboro NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: [signature]

Date: 3-29-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non Regulated Soil/Water mixture	2720	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac-Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: D.H. Griffin Wrecking Co.
Greensboro, NC

Phone #: 336-855-7921

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

[signature] 3-29-19
Pickup Driver's Signature Date

[signature] 3-29-19
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 **EPA ID#: NCR000012260**

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH **YELLOW COPY-RETURN TO GENERATOR** **PINK COPY-TRANSPORTER** **GOLDENROD COPY-GENERATOR**

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29664

PO# 19-75-4646

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St.
Marion, NC 28752

Contact: Heather Cotton

Date: _____

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: D.H. Griffin Wrecking Co.
Greensboro, NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: x [signature] Agent

Date: 4-3-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE (i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)
Non-Regulated Aqueous Water Mixture	2530	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac. Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: D.H. Griffin Wrecking Co.
Greensboro, NC

Phone #: 336-255-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

[signature] 4-3-19
Pickup Driver's Signature Date

[signature] 4-3-19
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29665

PO# 19-75-4646

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St

Marion NC 28752

Contact: Heather Cotton

Date: _____

Phone #: 828-652-3552

EPA ID#: N/A

Bill to: D.H. Griffin Wrecking Co

Greensboro, NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: _____ **Date:** _____

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non-Regulated			
#60 Water Mixture	2703	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: D.H. Griffin Wrecking Co

Greensboro, NC

Phone #: 336-855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

_____ 7-9-19

Pickup Driver's Signature **Date**

_____ 7-9-19

Delivering Driver's Signature **Date**

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 **EPA ID#:** NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ **Date:** _____

WHITE COPY-HOH **YELLOW COPY-RETURN TO GENERATOR** **PINK COPY-TRANSPORTER** **GOLDENROD COPY-GENERATOR**

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29666

Po# 19-75-4646

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St
Marion NC 28752

Contact: Heather Cotton

Date: _____

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: DH Griffin Wrecking Co
Greensboro NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: x [signature] Agent **Date:** 4-5-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non-Regulated			
#6 Oil/Water mixture	2760	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DH Griffin Wrecking Co
Greensboro NC

Phone #: 336-855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

[signature] 4-5-19
Pickup Driver's Signature **Date**

[signature] 4-5-19
Delivering Driver's Signature **Date**

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 **EPA ID#:** NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ **Date:** _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29667

Pd# 19-75-4646

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: Blue Ridge St
NC 28752

Contact: Cotton

Date: _____

Phone #: 828-652-2552

EPA ID#: NIA

Bill to: DH Griffin Wrecking Co
Greensboro, NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: _____ **Date:** 4-8-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non-Regulated Acid/Water mixture	26/16	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DH Griffin Wrecking Co
Greensboro, NC

Phone #: 336-855-7030

EPA ID#: NIA

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

_____ 4-8-19
Pickup Driver's Signature **Date**

_____ 4-8-19
Delivering Driver's Signature **Date**

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 **EPA ID#:** NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ **Date:** _____

WHITE COPY-HOH **YELLOW COPY-RETURN TO GENERATOR** **PINK COPY-TRANSPORTER** **GOLDENROD COPY-GENERATOR**

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

336 727-4644
336 727-8840 fax
www.hohcorp.com

29668

Po# 19-75-4646

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St. Marion, NC 28752

Contact: Heather cotten

Date: 4-9-19

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: DH Griffin wrecking CO. Greensboro, N.C.

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: [signature]

Date: 4-9-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non-Regulated #6 Oil/water Mixture	2703	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	vac truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DH Griffin wrecking CO. Greensboro, N.C.

Phone #: 336-855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

[signature] 4-9-19

Pickup Driver's Signature Date

[signature] 4-9-19

Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☑ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

336 727-4644
336 727-8840 fax
www.hohcorp.com

29669

PO# 19-75-4646

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St.
Marion, N.C. 28752

Contact: Heather cotton

Date: 4/10/9

Phone #: 828-652-3511

EPA ID#: N/A

Bill to: DHGriffin wrecking co.
Greensboro N.C.

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: D. Mask Agent

Date: 4/10/9

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non-Regulated Hydrocarbon/water mixture	3703	Lbs. / (Gallons) / Drums / Totes / Tons / Cu. Yd. Bags	vac truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DHGriffin wrecking co.
Greensboro, N.C.

Phone #: 336-855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

JD 4-10-9
Pickup Driver's Signature Date

4-10-9
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

MATERIAL MANIFEST

EMERGENCY PHONE NO.
336-855-7030

D.H. GRIFFIN WRECKING CO., INC.

4716 Hilltop Road • Greensboro, NC 27407
Phone: (336) 855-7030

Manifest Document No.	001
Page	of
D.H.G. Job #	19-75-4640

GENERATOR INFORMATION

Name: City of Marion		US EPA ID No.	
Street Address: 70 Blue Ridge St Marion, NC	Mailing Address	Phone No.	
		Contact	

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div.	UN / NA ID No.	Packing Group	Containers Qty.	Containers Type	Total Quantity	Unit Wt./Vol.
a.		Non Regulated Materials	N/A	N/A	N/A	8	Drums	2000	LBS
b.									
c.									

ADDITIONAL INFORMATION	ERG No.	Profile Code	Facility Use
a. cleanout, #2 fuel oil			
b.			
c.			

GENERATOR'S CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name	Signature	Mo. / Day / Yr.
Dan Porter (Agent)	[signature] (Agent)	4-10-19

TRANSPORTER INFORMATION

Transporter: D.H. Griffin Wrecking Co.	*I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.*
Address: 4716 Hilltop Road Greensboro, NC 27407	Signature [signature] Shipment Date 4-10-19
Transporter or EPA ID No. / Unit No.	*I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.*
Phone: 336-855-7030	Signature / Delivery Date

FACILITY INFORMATION

Facility: D.H. Griffin	*I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.*
Address: 4016 Hilltop Road Greensboro, NC	Signature / Receipt Date
Facility or EPA ID No.	Discrepancies / Routing Codes / Handling Methods a.
Phone	b.
Contact	c.

ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

336 727-4644
336 727-8840 fax
www.hohcorp.com

29670

PO # 19-TF-4646

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St. Marion, N.C. 28752

Contact: Heather COTTON

Date: 4/11/19

Phone #: 828-652-3551

EPA ID#: N/A

Bill to: DHGriffin wrecking co. Greensboro, N.C.

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: _____ Date: 4/11/19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non-Regulated #6 oil/water mixture	2760	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	vactruck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DHGriffin wrecking co. Greensboro, N.C.

Phone #: 336-855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

_____ 4-11-19
Pickup Driver's Signature Date

_____ 4-11-19
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☑ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

29671

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion
Address: 70 Blue Ridge St.
Marion, N.C. 28752
Contact: Heather Cotton

Date: 4-11-19
Phone #: 828-652-3551
EPA ID#: N/A
Bill to: DH Griffin Wrecking Co.
Greensboro, N.C.

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: [signature] Agent
Date: 4-11-19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE (i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)
NON-Regulated #60.1 Water Mixture	2646	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	vac truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DH Griffin Wrecking Co.
Greensboro, N.C.
Phone #: 336 855-1030
EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

[signature] 4.11.19
Pickup Driver's Signature Date

[signature] 4.11.19
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☑ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

HOH CORPORATION
1701 Vargrave St.
Winston-Salem, NC 27107

30208

336 727-4644
336 727-8840 fax
www.hohcorp.com

NON-HAZARDOUS WASTE MANIFEST

Generator: City of Marion

Address: 70 Blue Ridge St
Marion NC 28752

Contact: Heather Collins

Date: 4-12-19

Phone #: 828-652-3331

EPA ID#: N/A

Bill to: DLG Enterprises Co
Greensboro NC

Process which generated waste: I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non-hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Signature: [signature] Agent

Date: 4/12/19

NAME AND/OR DESCRIPTION OF WASTE	QUANTITY	CIRCLE UNITS	CONTAINER TYPE & SIZE *(i.e. 5 gal pail, 30 gal. drum, 55 gal. drum, 85 gal. over-pack)*
Non Regulated			
0-60A/winter mix	1273	Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	Vac Truck
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	
		Lbs. / Gallons / Drums / Totes / Tons / Cu. Yd. Bags	

Transporter: DLG Enterprises
Greensboro NC

Phone #: 336 855-7030

EPA ID#: N/A

I certify that the specified waste was transferred in a registered (licensed) vehicle to HOH Corporation and was accepted.

[signature] 4-12-19
Pickup Driver's Signature Date

[signature] 4-12-19
Delivering Driver's Signature Date

(DO NOT WRITE BELOW THIS LINE)

Facility: HOH Corporation
1701 Vargrave St.
Winston-Salem, NC 27107

CWT Permit #: 1998 EPA ID#: NCR000012260

HANDLING METHOD: ☐ *WASTEWATER TREATMENT* ☐ *SOLIDIFICATION* ☐ *USED OIL RECYCLING*

☐ *PACKAGED/RETURNED GOODS GRINDING* ☐ *WASTE-TO-ENERGY* *OTHER:* _____

I certify that the *Transporter* above delivered the specified material to this facility and was accepted and properly handled in the above manner.

Signature: _____ Date: _____

WHITE COPY-HOH YELLOW COPY-RETURN TO GENERATOR PINK COPY-TRANSPORTER GOLDENROD COPY-GENERATOR

ECS SOUTHEAST, LLP
"Setting the Standard for Service"
Geotechnical • Construction Materials • Environmental • Facilities
NC Registered Engineering Firm F-1078
NC Registered Geologists Firm C-406
SC Registered Engineering Firm 3239

August 8, 2019

Ms. Heather Cotton
Planning and Development Director
City of Marion
194 North Main Street
Marion, North Carolina 28752

Reference Soil Remediation Report
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
Brownfields Project No.: 20072-16-56
ECS Project 49-3978-F

Dear Ms. Cotton:

ECS Southeast, LLP (ECS) is pleased to provide the City of Marion with the results of our Soil Remediation Report for the above referenced property. ECS' services were conducted in accordance with the services outlined in an ECS Additional Services Authorization Proposal 49:3978-F dated April 23, 2019. ECS appreciates the opportunity to provide our services to you. If there are questions regarding this report, or a need for further information, please contact us.

Respectfully submitted,

ECS Southeast, LLP

NORTH CAROLINA PROFESSIONAL SEAL 044440 ENGINEER JAMES C. BEVERS 9/8/2019

James C. Bevers, PE
Environmental Project Manager
JBevers@ecslimited.com
828-785-4179

M. H. McDuffie

Matthew H. McDuffie, PG
Principal Geologist
MMcDuffie@ecslimited.com
704-378-9003

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Appendix B – Laboratory Reports and Chains of Custody
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1. PROJECT INFORMATION

The subject property is located at 70 Blue Ridge Street in Marion, McDowell County, North Carolina (Figures 1 and 2). The approximate 15.29 area subject property consists of an office building, an aluminum-clad steel frame building, a partially demolished former chemical storage building, and building debris from the remainder of the former facility. The subject property has entered in the Brownfields Program as Brownfields Project Number 20072-16-56.

Southeast of the former office building, an area of petroleum impacted material was encountered during debris removal activities. The impacted material was identified by a strong petroleum odor and a length of pipe observed to contain an unknown fluid. Ms. Tracy Wahl with the North Carolina Brownfields Program (NCBP) classified this incident as an active release of petroleum. The debris removal activities in this area ceased and the area was marked with caution tape. Ms. Wahl determined that the identified impacts be remediated via excavation and impacted materials be disposed of at an approved facility. The location of the active release is depicted on Figure 2.

2. SCOPE OF SERVICES

2.1 Introduction to Scope of Work

The activities consisted of excavation of the petroleum impacted material from the identified active release area. DH Griffin was contracted by the City of Marion to conduct the excavation activities. ECS observed and documented excavation activities conducted by DH Griffin. The extents of petroleum impacted material to be removed were determined by odor, staining, and screening using a photoionization detector (PID). Photographs of the field activities are included in Appendix A.

2.2 Excavation Activities

ECS observed the excavation of the petroleum impacted material on April 16, 2019. The material removed consisted of soil, concrete, wood, and other debris from the demolition of buildings at the property. Soil excavation activities were terminated horizontally when the extent of the petroleum impacted materials from the active release were removed and vertically when groundwater was encountered. The final excavation was approximately 3 feet below the ground surface. The excavation was rectangular in shape measuring approximately 46 feet long approximately 14 feet wide. The southern wall of the excavation consisted of the side of a concrete slab and brick wall that extend the entire depth of the excavation. The concrete slab and brick wall also had a 1.5 foot wide footer extending into the base of the excavation. The excavation area is depicted on Figure 3. Excavated material was temporarily stockpiled on the concrete slab to the south of the excavation and covered with a plastic tarp.

2.3 Soil Sampling Activities

Following removal of impacted material beyond the extent of an active release based on field screening results, ECS collected post-excavation confirmatory soil samples at an interval of

every ten linear feet around the northern, eastern, and western sides of the excavation. A total of nine samples were collected along the walls of the excavation. One sample was collected from the base of the excavation. Soil samples were not collected from the southern side of the excavation due to the presence of a concrete slab and potential groundwater. The sampler wore new, disposable nitrile gloves to collect each sample. The approximate locations of the samples are depicted on Figure 3.

2.4 Screening Activities

ECS screened the soil samples collected from the sidewalls and base of the excavation using a PID and volatile organic vapors were detected at levels ranging from 11.6 to 181 parts per million (ppm). The recorded PID responses are provided on Table 1.

2.5 Sample Preparation and Submittal

The soil samples were placed into laboratory prepared/preserved containers. The sample containers were labeled with ECS project number, sample identification, sample date and time, and requested analytical analysis. The containers were placed into protective packaging material and placed into a cooler with ice to maintain the samples at approximately 4° Celsius (C°). The samples were submitted to Pace Analytical Services, LLC (Pace) located in Asheville, North Carolina (North Carolina Certification #5342) for analysis for volatile organic compounds (VOCs) using EPA Method 8260, semi-volatile organic compounds (SVOCs) using EPA Method 8270, RCRA Metals using EPA Method 6020 and 7471, and hexavalent chromium using EPA Method 7199 in accordance with the Environmental Management Plan (EMP) dated April 23, 2019. ECS maintained proper chain-of-custody (COC) procedures throughout the sample collection and transportation process. A copy of the COC is included in Appendix B.

Following excavation activities, ECS collected a composite soil sample from the stockpiled material for disposal classification. The soil sample was submitted to Pace for analysis for Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) using EPA Method 8015C and benzene, ethylbenzene, toluene, total xylenes (BTEX) using EPA Method 8260D. ECS maintained proper COC procedures throughout the sample collection and transportation process. A copy of the COC is included in Appendix B.

2.6 Soil Disposal Activities

Following receipt of analytical results of the composite soil sample, the stockpiled soil was loaded onto trucks and transported to Foothills Regional Landfill for disposal. Approximately 74.68 tons of soil and debris were removed from the property for disposal. Disposal Manifests are provided in Appendix C.

3. RESULTS

3.2 Laboratory Analytical Results

Laboratory analysis of the confirmation soil samples detected multiple compounds; including VOCs, SVOCs, RCRA Metals, Mercury, and Hexavalent Chromium.

The following compounds were detected at concentrations above the Protection of Groundwater Preliminary Health Based Soil Remediation Goals (PSRG):

- Benzene in soil samples S-1, S-2, S-2, S-5, S-9, and B-1
- Ethylbenzene in soil samples S-1, S-2, and S-3
- Cumene in soil sample S-1
- Naphthalene in soil samles S-1, S-2, and S-3
- 4-Methyl-tert-2-pentanone in soil sample S-9
- n-Propylbenzene in soil samples S-1 and S-9
- Toluene in soil samples S-1, S-2, S-3, and S-9
- 1,2,4-Trimethylbenzene in soil samples S-1, S-2, S-3, and S-9
- 1,3,5-Trimethylbenzene in soil samples S-1 and S-2
- Total Xylenes is soil samples S-1, S-3, and S-9
- Di-n-butylphthalate in soil samples S-7 and S-9
- Chromium in soil samples S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, and S-9

The following compounds were detected at concentrations above the Residential Health Based PSRG:

- Benzene in soil samples S-1, S-2, S-3, S-5, S-9, and B-1
- Ethylbenzene in soil samples S-1, S-2, S-3, S-5, and S-9
- Cumene in soil sample S-1
- Naphthalene ins soil samples S-1, S-2, and S-3
- n-Propylbenzene in soil sample S-1
- Toluene in soil sample S-1 and S-2
- 1,2,4-Trimethylbenzene in soil samples S-1, S-2, and S-3
- 1,3,5-Trimethylbenzene in soil samples S-1 and S-2
- Total Xylenes in soil samples S-1 and S-2
- Chromium in soil samples S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, S-9 and B-1
- Hexavalent Chromium in soil samples S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, S-9 and B-1

The following compounds were detected at concentrations above the Industrial/Commercial Health based PSRG:

- Benzene in soil samples S-1, S-2, S-3, S-5, S-9, and B-1
- Ethylbenzene in soil samples S-1, S-2, and S-3
- Naphthalene in soil samples S-1, S-2, and S-3

- Toluene in soil sample S-1
- 1,2,4-Trimethylbenzene in soil samples S-1 and S-2
- 1,3,5-Trimethylbenzene in soil Samples S-1 and S-2
- Total Xylenes in soil samples S-1 and S-3
- Chromium in soil samples S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, S-9, and B-1

Barium, lead, selenium, and Mercury were identified in soil samples above laboratory reporting limits; however, were below the Protection of Groundwater, Residential, and Industrial/Comercial PSRGs.

A summary of the laboratory analytical results is included in Table 2. The laboratory data sheets are included in Appendix B.

Laboratory analysis of the composite soil sample for the purposes of disposal classification identified BTEX, TPH-DRO, and TPH-GRO. A summary of the laboratory analytical results is included in Table 3. The laboratory data sheets are included in Appendix B.

4. CONCLUSIONS

Based on the results of the soil remediation, ECS concludes the following:

- Approximately 74.68 tons of petroleum impacted material was excavated and disposed of at an approved facility from the active release of petroleum area. ECS concludes that initial abatement actions have been completed under the direction and in accordance with the Brownfields Manager.
- Concentrations of compounds above the Protection of Groundwater, Residential and Industrial/Commercial Health Based PSRGs remain in the northern, eastern, and western, walls of the excavation from prior uses of the property.

5. RECOMMENDATIONS

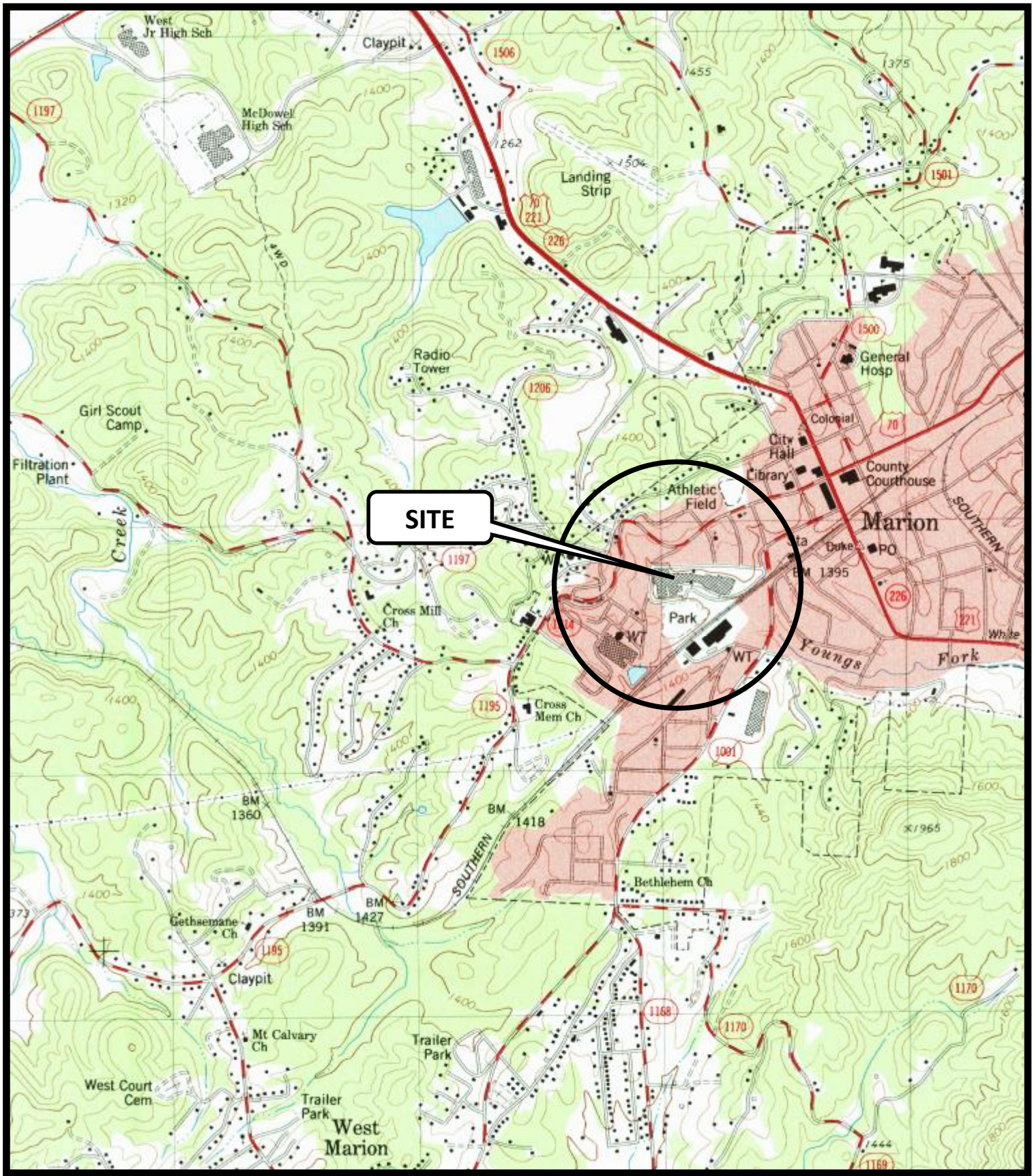
Based on the results of the remediation activities, ECS recommends the following:

- Based on conversations with the NCBP, the location of the remaining contamination should be noted and removed or capped at a future date in accordance with the EMP and Brownfields Agreement.

6. QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in environmental remediation projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities. This report was prepared for the express use of the City of Marion. Use of this report by other individuals or companies implies their acceptance of the General Conditions of Service of the original contract.

FIGURES



SOURCE:

USGS TOPOGRAPHIC MAP
MARION WEST, NORTH CAROLINA QUADRANGLE
DATED 1985

SCALE: 1" = 2,000'

FIGURE 1
SITE LOCATION MAP

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-F



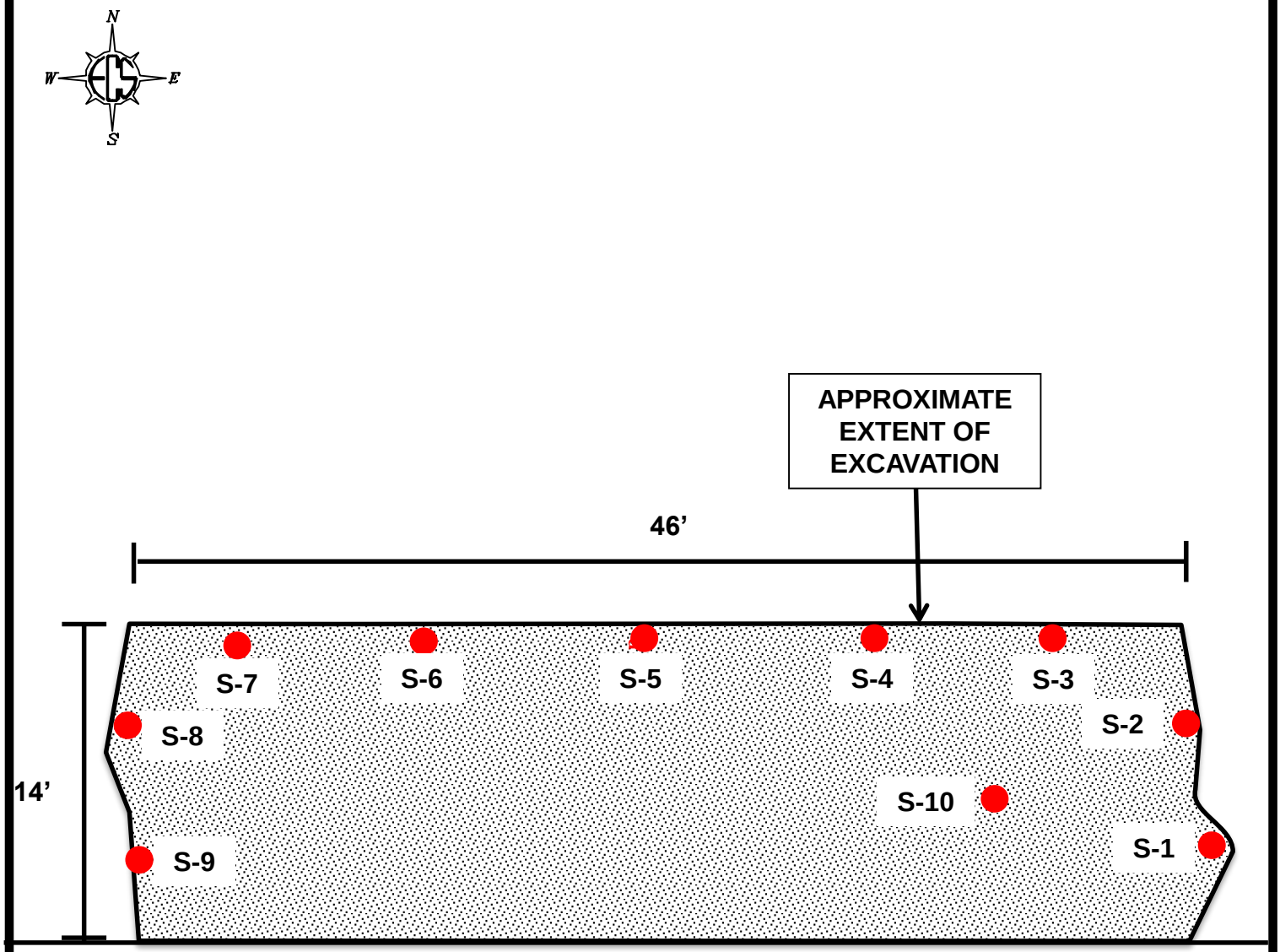
SOURCE:

GOOGLE EARTH
2015 AERIAL PHOTOGRAPH

= 250 FEET

FIGURE 2
PETROLEUM MATERIAL EXCAVATION LOCATION MAP
FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-F



LEGEND

● APPROXIMATE LOCATION OF SOIL SAMPLE

SOURCE:

FIELD DRAWINGS

= 4 FEET

FIGURE 3
SOIL SAMPLING LOCATION MAP

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUTNY,
NORTH CAROLINA

ECS PROJECT NO. 49-3978-F

TABLES

Table 1
Summary of PID Readings
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-3978-F

Sample ID	PID Reading (ppm)
S-1	181
S-2	82
S-3	49.2
S-4	13.1
S-5	45.3
S-6	29.6
S-7	26.8
S-8	11.6
S-9	59.2
B-1	12

PID = photoionization detector
ppm = parts per million
ft bgs = feet below the ground surface
Readings taken between February 6 and 8, 2018
BOLD = Sample submitted for analysis

Table 2
Summary of Soil Analytical Results
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-3978-F

PARAMETER	ANALYTICAL RESULTS										COMPARISON CRITERIA		
Sample ID	**S-1**	**S-2**	**S-3**	**S-4**	**S-5**	**S-6**	**S-7**	**S-8**	**S-9**	**B-1**	**Protection of Groundwater PSRG**	**Residential Health Based PSRG**	**Industrial/ Commercial Health Based PSRG**
Collection Date	4/16/19	4/16/19	4/16/19	4/16/19	4/16/19	4/16/19	4/16/19	4/16/19	4/16/19	4/16/19			
Volatile Organic Compounds (VOCs) by EPA Method 8260D													
Benzene	**1720**	**625**	**381**	BRL	**28.6**	BRL	BRL	BRL	**8.5**	**22.9**	0.01	1	5
Ethylbenzene	**5940**	**440**	**299**	BRL	7.7	BRL	BRL	BRL	10.7	BRL	13	6.1	27
Isoproylbenzene (cumene)	**718**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	2.3	410	2,100
Naphthalene	**2460**	**239**	**133**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.39	4.1	18
4-Methyl-tert-2-pentanone (MIBK)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	**197**	BRL	0.45	7,000	40,000
n-Propylbenzene	**2730**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	**9.2**	BRL	2.6	780	5,100
Toluene	**14700**	**2360**	**900**	BRL	BRL	BRL	BRL	BRL	**29.1**	BRL	8.3	990	9,700
1,2,4-Trimethylbenzene	**15200**	**505**	**334**	BRL	BRL	BRL	BRL	BRL	10.2	BRL	12	63	370
1,3,5-Trimethylbenzene	**5040**	**2050**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	11	56	320
Total Xylenes	**29800**	BRL	**1070**	BRL	BRL	BRL	BRL	BRL	**41.3**	BRL	9.9	120	530
All other VOCs	--	--	--	--	--	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270E													
Di-n-butylphthalate	BRL	BRL	BRL	BRL	BRL	BRL	**462**	BRL	**632**	BRL	35	1,300	16,000
All other SVOCs	--	--	--	--	--	--	--	--	--	--	--	--	--
RCRA Metals by EPA Method 6020													
Arsenic	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	5.8	0.68	3.00
Barium	43.4	79.2	58.5	45.5	58.1	42.0	86.1	58.5	62.2	65.9	580	3,100	47,000
Cadmium	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	3.0	14	200
Chromium	**8.6**	**16.1**	**14.3**	**13.3**	**11.1**	**14.0**	**23.1**	**18.0**	**19.7**	**18.0**	3.8	0.31	6.5
Lead	12.2	13.9	11.9	12.7	13.3	11.1	15.9	11.9	11.9	17.7	270	400	400
Selenium	BRL	BRL	BRL	1.8	BRL	BRL	1.3	BRL	BRL	1.8	2.1	78	1,200
Silver	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	3.4	78	1,200
Mercury by EPA Method 7471													
Mercury	0.026	0.055	0.052	0.012	0.028	0.022	0.018	0.024	0.029	0.051	1.0	2	10
Hexavalent Chromium by EPA Method 7196													
Hexavalent Chromium	<0.321	<0.324	0.571J	<0.320	<0.316	<0.317	<0.322	0.376	0.326J	<0.334	3.8	0.31	6.5

Concentrations in milligrams per kilogram (mg/kg) analogous to parts per million (ppm)
ft bgs = feet below the ground surface
IHSB = Inactive Hazardous Sites Branch
PSRG = Preliminary Soil Remediation Goals
BOLD = exceeds Protection of Groundwater PSRG
Underline = exceeds Residential Health Based PSRG
Shaded = exceed Industrial/Commercial Halth Based PSRG
J = the identification of the analyte is acceptable; the reported calue is an estimate
NA = Not Analyzed

Table 3
Summary of Soil Disposal Classification Analytical Results
Former Drexel Facility
70 Blue Ridge Street
Marion, McDowell County, North Carolina
ECS Project 49-3978-F

PARAMETER	ANALYTICAL RESULTS
Sample ID	**COMP**
Collection Date	4/23/19
Volatile Organic Compounds (VOCs) by EPA Method 8260D	
Benzene	26.2
Ethylbenzene	207
Toluene	635
Total Xylenes	1,170
Diesel Range Organics (DRO) by EPA Method 8015C	
C10-C28	163
Gasoline Range Organics (GRO) by EPA Method 8015C	
C6-C10	308

Concentrations in milligrams per kilogram (mg/kg) analogous to parts per million (ppm)
ft bgs = feet below the ground surface

APPENDIX A



Photograph 1: View of excavation activites.



Photograph 2: View of water in the base of the excavation on the western side.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-F



Photograph 3: View of the concrete slab and brick wall along the southern side of the excavation.



Photograph 4: View of the excavation facing west.

PHOTOGRAPH LOG

FORMER DREXEL FACILITY
70 BLUE RIDGE STREET
MARION, MCDOWELL COUNTY,
NORTH CAROLINA
ECS PROJECT: 49-3978-F



Photograph 3: View of the broken pipe.



Photograph 4: View of an intact pipe running along the concrete slab on the southern wall.

APPENDIX B

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

April 24, 2019

Jim Bevers
ECS Carolinas
1900 Hendersonville Road
Suite 10
Asheville, NC 28803

RE: Project: 49-39-78-F
Pace Project No.: 92425723

Dear Jim Bevers:
Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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Asheville, NC 28804
(828)254-7176

CERTIFICATIONS

Project: 49-39-78-F
Pace Project No.: 92425723

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 49-39-78-F
Pace Project No.: 92425723

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92425723001	**S1**	EPA 6020	CRT, FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723002	**S2**	EPA 6020	CRT, FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723003	**S3**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723004	**S4**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723005	**S5**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723006	**S6**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723007	**S7**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723008	**S8**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: 49-39-78-F
Pace Project No.: 92425723

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723009	**S9**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92425723010	**B1**	EPA 6020	FDV	7	PASI-O
		EPA 7471	AMS	1	PASI-O
		EPA 8270E	BPJ	74	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

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Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: 49-39-78-F
Pace Project No.: 92425723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92425723001	**S1**					
EPA 6020	Barium	43.4	mg/kg	1.5	04/23/19 13:24	
EPA 6020	Chromium	8.6	mg/kg	3.7	04/23/19 16:17	
EPA 6020	Lead	12.2	mg/kg	1.5	04/23/19 13:24	
EPA 7471	Mercury	0.026	mg/kg	0.012	04/22/19 13:51	
EPA 8260D	Benzene	1720	ug/kg	514	04/19/19 18:51	
EPA 8260D	n-Butylbenzene	855	ug/kg	514	04/19/19 18:51	
EPA 8260D	Ethylbenzene	5940	ug/kg	514	04/19/19 18:51	
EPA 8260D	Isopropylbenzene (Cumene)	718	ug/kg	514	04/19/19 18:51	
EPA 8260D	Naphthalene	2460	ug/kg	514	04/19/19 18:51	
EPA 8260D	n-Propylbenzene	2730	ug/kg	514	04/19/19 18:51	
EPA 8260D	Toluene	14700	ug/kg	514	04/19/19 18:51	
EPA 8260D	1,2,4-Trimethylbenzene	15200	ug/kg	514	04/19/19 18:51	M1
EPA 8260D	1,3,5-Trimethylbenzene	5040	ug/kg	514	04/19/19 18:51	
EPA 8260D	Xylene (Total)	29800	ug/kg	1030	04/19/19 18:51	
EPA 8260D	m&p-Xylene	21400	ug/kg	1030	04/19/19 18:51	
EPA 8260D	o-Xylene	8340	ug/kg	514	04/19/19 18:51	
ASTM D2974-87	Percent Moisture	20.1	%	0.10	04/18/19 14:11	
92425723002	**S2**					
EPA 6020	Barium	79.2	mg/kg	1.5	04/23/19 13:26	
EPA 6020	Chromium	16.1	mg/kg	3.8	04/23/19 16:19	
EPA 6020	Lead	13.9	mg/kg	1.5	04/23/19 13:26	
EPA 7471	Mercury	0.055	mg/kg	0.0098	04/22/19 13:53	
EPA 8260D	Benzene	625	ug/kg	119	04/19/19 18:02	
EPA 8260D	Ethylbenzene	440	ug/kg	119	04/19/19 18:02	
EPA 8260D	Naphthalene	239	ug/kg	119	04/19/19 18:02	
EPA 8260D	Toluene	2360	ug/kg	119	04/19/19 18:02	
EPA 8260D	1,2,4-Trimethylbenzene	505	ug/kg	119	04/19/19 18:02	
EPA 8260D	Xylene (Total)	2050	ug/kg	238	04/19/19 18:02	
EPA 8260D	m&p-Xylene	1490	ug/kg	238	04/19/19 18:02	
EPA 8260D	o-Xylene	561	ug/kg	119	04/19/19 18:02	
ASTM D2974-87	Percent Moisture	19.3	%	0.10	04/18/19 14:11	
92425723003	**S3**					
EPA 6020	Barium	58.5	mg/kg	1.4	04/23/19 13:29	
EPA 6020	Chromium	14.3	mg/kg	7.1	04/24/19 13:39	
EPA 6020	Lead	11.9	mg/kg	1.4	04/23/19 13:29	
EPA 7471	Mercury	0.052	mg/kg	0.011	04/22/19 13:59	
EPA 8260D	Benzene	381	ug/kg	115	04/19/19 18:26	
EPA 8260D	Ethylbenzene	299	ug/kg	115	04/19/19 18:26	
EPA 8260D	Naphthalene	133	ug/kg	115	04/19/19 18:26	
EPA 8260D	Toluene	900	ug/kg	115	04/19/19 18:26	
EPA 8260D	1,2,4-Trimethylbenzene	334	ug/kg	115	04/19/19 18:26	
EPA 8260D	Xylene (Total)	1070	ug/kg	230	04/19/19 18:26	
EPA 8260D	m&p-Xylene	810	ug/kg	230	04/19/19 18:26	
EPA 8260D	o-Xylene	259	ug/kg	115	04/19/19 18:26	
ASTM D2974-87	Percent Moisture	16.9	%	0.10	04/18/19 14:11	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: 49-39-78-F
Pace Project No.: 92425723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92425723004	**S4**					
EPA 6020	Barium	45.6	mg/kg	1.1	04/23/19 13:31	
EPA 6020	Chromium	13.3	mg/kg	5.5	04/24/19 13:40	
EPA 6020	Lead	12.7	mg/kg	1.1	04/23/19 13:31	
EPA 6020	Selenium	1.8	mg/kg	1.1	04/23/19 13:31	
EPA 7471	Mercury	0.012	mg/kg	0.0085	04/22/19 14:01	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	04/18/19 14:11	
92425723005	**S5**					
EPA 6020	Barium	58.1	mg/kg	1.3	04/23/19 13:34	
EPA 6020	Chromium	11.1	mg/kg	1.3	04/23/19 13:34	
EPA 6020	Lead	13.3	mg/kg	1.3	04/23/19 13:34	
EPA 7471	Mercury	0.028	mg/kg	0.0098	04/22/19 14:04	
EPA 8260D	Benzene	28.6	ug/kg	4.5	04/19/19 14:19	
EPA 8260D	Ethylbenzene	7.7	ug/kg	4.5	04/19/19 14:19	
ASTM D2974-87	Percent Moisture	17.4	%	0.10	04/18/19 14:11	
92425723006	**S6**					
EPA 6020	Barium	42.0	mg/kg	1.4	04/23/19 13:36	
EPA 6020	Chromium	14.0	mg/kg	7.2	04/24/19 13:44	
EPA 6020	Lead	11.1	mg/kg	1.4	04/23/19 13:36	
EPA 7471	Mercury	0.022	mg/kg	0.012	04/22/19 14:06	
ASTM D2974-87	Percent Moisture	18.1	%	0.10	04/18/19 14:11	
92425723007	**S7**					
EPA 6020	Barium	86.1	mg/kg	1.2	04/23/19 13:39	
EPA 6020	Chromium	23.1	mg/kg	6.0	04/24/19 13:45	
EPA 6020	Lead	15.9	mg/kg	1.2	04/23/19 13:39	
EPA 6020	Selenium	1.3	mg/kg	1.2	04/23/19 13:39	
EPA 7471	Mercury	0.018	mg/kg	0.0091	04/22/19 14:08	
EPA 8270E	Di-n-butylphthalate	462	ug/kg	423	04/19/19 17:04	
ASTM D2974-87	Percent Moisture	20.8	%	0.10	04/18/19 14:12	
92425723008	**S8**					
EPA 6020	Barium	58.5	mg/kg	1.4	04/23/19 13:41	
EPA 6020	Chromium	18.0	mg/kg	7.2	04/24/19 13:47	
EPA 6020	Lead	11.9	mg/kg	1.4	04/23/19 13:41	
EPA 7471	Mercury	0.024	mg/kg	0.012	04/22/19 14:16	
ASTM D2974-87	Percent Moisture	20.2	%	0.10	04/18/19 14:12	
92425723009	**S9**					
EPA 6020	Barium	62.2	mg/kg	1.5	04/23/19 13:43	
EPA 6020	Chromium	19.7	mg/kg	7.7	04/24/19 13:50	
EPA 6020	Lead	11.9	mg/kg	1.5	04/23/19 13:43	
EPA 7471	Mercury	0.029	mg/kg	0.011	04/22/19 14:19	
EPA 8270E	bis(2-Ethylhexyl)phthalate	632	ug/kg	434	04/19/19 18:13	
EPA 8260D	Benzene	8.5	ug/kg	5.3	04/19/19 15:58	
EPA 8260D	Ethylbenzene	10.7	ug/kg	5.3	04/19/19 15:58	
EPA 8260D	4-Methyl-2-pentanone (MIBK)	197	ug/kg	52.6	04/19/19 15:58	
EPA 8260D	n-Propylbenzene	9.2	ug/kg	5.3	04/19/19 15:58	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

SUMMARY OF DETECTION

Project: 49-39-78-F
Pace Project No.: 92425723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92425723009	**S9**					
EPA 8260D	Toluene	29.1	ug/kg	5.3	04/19/19 15:58	
EPA 8260D	1,2,4-Trimethylbenzene	10.2	ug/kg	5.3	04/19/19 15:58	
EPA 8260D	Xylene (Total)	41.3	ug/kg	10.5	04/19/19 15:58	
EPA 8260D	m&p-Xylene	31.8	ug/kg	10.5	04/19/19 15:58	
EPA 8260D	o-Xylene	9.4	ug/kg	5.3	04/19/19 15:58	
ASTM D2974-87	Percent Moisture	23.4	%	0.10	04/18/19 14:12	
92425723010	**B1**					
EPA 6020	Barium	65.9	mg/kg	1.4	04/23/19 13:46	
EPA 6020	Chromium	18.0	mg/kg	7.0	04/24/19 13:51	
EPA 6020	Lead	17.7	mg/kg	1.4	04/23/19 13:46	
EPA 6020	Selenium	1.8	mg/kg	1.4	04/23/19 13:46	
EPA 7471	Mercury	0.051	mg/kg	0.011	04/22/19 14:21	
EPA 8260D	Benzene	22.9	ug/kg	4.7	04/19/19 16:23	
ASTM D2974-87	Percent Moisture	25.0	%	0.10	04/18/19 14:12	

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Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S1 **Lab ID: 92425723001** Collected: 04/16/19 14:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	3.7	50	04/23/19 00:53	04/23/19 16:17	7440-38-2	
Barium	**43.4**	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:24	7440-39-3	
Cadmium	ND	mg/kg	0.18	20	04/23/19 00:53	04/23/19 13:24	7440-43-9	
Chromium	**8.6**	mg/kg	3.7	50	04/23/19 00:53	04/23/19 16:17	7440-47-3	
Lead	**12.2**	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:24	7439-92-1	
Selenium	ND	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:24	7782-49-2	
Silver	ND	mg/kg	0.18	20	04/23/19 00:53	04/23/19 13:24	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.026**	mg/kg	0.012	1	04/21/19 14:31	04/22/19 13:51	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	83-32-9	
Acenaphthylene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	208-96-8	
Aniline	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	62-53-3	
Anthracene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	120-12-7	
Benzo(a)anthracene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	56-55-3	
Benzo(a)pyrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	207-08-9	
Benzoic Acid	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	65-85-0	
Benzyl alcohol	ND	ug/kg	826	1	04/18/19 11:13	04/19/19 11:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	101-55-3	
Butylbenzylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	826	1	04/18/19 11:13	04/19/19 11:05	59-50-7	
4-Chloroaniline	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	111-44-4	
2-Chloronaphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	91-58-7	
2-Chlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	7005-72-3	
Chrysene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	53-70-3	
Dibenzofuran	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	120-83-2	
Diethylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	105-67-9	
Dimethylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	131-11-3	
Di-n-butylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	826	1	04/18/19 11:13	04/19/19 11:05	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S1 **Lab ID: 92425723001** Collected: 04/16/19 14:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	606-20-2	
Di-n-octylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	117-81-7	
Fluoranthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	206-44-0	
Fluorene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	87-68-3	
Hexachlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	77-47-4	
Hexachloroethane	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	193-39-5	
Isophorone	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	78-59-1	
1-Methylnaphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	90-12-0	
2-Methylnaphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	15831-10-4	
Naphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	91-20-3	
2-Nitroaniline	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	88-74-4	
3-Nitroaniline	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	99-09-2	
4-Nitroaniline	ND	ug/kg	826	1	04/18/19 11:13	04/19/19 11:05	100-01-6	
Nitrobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	98-95-3	
2-Nitrophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	88-75-5	
4-Nitrophenol	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	108-60-1	
Pentachlorophenol	ND	ug/kg	2060	1	04/18/19 11:13	04/19/19 11:05	87-86-5	v1
Phenanthrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	85-01-8	
Phenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	108-95-2	
Pyrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 11:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	46	%	23-110	1	04/18/19 11:13	04/19/19 11:05	4165-60-0	
2-Fluorobiphenyl (S)	40	%	30-110	1	04/18/19 11:13	04/19/19 11:05	321-60-8	
Terphenyl-d14 (S)	45	%	28-110	1	04/18/19 11:13	04/19/19 11:05	1718-51-0	
Phenol-d6 (S)	53	%	22-110	1	04/18/19 11:13	04/19/19 11:05	13127-88-3	
2-Fluorophenol (S)	52	%	13-110	1	04/18/19 11:13	04/19/19 11:05	367-12-4	
2,4,6-Tribromophenol (S)	66	%	27-110	1	04/18/19 11:13	04/19/19 11:05	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	10300	100	04/19/19 14:10	04/19/19 18:51	67-64-1	
Benzene	**1720**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S1 **Lab ID: 92425723001** Collected: 04/16/19 14:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	108-86-1	
Bromochloromethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	74-97-5	
Bromodichloromethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	75-27-4	
Bromoform	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	75-25-2	
Bromomethane	ND	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10300	100	04/19/19 14:10	04/19/19 18:51	78-93-3	M1
n-Butylbenzene	**855**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	98-06-6	
Carbon tetrachloride	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	56-23-5	
Chlorobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	108-90-7	
Chloroethane	ND	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	75-00-3	
Chloroform	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	67-66-3	
Chloromethane	ND	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	95-49-8	R1
4-Chlorotoluene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	96-12-8	
Dibromochloromethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	106-93-4	
Dibromomethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	10061-02-6	
Diisopropyl ether	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	108-20-3	
Ethylbenzene	**5940**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	87-68-3	
2-Hexanone	ND	ug/kg	5140	100	04/19/19 14:10	04/19/19 18:51	591-78-6	
Isopropylbenzene (Cumene)	**718**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	99-87-6	
Methylene Chloride	ND	ug/kg	2060	100	04/19/19 14:10	04/19/19 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	5140	100	04/19/19 14:10	04/19/19 18:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	1634-04-4	
Naphthalene	**2460**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	91-20-3	
n-Propylbenzene	**2730**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	103-65-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S1 **Lab ID: 92425723001** Collected: 04/16/19 14:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	79-34-5	
Tetrachloroethene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	127-18-4	
Toluene	**14700**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	79-00-5	
Trichloroethene	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	96-18-4	
1,2,4-Trimethylbenzene	**15200**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	95-63-6	M1
1,3,5-Trimethylbenzene	**5040**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	108-67-8	
Vinyl acetate	ND	ug/kg	5140	100	04/19/19 14:10	04/19/19 18:51	108-05-4	
Vinyl chloride	ND	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	75-01-4	
Xylene (Total)	**29800**	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	1330-20-7	
m&p-Xylene	**21400**	ug/kg	1030	100	04/19/19 14:10	04/19/19 18:51	179601-23-1	
o-Xylene	**8340**	ug/kg	514	100	04/19/19 14:10	04/19/19 18:51	95-47-6	
Surrogates								
Toluene-d8 (S)	91	%	70-130	100	04/19/19 14:10	04/19/19 18:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	100	04/19/19 14:10	04/19/19 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-132	100	04/19/19 14:10	04/19/19 18:51	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.1**	%	0.10	1		04/18/19 14:11		

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(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S2 **Lab ID: 92425723002** Collected: 04/16/19 14:45 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.5	100	04/23/19 00:53	04/24/19 13:38	7440-38-2	
Barium	**79.2**	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:26	7440-39-3	
Cadmium	ND	mg/kg	0.18	20	04/23/19 00:53	04/23/19 13:26	7440-43-9	
Chromium	**16.1**	mg/kg	3.8	50	04/23/19 00:53	04/23/19 16:19	7440-47-3	
Lead	**13.9**	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:26	7439-92-1	
Selenium	ND	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:26	7782-49-2	
Silver	ND	mg/kg	0.18	20	04/23/19 00:53	04/23/19 13:26	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.055**	mg/kg	0.0098	1	04/21/19 14:31	04/22/19 13:53	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	83-32-9	
Acenaphthylene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	208-96-8	
Aniline	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	62-53-3	
Anthracene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	120-12-7	
Benzo(a)anthracene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	207-08-9	
Benzoic Acid	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	65-85-0	
Benzyl alcohol	ND	ug/kg	807	1	04/18/19 11:13	04/19/19 11:39	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	101-55-3	
Butylbenzylphthalate	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	807	1	04/18/19 11:13	04/19/19 11:39	59-50-7	
4-Chloroaniline	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	111-44-4	
2-Chloronaphthalene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	91-58-7	
2-Chlorophenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	7005-72-3	
Chrysene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	53-70-3	
Dibenzofuran	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	120-83-2	
Diethylphthalate	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	105-67-9	
Dimethylphthalate	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	131-11-3	
Di-n-butylphthalate	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	807	1	04/18/19 11:13	04/19/19 11:39	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S2 **Lab ID: 92425723002** Collected: 04/16/19 14:45 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	606-20-2	
Di-n-octylphthalate	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	117-81-7	
Fluoranthene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	206-44-0	
Fluorene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	87-68-3	
Hexachlorobenzene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	77-47-4	
Hexachloroethane	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	193-39-5	
Isophorone	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	78-59-1	
1-Methylnaphthalene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	90-12-0	
2-Methylnaphthalene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	15831-10-4	
Naphthalene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	91-20-3	
2-Nitroaniline	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	88-74-4	
3-Nitroaniline	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	99-09-2	
4-Nitroaniline	ND	ug/kg	807	1	04/18/19 11:13	04/19/19 11:39	100-01-6	
Nitrobenzene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	98-95-3	
2-Nitrophenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	88-75-5	
4-Nitrophenol	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	108-60-1	
Pentachlorophenol	ND	ug/kg	2020	1	04/18/19 11:13	04/19/19 11:39	87-86-5	v1
Phenanthrene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	85-01-8	
Phenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	108-95-2	
Pyrene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	404	1	04/18/19 11:13	04/19/19 11:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	37	%	23-110	1	04/18/19 11:13	04/19/19 11:39	4165-60-0	
2-Fluorobiphenyl (S)	38	%	30-110	1	04/18/19 11:13	04/19/19 11:39	321-60-8	
Terphenyl-d14 (S)	55	%	28-110	1	04/18/19 11:13	04/19/19 11:39	1718-51-0	
Phenol-d6 (S)	44	%	22-110	1	04/18/19 11:13	04/19/19 11:39	13127-88-3	
2-Fluorophenol (S)	42	%	13-110	1	04/18/19 11:13	04/19/19 11:39	367-12-4	
2,4,6-Tribromophenol (S)	59	%	27-110	1	04/18/19 11:13	04/19/19 11:39	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	2380	25	04/19/19 14:10	04/19/19 18:02	67-64-1	
Benzene	**625**	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S2 **Lab ID: 92425723002** Collected: 04/16/19 14:45 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	108-86-1	
Bromochloromethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	74-97-5	
Bromodichloromethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	75-27-4	
Bromoform	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	75-25-2	
Bromomethane	ND	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2380	25	04/19/19 14:10	04/19/19 18:02	78-93-3	
n-Butylbenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	98-06-6	
Carbon tetrachloride	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	56-23-5	
Chlorobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	108-90-7	
Chloroethane	ND	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	75-00-3	
Chloroform	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	67-66-3	
Chloromethane	ND	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	96-12-8	
Dibromochloromethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	106-93-4	
Dibromomethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	10061-02-6	
Diisopropyl ether	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	108-20-3	
Ethylbenzene	**440**	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	87-68-3	
2-Hexanone	ND	ug/kg	1190	25	04/19/19 14:10	04/19/19 18:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	99-87-6	
Methylene Chloride	ND	ug/kg	475	25	04/19/19 14:10	04/19/19 18:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1190	25	04/19/19 14:10	04/19/19 18:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	1634-04-4	
Naphthalene	**239**	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	91-20-3	
n-Propylbenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	103-65-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S2 **Lab ID: 92425723002** Collected: 04/16/19 14:45 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	79-34-5	
Tetrachloroethene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	127-18-4	
Toluene	**2360**	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	79-00-5	
Trichloroethene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	96-18-4	
1,2,4-Trimethylbenzene	**505**	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	108-67-8	
Vinyl acetate	ND	ug/kg	1190	25	04/19/19 14:10	04/19/19 18:02	108-05-4	
Vinyl chloride	ND	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	75-01-4	
Xylene (Total)	**2050**	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	1330-20-7	
m&p-Xylene	**1490**	ug/kg	238	25	04/19/19 14:10	04/19/19 18:02	179601-23-1	
o-Xylene	**561**	ug/kg	119	25	04/19/19 14:10	04/19/19 18:02	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	25	04/19/19 14:10	04/19/19 18:02	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	25	04/19/19 14:10	04/19/19 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-132	25	04/19/19 14:10	04/19/19 18:02	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.3**	%	0.10	1		04/18/19 14:11		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S3 **Lab ID: 92425723003** Collected: 04/16/19 14:55 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.1	100	04/23/19 00:53	04/24/19 13:39	7440-38-2	
Barium	**58.5**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:29	7440-39-3	
Cadmium	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:29	7440-43-9	
Chromium	**14.3**	mg/kg	7.1	100	04/23/19 00:53	04/24/19 13:39	7440-47-3	
Lead	**11.9**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:29	7439-92-1	
Selenium	ND	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:29	7782-49-2	
Silver	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:29	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.052**	mg/kg	0.011	1	04/21/19 14:31	04/22/19 13:59	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	83-32-9	
Acenaphthylene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	208-96-8	
Aniline	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	62-53-3	
Anthracene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	207-08-9	
Benzoic Acid	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	65-85-0	
Benzyl alcohol	ND	ug/kg	783	1	04/18/19 11:13	04/19/19 12:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	101-55-3	
Butylbenzylphthalate	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	783	1	04/18/19 11:13	04/19/19 12:14	59-50-7	
4-Chloroaniline	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	111-44-4	
2-Chloronaphthalene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	91-58-7	
2-Chlorophenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	7005-72-3	
Chrysene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	53-70-3	
Dibenzofuran	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	120-83-2	
Diethylphthalate	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	105-67-9	
Dimethylphthalate	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	131-11-3	
Di-n-butylphthalate	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	783	1	04/18/19 11:13	04/19/19 12:14	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S3 **Lab ID: 92425723003** Collected: 04/16/19 14:55 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	606-20-2	
Di-n-octylphthalate	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	117-81-7	
Fluoranthene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	206-44-0	
Fluorene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	87-68-3	
Hexachlorobenzene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	77-47-4	
Hexachloroethane	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	193-39-5	
Isophorone	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	78-59-1	
1-Methylnaphthalene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	90-12-0	
2-Methylnaphthalene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	15831-10-4	
Naphthalene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	91-20-3	
2-Nitroaniline	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	88-74-4	
3-Nitroaniline	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	99-09-2	
4-Nitroaniline	ND	ug/kg	783	1	04/18/19 11:13	04/19/19 12:14	100-01-6	
Nitrobenzene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	98-95-3	
2-Nitrophenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	88-75-5	
4-Nitrophenol	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	108-60-1	
Pentachlorophenol	ND	ug/kg	1960	1	04/18/19 11:13	04/19/19 12:14	87-86-5	v1
Phenanthrene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	85-01-8	
Phenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	108-95-2	
Pyrene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	392	1	04/18/19 11:13	04/19/19 12:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	23-110	1	04/18/19 11:13	04/19/19 12:14	4165-60-0	
2-Fluorobiphenyl (S)	49	%	30-110	1	04/18/19 11:13	04/19/19 12:14	321-60-8	
Terphenyl-d14 (S)	60	%	28-110	1	04/18/19 11:13	04/19/19 12:14	1718-51-0	
Phenol-d6 (S)	55	%	22-110	1	04/18/19 11:13	04/19/19 12:14	13127-88-3	
2-Fluorophenol (S)	54	%	13-110	1	04/18/19 11:13	04/19/19 12:14	367-12-4	
2,4,6-Tribromophenol (S)	70	%	27-110	1	04/18/19 11:13	04/19/19 12:14	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	2300	25	04/19/19 14:10	04/19/19 18:26	67-64-1	
Benzene	**381**	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	71-43-2	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S3 **Lab ID: 92425723003** Collected: 04/16/19 14:55 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	108-86-1	
Bromochloromethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	74-97-5	
Bromodichloromethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	75-27-4	
Bromoform	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	75-25-2	
Bromomethane	ND	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	2300	25	04/19/19 14:10	04/19/19 18:26	78-93-3	
n-Butylbenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	56-23-5	
Chlorobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	108-90-7	
Chloroethane	ND	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	75-00-3	
Chloroform	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	67-66-3	
Chloromethane	ND	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	96-12-8	
Dibromochloromethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	106-93-4	
Dibromomethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	10061-02-6	
Diisopropyl ether	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	108-20-3	
Ethylbenzene	**299**	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	87-68-3	
2-Hexanone	ND	ug/kg	1150	25	04/19/19 14:10	04/19/19 18:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	99-87-6	
Methylene Chloride	ND	ug/kg	459	25	04/19/19 14:10	04/19/19 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1150	25	04/19/19 14:10	04/19/19 18:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	1634-04-4	
Naphthalene	**133**	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	91-20-3	
n-Propylbenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	103-65-1	

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(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S3 **Lab ID: 92425723003** Collected: 04/16/19 14:55 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	79-34-5	
Tetrachloroethene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	127-18-4	
Toluene	**900**	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	79-00-5	
Trichloroethene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	96-18-4	
1,2,4-Trimethylbenzene	**334**	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	108-67-8	
Vinyl acetate	ND	ug/kg	1150	25	04/19/19 14:10	04/19/19 18:26	108-05-4	
Vinyl chloride	ND	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	75-01-4	
Xylene (Total)	**1070**	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	1330-20-7	
m&p-Xylene	**810**	ug/kg	230	25	04/19/19 14:10	04/19/19 18:26	179601-23-1	
o-Xylene	**259**	ug/kg	115	25	04/19/19 14:10	04/19/19 18:26	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	25	04/19/19 14:10	04/19/19 18:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	25	04/19/19 14:10	04/19/19 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-132	25	04/19/19 14:10	04/19/19 18:26	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.9**	%	0.10	1		04/18/19 14:11		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S4 **Lab ID: 92425723004** Collected: 04/16/19 15:00 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	5.5	100	04/23/19 00:53	04/24/19 13:40	7440-38-2	
Barium	**45.6**	mg/kg	1.1	20	04/23/19 00:53	04/23/19 13:31	7440-39-3	
Cadmium	ND	mg/kg	0.13	20	04/23/19 00:53	04/23/19 13:31	7440-43-9	
Chromium	**13.3**	mg/kg	5.5	100	04/23/19 00:53	04/24/19 13:40	7440-47-3	
Lead	**12.7**	mg/kg	1.1	20	04/23/19 00:53	04/23/19 13:31	7439-92-1	
Selenium	**1.8**	mg/kg	1.1	20	04/23/19 00:53	04/23/19 13:31	7782-49-2	
Silver	ND	mg/kg	0.13	20	04/23/19 00:53	04/23/19 13:31	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.012**	mg/kg	0.0085	1	04/21/19 14:31	04/22/19 14:01	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	83-32-9	
Acenaphthylene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	208-96-8	
Aniline	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	62-53-3	
Anthracene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	207-08-9	
Benzoic Acid	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	65-85-0	
Benzyl alcohol	ND	ug/kg	803	1	04/18/19 11:13	04/19/19 12:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	101-55-3	
Butylbenzylphthalate	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	803	1	04/18/19 11:13	04/19/19 12:48	59-50-7	
4-Chloroaniline	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	111-44-4	
2-Chloronaphthalene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	91-58-7	
2-Chlorophenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	7005-72-3	
Chrysene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	53-70-3	
Dibenzofuran	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	120-83-2	
Diethylphthalate	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	105-67-9	
Dimethylphthalate	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	131-11-3	
Di-n-butylphthalate	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	803	1	04/18/19 11:13	04/19/19 12:48	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S4 **Lab ID: 92425723004** Collected: 04/16/19 15:00 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	606-20-2	
Di-n-octylphthalate	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	117-81-7	
Fluoranthene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	206-44-0	
Fluorene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	87-68-3	
Hexachlorobenzene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	77-47-4	
Hexachloroethane	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	193-39-5	
Isophorone	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	78-59-1	
1-Methylnaphthalene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	90-12-0	
2-Methylnaphthalene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	15831-10-4	
Naphthalene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	91-20-3	
2-Nitroaniline	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	88-74-4	
3-Nitroaniline	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	99-09-2	
4-Nitroaniline	ND	ug/kg	803	1	04/18/19 11:13	04/19/19 12:48	100-01-6	
Nitrobenzene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	98-95-3	
2-Nitrophenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	88-75-5	
4-Nitrophenol	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	108-60-1	
Pentachlorophenol	ND	ug/kg	2010	1	04/18/19 11:13	04/19/19 12:48	87-86-5	v1
Phenanthrene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	85-01-8	
Phenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	108-95-2	
Pyrene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	402	1	04/18/19 11:13	04/19/19 12:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	52	%	23-110	1	04/18/19 11:13	04/19/19 12:48	4165-60-0	
2-Fluorobiphenyl (S)	50	%	30-110	1	04/18/19 11:13	04/19/19 12:48	321-60-8	
Terphenyl-d14 (S)	58	%	28-110	1	04/18/19 11:13	04/19/19 12:48	1718-51-0	
Phenol-d6 (S)	58	%	22-110	1	04/18/19 11:13	04/19/19 12:48	13127-88-3	
2-Fluorophenol (S)	56	%	13-110	1	04/18/19 11:13	04/19/19 12:48	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110	1	04/18/19 11:13	04/19/19 12:48	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	85.8	1	04/19/19 12:55	04/19/19 13:55	67-64-1	
Benzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S4 **Lab ID: 92425723004** Collected: 04/16/19 15:00 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	75-27-4	
Bromoform	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	75-25-2	
Bromomethane	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	85.8	1	04/19/19 12:55	04/19/19 13:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	108-90-7	
Chloroethane	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	75-00-3	
Chloroform	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	67-66-3	
Chloromethane	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	87-68-3	
2-Hexanone	ND	ug/kg	42.9	1	04/19/19 12:55	04/19/19 13:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1	04/19/19 12:55	04/19/19 13:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.9	1	04/19/19 12:55	04/19/19 13:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	103-65-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S4 **Lab ID: 92425723004** Collected: 04/16/19 15:00 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	127-18-4	
Toluene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	108-67-8	
Vinyl acetate	ND	ug/kg	42.9	1	04/19/19 12:55	04/19/19 13:55	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1	04/19/19 12:55	04/19/19 13:55	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1	04/19/19 12:55	04/19/19 13:55	95-47-6	
Surrogates								
Toluene-d8 (S)	111	%	70-130	1	04/19/19 12:55	04/19/19 13:55	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1	04/19/19 12:55	04/19/19 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132	1	04/19/19 12:55	04/19/19 13:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.7**	%	0.10	1		04/18/19 14:11		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S5 **Lab ID: 92425723005** Collected: 04/16/19 15:05 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.3	20	04/23/19 00:53	04/23/19 13:34	7440-38-2	
Barium	**58.1**	mg/kg	1.3	20	04/23/19 00:53	04/23/19 13:34	7440-39-3	
Cadmium	ND	mg/kg	0.15	20	04/23/19 00:53	04/23/19 13:34	7440-43-9	
Chromium	**11.1**	mg/kg	1.3	20	04/23/19 00:53	04/23/19 13:34	7440-47-3	
Lead	**13.3**	mg/kg	1.3	20	04/23/19 00:53	04/23/19 13:34	7439-92-1	
Selenium	ND	mg/kg	1.3	20	04/23/19 00:53	04/23/19 13:34	7782-49-2	
Silver	ND	mg/kg	0.15	20	04/23/19 00:53	04/23/19 13:34	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.028**	mg/kg	0.0098	1	04/21/19 14:31	04/22/19 14:04	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	83-32-9	
Acenaphthylene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	208-96-8	
Aniline	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	62-53-3	
Anthracene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	207-08-9	
Benzoic Acid	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	65-85-0	
Benzyl alcohol	ND	ug/kg	799	1	04/18/19 11:13	04/19/19 13:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	101-55-3	
Butylbenzylphthalate	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	799	1	04/18/19 11:13	04/19/19 13:24	59-50-7	
4-Chloroaniline	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	111-44-4	
2-Chloronaphthalene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	91-58-7	
2-Chlorophenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	7005-72-3	
Chrysene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	53-70-3	
Dibenzofuran	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	120-83-2	
Diethylphthalate	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	105-67-9	
Dimethylphthalate	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	131-11-3	
Di-n-butylphthalate	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	799	1	04/18/19 11:13	04/19/19 13:24	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S5 **Lab ID: 92425723005** Collected: 04/16/19 15:05 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	606-20-2	
Di-n-octylphthalate	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	117-81-7	
Fluoranthene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	206-44-0	
Fluorene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	87-68-3	
Hexachlorobenzene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	77-47-4	
Hexachloroethane	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	193-39-5	
Isophorone	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	78-59-1	
1-Methylnaphthalene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	90-12-0	
2-Methylnaphthalene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	15831-10-4	
Naphthalene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	91-20-3	
2-Nitroaniline	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	88-74-4	
3-Nitroaniline	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	99-09-2	
4-Nitroaniline	ND	ug/kg	799	1	04/18/19 11:13	04/19/19 13:24	100-01-6	
Nitrobenzene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	98-95-3	
2-Nitrophenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	88-75-5	
4-Nitrophenol	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	108-60-1	
Pentachlorophenol	ND	ug/kg	2000	1	04/18/19 11:13	04/19/19 13:24	87-86-5	v1
Phenanthrene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	85-01-8	
Phenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	108-95-2	
Pyrene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	399	1	04/18/19 11:13	04/19/19 13:24	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	49	%	23-110	1	04/18/19 11:13	04/19/19 13:24	4165-60-0	
2-Fluorobiphenyl (S)	49	%	30-110	1	04/18/19 11:13	04/19/19 13:24	321-60-8	
Terphenyl-d14 (S)	57	%	28-110	1	04/18/19 11:13	04/19/19 13:24	1718-51-0	
Phenol-d6 (S)	53	%	22-110	1	04/18/19 11:13	04/19/19 13:24	13127-88-3	
2-Fluorophenol (S)	53	%	13-110	1	04/18/19 11:13	04/19/19 13:24	367-12-4	
2,4,6-Tribromophenol (S)	70	%	27-110	1	04/18/19 11:13	04/19/19 13:24	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	90.9	1	04/19/19 12:55	04/19/19 14:19	67-64-1	
Benzene	**28.6**	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	71-43-2	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S5 **Lab ID: 92425723005** Collected: 04/16/19 15:05 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	75-27-4	
Bromoform	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	75-25-2	
Bromomethane	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	90.9	1	04/19/19 12:55	04/19/19 14:19	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	108-90-7	
Chloroethane	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	75-00-3	
Chloroform	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	67-66-3	
Chloromethane	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	108-20-3	
Ethylbenzene	**7.7**	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	87-68-3	
2-Hexanone	ND	ug/kg	45.4	1	04/19/19 12:55	04/19/19 14:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1	04/19/19 12:55	04/19/19 14:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.4	1	04/19/19 12:55	04/19/19 14:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	103-65-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S5 **Lab ID: 92425723005** Collected: 04/16/19 15:05 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	127-18-4	
Toluene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	108-67-8	
Vinyl acetate	ND	ug/kg	45.4	1	04/19/19 12:55	04/19/19 14:19	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1	04/19/19 12:55	04/19/19 14:19	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1	04/19/19 12:55	04/19/19 14:19	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1	04/19/19 12:55	04/19/19 14:19	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1	04/19/19 12:55	04/19/19 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132	1	04/19/19 12:55	04/19/19 14:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.4**	%	0.10	1		04/18/19 14:11		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S6 **Lab ID: 92425723006** Collected: 04/16/19 15:10 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.2	100	04/23/19 00:53	04/24/19 13:44	7440-38-2	
Barium	**42.0**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:36	7440-39-3	
Cadmium	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:36	7440-43-9	
Chromium	**14.0**	mg/kg	7.2	100	04/23/19 00:53	04/24/19 13:44	7440-47-3	
Lead	**11.1**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:36	7439-92-1	
Selenium	ND	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:36	7782-49-2	
Silver	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:36	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.022**	mg/kg	0.012	1	04/21/19 14:31	04/22/19 14:06	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	83-32-9	
Acenaphthylene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	208-96-8	
Aniline	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	62-53-3	
Anthracene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	120-12-7	
Benzo(a)anthracene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	207-08-9	
Benzoic Acid	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	65-85-0	
Benzyl alcohol	ND	ug/kg	817	1	04/18/19 11:13	04/19/19 16:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	101-55-3	
Butylbenzylphthalate	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	817	1	04/18/19 11:13	04/19/19 16:30	59-50-7	
4-Chloroaniline	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	111-44-4	
2-Chloronaphthalene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	91-58-7	
2-Chlorophenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	7005-72-3	
Chrysene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	53-70-3	
Dibenzofuran	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	120-83-2	
Diethylphthalate	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	105-67-9	
Dimethylphthalate	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	131-11-3	
Di-n-butylphthalate	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	817	1	04/18/19 11:13	04/19/19 16:30	534-52-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S6 **Lab ID: 92425723006** Collected: 04/16/19 15:10 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	606-20-2	
Di-n-octylphthalate	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	117-81-7	
Fluoranthene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	206-44-0	
Fluorene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	87-68-3	
Hexachlorobenzene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	77-47-4	
Hexachloroethane	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	193-39-5	
Isophorone	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	78-59-1	
1-Methylnaphthalene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	90-12-0	
2-Methylnaphthalene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	15831-10-4	
Naphthalene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	99-09-2	
4-Nitroaniline	ND	ug/kg	817	1	04/18/19 11:13	04/19/19 16:30	100-01-6	
Nitrobenzene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	98-95-3	
2-Nitrophenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	108-60-1	
Pentachlorophenol	ND	ug/kg	2040	1	04/18/19 11:13	04/19/19 16:30	87-86-5	v1
Phenanthrene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	85-01-8	
Phenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	108-95-2	
Pyrene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	409	1	04/18/19 11:13	04/19/19 16:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	50	%	23-110	1	04/18/19 11:13	04/19/19 16:30	4165-60-0	
2-Fluorobiphenyl (S)	44	%	30-110	1	04/18/19 11:13	04/19/19 16:30	321-60-8	
Terphenyl-d14 (S)	57	%	28-110	1	04/18/19 11:13	04/19/19 16:30	1718-51-0	
Phenol-d6 (S)	52	%	22-110	1	04/18/19 11:13	04/19/19 16:30	13127-88-3	
2-Fluorophenol (S)	52	%	13-110	1	04/18/19 11:13	04/19/19 16:30	367-12-4	
2,4,6-Tribromophenol (S)	72	%	27-110	1	04/18/19 11:13	04/19/19 16:30	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	99.6	1	04/19/19 12:55	04/19/19 14:44	67-64-1	
Benzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S6 **Lab ID: 92425723006** Collected: 04/16/19 15:10 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	75-27-4	
Bromoform	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	75-25-2	
Bromomethane	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	99.6	1	04/19/19 12:55	04/19/19 14:44	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	108-90-7	
Chloroethane	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	75-00-3	
Chloroform	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	67-66-3	
Chloromethane	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	87-68-3	
2-Hexanone	ND	ug/kg	49.8	1	04/19/19 12:55	04/19/19 14:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	99-87-6	
Methylene Chloride	ND	ug/kg	19.9	1	04/19/19 12:55	04/19/19 14:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.8	1	04/19/19 12:55	04/19/19 14:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	103-65-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S6 **Lab ID: 92425723006** Collected: 04/16/19 15:10 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	127-18-4	
Toluene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	108-67-8	
Vinyl acetate	ND	ug/kg	49.8	1	04/19/19 12:55	04/19/19 14:44	108-05-4	
Vinyl chloride	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	75-01-4	
Xylene (Total)	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	1330-20-7	
m&p-Xylene	ND	ug/kg	10	1	04/19/19 12:55	04/19/19 14:44	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1	04/19/19 12:55	04/19/19 14:44	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1	04/19/19 12:55	04/19/19 14:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1	04/19/19 12:55	04/19/19 14:44	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132	1	04/19/19 12:55	04/19/19 14:44	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.1**	%	0.10	1		04/18/19 14:11		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S7 **Lab ID: 92425723007** Collected: 04/16/19 15:15 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	6.0	100	04/23/19 00:53	04/24/19 13:45	7440-38-2	
Barium	**86.1**	mg/kg	1.2	20	04/23/19 00:53	04/23/19 13:39	7440-39-3	
Cadmium	ND	mg/kg	0.14	20	04/23/19 00:53	04/23/19 13:39	7440-43-9	
Chromium	**23.1**	mg/kg	6.0	100	04/23/19 00:53	04/24/19 13:45	7440-47-3	
Lead	**15.9**	mg/kg	1.2	20	04/23/19 00:53	04/23/19 13:39	7439-92-1	
Selenium	**1.3**	mg/kg	1.2	20	04/23/19 00:53	04/23/19 13:39	7782-49-2	
Silver	ND	mg/kg	0.14	20	04/23/19 00:53	04/23/19 13:39	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.018**	mg/kg	0.0091	1	04/21/19 14:31	04/22/19 14:08	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	83-32-9	
Acenaphthylene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	208-96-8	
Aniline	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	62-53-3	
Anthracene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	120-12-7	
Benzo(a)anthracene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	56-55-3	
Benzo(a)pyrene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	207-08-9	
Benzoic Acid	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	65-85-0	
Benzyl alcohol	ND	ug/kg	845	1	04/18/19 11:13	04/19/19 17:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	845	1	04/18/19 11:13	04/19/19 17:04	59-50-7	
4-Chloroaniline	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	111-44-4	
2-Chloronaphthalene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	91-58-7	
2-Chlorophenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	7005-72-3	
Chrysene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	53-70-3	
Dibenzofuran	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	120-83-2	
Diethylphthalate	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	105-67-9	
Dimethylphthalate	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	131-11-3	
Di-n-butylphthalate	**462**	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	845	1	04/18/19 11:13	04/19/19 17:04	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S7 **Lab ID: 92425723007** Collected: 04/16/19 15:15 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	117-81-7	
Fluoranthene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	206-44-0	
Fluorene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	77-47-4	
Hexachloroethane	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	193-39-5	
Isophorone	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	78-59-1	
1-Methylnaphthalene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	15831-10-4	
Naphthalene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	91-20-3	
2-Nitroaniline	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	88-74-4	
3-Nitroaniline	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	99-09-2	
4-Nitroaniline	ND	ug/kg	845	1	04/18/19 11:13	04/19/19 17:04	100-01-6	
Nitrobenzene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	98-95-3	
2-Nitrophenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	88-75-5	
4-Nitrophenol	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	108-60-1	
Pentachlorophenol	ND	ug/kg	2110	1	04/18/19 11:13	04/19/19 17:04	87-86-5	v1
Phenanthrene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	85-01-8	
Phenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	108-95-2	
Pyrene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	423	1	04/18/19 11:13	04/19/19 17:04	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	45	%	23-110	1	04/18/19 11:13	04/19/19 17:04	4165-60-0	
2-Fluorobiphenyl (S)	45	%	30-110	1	04/18/19 11:13	04/19/19 17:04	321-60-8	
Terphenyl-d14 (S)	56	%	28-110	1	04/18/19 11:13	04/19/19 17:04	1718-51-0	
Phenol-d6 (S)	49	%	22-110	1	04/18/19 11:13	04/19/19 17:04	13127-88-3	
2-Fluorophenol (S)	48	%	13-110	1	04/18/19 11:13	04/19/19 17:04	367-12-4	
2,4,6-Tribromophenol (S)	71	%	27-110	1	04/18/19 11:13	04/19/19 17:04	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	104	1	04/19/19 12:55	04/19/19 15:09	67-64-1	
Benzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S7 **Lab ID: 92425723007** Collected: 04/16/19 15:15 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	75-27-4	
Bromoform	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	75-25-2	
Bromomethane	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	104	1	04/19/19 12:55	04/19/19 15:09	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	108-90-7	
Chloroethane	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	75-00-3	
Chloroform	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	67-66-3	
Chloromethane	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	87-68-3	
2-Hexanone	ND	ug/kg	51.8	1	04/19/19 12:55	04/19/19 15:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1	04/19/19 12:55	04/19/19 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.8	1	04/19/19 12:55	04/19/19 15:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	103-65-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S7 **Lab ID: 92425723007** Collected: 04/16/19 15:15 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	127-18-4	
Toluene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	108-67-8	
Vinyl acetate	ND	ug/kg	51.8	1	04/19/19 12:55	04/19/19 15:09	108-05-4	
Vinyl chloride	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1	04/19/19 12:55	04/19/19 15:09	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1	04/19/19 12:55	04/19/19 15:09	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1	04/19/19 12:55	04/19/19 15:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1	04/19/19 12:55	04/19/19 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132	1	04/19/19 12:55	04/19/19 15:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.8**	%	0.10	1		04/18/19 14:12		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S8 **Lab ID: 92425723008** Collected: 04/16/19 15:20 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.2	100	04/23/19 00:53	04/24/19 13:47	7440-38-2	
Barium	**58.5**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:41	7440-39-3	
Cadmium	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:41	7440-43-9	
Chromium	**18.0**	mg/kg	7.2	100	04/23/19 00:53	04/24/19 13:47	7440-47-3	
Lead	**11.9**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:41	7439-92-1	
Selenium	ND	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:41	7782-49-2	
Silver	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:41	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.024**	mg/kg	0.012	1	04/21/19 14:31	04/22/19 14:16	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	83-32-9	
Acenaphthylene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	208-96-8	
Aniline	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	62-53-3	
Anthracene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	120-12-7	
Benzo(a)anthracene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	56-55-3	
Benzo(a)pyrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	207-08-9	
Benzoic Acid	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	65-85-0	
Benzyl alcohol	ND	ug/kg	827	1	04/18/19 11:13	04/19/19 17:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	101-55-3	
Butylbenzylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	827	1	04/18/19 11:13	04/19/19 17:38	59-50-7	
4-Chloroaniline	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	111-44-4	
2-Chloronaphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	91-58-7	
2-Chlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	7005-72-3	
Chrysene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	53-70-3	
Dibenzofuran	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	120-83-2	
Diethylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	105-67-9	
Dimethylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	827	1	04/18/19 11:13	04/19/19 17:38	534-52-1	

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S8 **Lab ID: 92425723008** Collected: 04/16/19 15:20 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	117-81-7	
Fluoranthene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	206-44-0	
Fluorene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	77-47-4	
Hexachloroethane	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	193-39-5	
Isophorone	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	78-59-1	
1-Methylnaphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	15831-10-4	
Naphthalene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	91-20-3	
2-Nitroaniline	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	88-74-4	
3-Nitroaniline	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	99-09-2	
4-Nitroaniline	ND	ug/kg	827	1	04/18/19 11:13	04/19/19 17:38	100-01-6	
Nitrobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	98-95-3	
2-Nitrophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	88-75-5	
4-Nitrophenol	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	108-60-1	
Pentachlorophenol	ND	ug/kg	2070	1	04/18/19 11:13	04/19/19 17:38	87-86-5	v1
Phenanthrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	85-01-8	
Phenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	108-95-2	
Pyrene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	413	1	04/18/19 11:13	04/19/19 17:38	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	47	%	23-110	1	04/18/19 11:13	04/19/19 17:38	4165-60-0	
2-Fluorobiphenyl (S)	41	%	30-110	1	04/18/19 11:13	04/19/19 17:38	321-60-8	
Terphenyl-d14 (S)	56	%	28-110	1	04/18/19 11:13	04/19/19 17:38	1718-51-0	
Phenol-d6 (S)	50	%	22-110	1	04/18/19 11:13	04/19/19 17:38	13127-88-3	
2-Fluorophenol (S)	49	%	13-110	1	04/18/19 11:13	04/19/19 17:38	367-12-4	
2,4,6-Tribromophenol (S)	69	%	27-110	1	04/18/19 11:13	04/19/19 17:38	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	92.5	1	04/19/19 12:55	04/19/19 15:33	67-64-1	
Benzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	71-43-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S8 **Lab ID: 92425723008** Collected: 04/16/19 15:20 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	75-27-4	
Bromoform	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	75-25-2	
Bromomethane	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.5	1	04/19/19 12:55	04/19/19 15:33	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	108-90-7	
Chloroethane	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	75-00-3	
Chloroform	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	67-66-3	
Chloromethane	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	87-68-3	
2-Hexanone	ND	ug/kg	46.3	1	04/19/19 12:55	04/19/19 15:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1	04/19/19 12:55	04/19/19 15:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.3	1	04/19/19 12:55	04/19/19 15:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	103-65-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S8 **Lab ID: 92425723008** Collected: 04/16/19 15:20 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	127-18-4	
Toluene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	108-67-8	
Vinyl acetate	ND	ug/kg	46.3	1	04/19/19 12:55	04/19/19 15:33	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1	04/19/19 12:55	04/19/19 15:33	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1	04/19/19 12:55	04/19/19 15:33	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1	04/19/19 12:55	04/19/19 15:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1	04/19/19 12:55	04/19/19 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-132	1	04/19/19 12:55	04/19/19 15:33	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.2**	%	0.10	1		04/18/19 14:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S9 **Lab ID: 92425723009** Collected: 04/16/19 15:25 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.7	100	04/23/19 00:53	04/24/19 13:50	7440-38-2	
Barium	**62.2**	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:43	7440-39-3	
Cadmium	ND	mg/kg	0.19	20	04/23/19 00:53	04/23/19 13:43	7440-43-9	
Chromium	**19.7**	mg/kg	7.7	100	04/23/19 00:53	04/24/19 13:50	7440-47-3	
Lead	**11.9**	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:43	7439-92-1	
Selenium	ND	mg/kg	1.5	20	04/23/19 00:53	04/23/19 13:43	7782-49-2	
Silver	ND	mg/kg	0.19	20	04/23/19 00:53	04/23/19 13:43	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.029**	mg/kg	0.011	1	04/21/19 14:31	04/22/19 14:19	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	83-32-9	
Acenaphthylene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	208-96-8	
Aniline	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	62-53-3	
Anthracene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	120-12-7	
Benzo(a)anthracene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	56-55-3	
Benzo(a)pyrene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	207-08-9	
Benzoic Acid	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	65-85-0	
Benzyl alcohol	ND	ug/kg	867	1	04/18/19 11:13	04/19/19 18:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	101-55-3	
Butylbenzylphthalate	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	867	1	04/18/19 11:13	04/19/19 18:13	59-50-7	
4-Chloroaniline	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	111-44-4	
2-Chloronaphthalene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	91-58-7	
2-Chlorophenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	7005-72-3	
Chrysene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	53-70-3	
Dibenzofuran	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	120-83-2	
Diethylphthalate	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	105-67-9	
Dimethylphthalate	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	131-11-3	
Di-n-butylphthalate	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	867	1	04/18/19 11:13	04/19/19 18:13	534-52-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S9 **Lab ID: 92425723009** Collected: 04/16/19 15:25 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	606-20-2	
Di-n-octylphthalate	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	117-84-0	
bis(2-Ethylhexyl)phthalate	**632**	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	117-81-7	
Fluoranthene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	206-44-0	
Fluorene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	87-68-3	
Hexachlorobenzene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	77-47-4	
Hexachloroethane	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	193-39-5	
Isophorone	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	78-59-1	
1-Methylnaphthalene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	90-12-0	
2-Methylnaphthalene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	15831-10-4	
Naphthalene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	91-20-3	
2-Nitroaniline	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	88-74-4	
3-Nitroaniline	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	99-09-2	
4-Nitroaniline	ND	ug/kg	867	1	04/18/19 11:13	04/19/19 18:13	100-01-6	
Nitrobenzene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	98-95-3	
2-Nitrophenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	88-75-5	
4-Nitrophenol	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	108-60-1	
Pentachlorophenol	ND	ug/kg	2170	1	04/18/19 11:13	04/19/19 18:13	87-86-5	v1
Phenanthrene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	85-01-8	
Phenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	108-95-2	
Pyrene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	434	1	04/18/19 11:13	04/19/19 18:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	36	%	23-110	1	04/18/19 11:13	04/19/19 18:13	4165-60-0	
2-Fluorobiphenyl (S)	35	%	30-110	1	04/18/19 11:13	04/19/19 18:13	321-60-8	
Terphenyl-d14 (S)	50	%	28-110	1	04/18/19 11:13	04/19/19 18:13	1718-51-0	
Phenol-d6 (S)	49	%	22-110	1	04/18/19 11:13	04/19/19 18:13	13127-88-3	
2-Fluorophenol (S)	47	%	13-110	1	04/18/19 11:13	04/19/19 18:13	367-12-4	
2,4,6-Tribromophenol (S)	65	%	27-110	1	04/18/19 11:13	04/19/19 18:13	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	105	1	04/19/19 12:55	04/19/19 15:58	67-64-1	
Benzene	**8.5**	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	71-43-2	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S9 **Lab ID: 92425723009** Collected: 04/16/19 15:25 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	75-27-4	
Bromoform	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	75-25-2	
Bromomethane	ND	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	105	1	04/19/19 12:55	04/19/19 15:58	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	108-90-7	
Chloroethane	ND	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	75-00-3	
Chloroform	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	67-66-3	
Chloromethane	ND	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	108-20-3	
Ethylbenzene	**10.7**	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	87-68-3	
2-Hexanone	ND	ug/kg	52.6	1	04/19/19 12:55	04/19/19 15:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	99-87-6	
Methylene Chloride	ND	ug/kg	21.1	1	04/19/19 12:55	04/19/19 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**197**	ug/kg	52.6	1	04/19/19 12:55	04/19/19 15:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	91-20-3	
n-Propylbenzene	**9.2**	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	103-65-1	

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: S9 **Lab ID: 92425723009** Collected: 04/16/19 15:25 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	127-18-4	
Toluene	**29.1**	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	96-18-4	
1,2,4-Trimethylbenzene	**10.2**	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	108-67-8	
Vinyl acetate	ND	ug/kg	52.6	1	04/19/19 12:55	04/19/19 15:58	108-05-4	
Vinyl chloride	ND	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	75-01-4	
Xylene (Total)	**41.3**	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	1330-20-7	
m&p-Xylene	**31.8**	ug/kg	10.5	1	04/19/19 12:55	04/19/19 15:58	179601-23-1	
o-Xylene	**9.4**	ug/kg	5.3	1	04/19/19 12:55	04/19/19 15:58	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%	70-130	1	04/19/19 12:55	04/19/19 15:58	2037-26-5	
4-Bromofluorobenzene (S)	128	%	70-130	1	04/19/19 12:55	04/19/19 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-132	1	04/19/19 12:55	04/19/19 15:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.4**	%	0.10	1		04/18/19 14:12		

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ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: B1 **Lab ID: 92425723010** Collected: 04/16/19 15:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.0	100	04/23/19 00:53	04/24/19 13:51	7440-38-2	
Barium	**65.9**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:46	7440-39-3	
Cadmium	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:46	7440-43-9	
Chromium	**18.0**	mg/kg	7.0	100	04/23/19 00:53	04/24/19 13:51	7440-47-3	
Lead	**17.7**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:46	7439-92-1	
Selenium	**1.8**	mg/kg	1.4	20	04/23/19 00:53	04/23/19 13:46	7782-49-2	
Silver	ND	mg/kg	0.17	20	04/23/19 00:53	04/23/19 13:46	7440-22-4	N2
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.051**	mg/kg	0.011	1	04/21/19 14:31	04/22/19 14:21	7439-97-6	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	83-32-9	
Acenaphthylene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	208-96-8	
Aniline	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	62-53-3	
Anthracene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	120-12-7	
Benzo(a)anthracene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	56-55-3	
Benzo(a)pyrene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	207-08-9	
Benzoic Acid	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	65-85-0	
Benzyl alcohol	ND	ug/kg	872	1	04/18/19 11:13	04/22/19 12:10	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	101-55-3	
Butylbenzylphthalate	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	872	1	04/18/19 11:13	04/22/19 12:10	59-50-7	
4-Chloroaniline	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	111-44-4	
2-Chloronaphthalene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	91-58-7	
2-Chlorophenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	7005-72-3	
Chrysene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	53-70-3	
Dibenzofuran	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	120-83-2	
Diethylphthalate	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	105-67-9	
Dimethylphthalate	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	131-11-3	
Di-n-butylphthalate	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	872	1	04/18/19 11:13	04/22/19 12:10	534-52-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: B1 **Lab ID: 92425723010** Collected: 04/16/19 15:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546							
2,4-Dinitrophenol	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	606-20-2	
Di-n-octylphthalate	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	117-81-7	
Fluoranthene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	206-44-0	
Fluorene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	87-68-3	
Hexachlorobenzene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	77-47-4	
Hexachloroethane	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	193-39-5	
Isophorone	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	78-59-1	
1-Methylnaphthalene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	90-12-0	
2-Methylnaphthalene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	15831-10-4	
Naphthalene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	91-20-3	
2-Nitroaniline	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	88-74-4	
3-Nitroaniline	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	99-09-2	
4-Nitroaniline	ND	ug/kg	872	1	04/18/19 11:13	04/22/19 12:10	100-01-6	
Nitrobenzene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	98-95-3	
2-Nitrophenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	88-75-5	
4-Nitrophenol	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	108-60-1	
Pentachlorophenol	ND	ug/kg	2180	1	04/18/19 11:13	04/22/19 12:10	87-86-5	
Phenanthrene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	85-01-8	
Phenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	108-95-2	
Pyrene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	436	1	04/18/19 11:13	04/22/19 12:10	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	47	%	23-110	1	04/18/19 11:13	04/22/19 12:10	4165-60-0	
2-Fluorobiphenyl (S)	45	%	30-110	1	04/18/19 11:13	04/22/19 12:10	321-60-8	
Terphenyl-d14 (S)	28	%	28-110	1	04/18/19 11:13	04/22/19 12:10	1718-51-0	
Phenol-d6 (S)	51	%	22-110	1	04/18/19 11:13	04/22/19 12:10	13127-88-3	
2-Fluorophenol (S)	50	%	13-110	1	04/18/19 11:13	04/22/19 12:10	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110	1	04/18/19 11:13	04/22/19 12:10	118-79-6	
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Acetone	ND	ug/kg	93.8	1	04/19/19 12:55	04/19/19 16:23	67-64-1	
Benzene	**22.9**	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	71-43-2	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: B1 **Lab ID: 92425723010** Collected: 04/16/19 15:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Bromobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	75-27-4	
Bromoform	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	75-25-2	
Bromomethane	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.8	1	04/19/19 12:55	04/19/19 16:23	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	108-90-7	
Chloroethane	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	75-00-3	
Chloroform	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	67-66-3	
Chloromethane	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	87-68-3	
2-Hexanone	ND	ug/kg	46.9	1	04/19/19 12:55	04/19/19 16:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1	04/19/19 12:55	04/19/19 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.9	1	04/19/19 12:55	04/19/19 16:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	103-65-1	

REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

ANALYTICAL RESULTS

Project: 49-39-78-F
Pace Project No.: 92425723

Sample: B1 **Lab ID: 92425723010** Collected: 04/16/19 15:30 Received: 04/17/19 08:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	127-18-4	
Toluene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	108-67-8	
Vinyl acetate	ND	ug/kg	46.9	1	04/19/19 12:55	04/19/19 16:23	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1	04/19/19 12:55	04/19/19 16:23	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1	04/19/19 12:55	04/19/19 16:23	95-47-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1	04/19/19 12:55	04/19/19 16:23	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1	04/19/19 12:55	04/19/19 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-132	1	04/19/19 12:55	04/19/19 16:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.0**	%	0.10	1		04/18/19 14:12		

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QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

QC Batch: 532611 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

METHOD BLANK: 2885647 Matrix: Solid
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0065	04/22/19 13:08	

LABORATORY CONTROL SAMPLE: 2885648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.069	0.068	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2885649 2885650

Parameter	Units	35461242001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	0.049	0.151	0.117	0.14	0.15	64	84	80-120	1	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

QC Batch: 532893 Analysis Method: EPA 6020
QC Batch Method: EPA 3050 Analysis Description: 6020 MET SOLID
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

METHOD BLANK: 2886975 Matrix: Solid
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	04/23/19 09:54	
Barium	mg/kg	ND	1.0	04/23/19 13:04	
Cadmium	mg/kg	ND	0.12	04/23/19 13:04	
Chromium	mg/kg	ND	1.0	04/23/19 13:04	
Lead	mg/kg	ND	1.0	04/23/19 13:04	
Selenium	mg/kg	ND	1.0	04/23/19 13:04	
Silver	mg/kg	ND	0.12	04/23/19 13:04	N2

LABORATORY CONTROL SAMPLE: 2886976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	26.2	27.6	105	80-120	
Barium	mg/kg	26.2	28.0	107	80-120	
Cadmium	mg/kg	2.6	2.8	108	80-120	
Chromium	mg/kg	26.2	27.1	103	80-120	
Lead	mg/kg	26.2	27.7	106	80-120	
Selenium	mg/kg	26.2	27.9	106	80-120	
Silver	mg/kg	2.6	2.9	110	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2887103 2887104

Parameter	Units	35462806001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	3.1	29.2	28.5	32.6	32.5	101	103	75-125	0	
Barium	mg/kg	2.6	29.2	28.5	33.2	33.9	105	110	75-125	2	
Cadmium	mg/kg	0.057U	2.88	2.88	3.1	3.1	105	109	75-125	1	
Chromium	mg/kg	4.4	29.2	28.5	34.3	34.6	103	106	75-125	1	
Lead	mg/kg	1.5	29.2	28.5	31.6	32.1	103	107	75-125	2	
Selenium	mg/kg	0.97J	29.2	28.5	30.4	31.2	101	106	75-125	3	
Silver	mg/kg	0.040U	2.88	2.88	3.1	3.2	107	112	75-125	2	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

QC Batch: 470500 Analysis Method: EPA 8260D
QC Batch Method: EPA 5035A Analysis Description: 8260D MSV 5035A Volatile Organics
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

METHOD BLANK: 2554428 Matrix: Solid
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/19/19 10:49	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/19/19 10:49	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/19/19 10:49	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/19/19 10:49	
1,1-Dichloroethane	ug/kg	ND	5.0	04/19/19 10:49	
1,1-Dichloroethene	ug/kg	ND	5.0	04/19/19 10:49	
1,1-Dichloropropene	ug/kg	ND	5.0	04/19/19 10:49	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/19/19 10:49	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/19/19 10:49	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/19/19 10:49	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	04/19/19 10:49	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/19/19 10:49	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/19/19 10:49	
1,2-Dichloroethane	ug/kg	ND	5.0	04/19/19 10:49	
1,2-Dichloropropane	ug/kg	ND	5.0	04/19/19 10:49	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/19/19 10:49	
1,3-Dichloropropane	ug/kg	ND	5.0	04/19/19 10:49	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/19/19 10:49	
2,2-Dichloropropane	ug/kg	ND	5.0	04/19/19 10:49	
2-Butanone (MEK)	ug/kg	ND	100	04/19/19 10:49	
2-Chlorotoluene	ug/kg	ND	5.0	04/19/19 10:49	
2-Hexanone	ug/kg	ND	50.0	04/19/19 10:49	
4-Chlorotoluene	ug/kg	ND	5.0	04/19/19 10:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	04/19/19 10:49	
Acetone	ug/kg	ND	100	04/19/19 10:49	
Benzene	ug/kg	ND	5.0	04/19/19 10:49	
Bromobenzene	ug/kg	ND	5.0	04/19/19 10:49	
Bromochloromethane	ug/kg	ND	5.0	04/19/19 10:49	
Bromodichloromethane	ug/kg	ND	5.0	04/19/19 10:49	
Bromoform	ug/kg	ND	5.0	04/19/19 10:49	
Bromomethane	ug/kg	ND	10.0	04/19/19 10:49	
Carbon tetrachloride	ug/kg	ND	5.0	04/19/19 10:49	
Chlorobenzene	ug/kg	ND	5.0	04/19/19 10:49	
Chloroethane	ug/kg	ND	10.0	04/19/19 10:49	
Chloroform	ug/kg	ND	5.0	04/19/19 10:49	
Chloromethane	ug/kg	ND	10.0	04/19/19 10:49	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/19/19 10:49	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/19/19 10:49	

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(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

METHOD BLANK: 2554428 Matrix: Solid

Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	04/19/19 10:49	
Dibromomethane	ug/kg	ND	5.0	04/19/19 10:49	
Dichlorodifluoromethane	ug/kg	ND	10.0	04/19/19 10:49	
Diisopropyl ether	ug/kg	ND	5.0	04/19/19 10:49	
Ethylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/19/19 10:49	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/19/19 10:49	
m&p-Xylene	ug/kg	ND	10.0	04/19/19 10:49	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/19/19 10:49	
Methylene Chloride	ug/kg	ND	20.0	04/19/19 10:49	
n-Butylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
n-Propylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
Naphthalene	ug/kg	ND	5.0	04/19/19 10:49	
o-Xylene	ug/kg	ND	5.0	04/19/19 10:49	
p-Isopropyltoluene	ug/kg	ND	5.0	04/19/19 10:49	
sec-Butylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
Styrene	ug/kg	ND	5.0	04/19/19 10:49	
tert-Butylbenzene	ug/kg	ND	5.0	04/19/19 10:49	
Tetrachloroethene	ug/kg	ND	5.0	04/19/19 10:49	
Toluene	ug/kg	ND	5.0	04/19/19 10:49	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/19/19 10:49	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/19/19 10:49	
Trichloroethene	ug/kg	ND	5.0	04/19/19 10:49	
Trichlorofluoromethane	ug/kg	ND	5.0	04/19/19 10:49	
Vinyl acetate	ug/kg	ND	50.0	04/19/19 10:49	
Vinyl chloride	ug/kg	ND	10.0	04/19/19 10:49	
Xylene (Total)	ug/kg	ND	10.0	04/19/19 10:49	
1,2-Dichloroethane-d4 (S)	%	95	70-132	04/19/19 10:49	
4-Bromofluorobenzene (S)	%	101	70-130	04/19/19 10:49	
Toluene-d8 (S)	%	103	70-130	04/19/19 10:49	

LABORATORY CONTROL SAMPLE: 2554429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	56.6	113	70-130	
1,1,1-Trichloroethane	ug/kg	50	52.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.7	101	55-130	
1,1,2-Trichloroethane	ug/kg	50	52.6	105	70-130	
1,1-Dichloroethane	ug/kg	50	55.5	111	68-130	
1,1-Dichloroethene	ug/kg	50	55.0	110	70-130	
1,1-Dichloropropene	ug/kg	50	50.8	102	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	54.9	110	70-130	
1,2,3-Trichloropropane	ug/kg	50	51.6	103	70-130	

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(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

LABORATORY CONTROL SAMPLE: 2554429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	50	53.7	107	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	51.9	104	69-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	57.7	115	57-141	
1,2-Dibromoethane (EDB)	ug/kg	50	53.0	106	70-130	
1,2-Dichlorobenzene	ug/kg	50	52.1	104	70-130	
1,2-Dichloroethane	ug/kg	50	50.3	101	70-130	
1,2-Dichloropropane	ug/kg	50	51.7	103	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	52.6	105	70-130	
1,3-Dichlorobenzene	ug/kg	50	52.3	105	70-130	
1,3-Dichloropropane	ug/kg	50	53.0	106	70-130	
1,4-Dichlorobenzene	ug/kg	50	51.0	102	70-130	
2,2-Dichloropropane	ug/kg	50	53.7	107	70-130	
2-Butanone (MEK)	ug/kg	100	107	107	60-130	
2-Chlorotoluene	ug/kg	50	49.4	99	70-130	
2-Hexanone	ug/kg	100	112	112	70-132	
4-Chlorotoluene	ug/kg	50	52.1	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	108	108	69-130	
Acetone	ug/kg	100	99.8J	100	49-148	
Benzene	ug/kg	50	53.0	106	70-130	
Bromobenzene	ug/kg	50	54.0	108	70-130	
Bromochloromethane	ug/kg	50	52.7	105	70-130	
Bromodichloromethane	ug/kg	50	53.0	106	70-130	
Bromoform	ug/kg	50	56.3	113	68-136	
Bromomethane	ug/kg	50	55.1	110	60-140	
Carbon tetrachloride	ug/kg	50	53.4	107	70-130	
Chlorobenzene	ug/kg	50	52.3	105	70-130	
Chloroethane	ug/kg	50	57.3	115	51-147	
Chloroform	ug/kg	50	51.6	103	70-130	
Chloromethane	ug/kg	50	53.9	108	48-130	
cis-1,2-Dichloroethene	ug/kg	50	52.5	105	70-130	
cis-1,3-Dichloropropene	ug/kg	50	53.3	107	70-130	
Dibromochloromethane	ug/kg	50	55.8	112	70-130	
Dibromomethane	ug/kg	50	52.1	104	70-130	
Dichlorodifluoromethane	ug/kg	50	55.1	110	49-130	
Diisopropyl ether	ug/kg	50	53.6	107	66-130	
Ethylbenzene	ug/kg	50	53.7	107	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	54.8	110	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	54.1	108	70-130	
m&p-Xylene	ug/kg	100	106	106	70-130	
Methyl-tert-butyl ether	ug/kg	50	52.8	106	70-130	
Methylene Chloride	ug/kg	50	47.3	95	50-137	
n-Butylbenzene	ug/kg	50	52.9	106	70-130	
n-Propylbenzene	ug/kg	50	53.6	107	70-130	
Naphthalene	ug/kg	50	53.8	108	70-131	
o-Xylene	ug/kg	50	53.3	107	70-130	
p-Isopropyltoluene	ug/kg	50	54.7	109	70-130	
sec-Butylbenzene	ug/kg	50	55.5	111	70-130	

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(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

LABORATORY CONTROL SAMPLE: 2554429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	50	51.7	103	70-130	
tert-Butylbenzene	ug/kg	50	47.6	95	69-130	
Tetrachloroethene	ug/kg	50	52.9	106	56-130	
Toluene	ug/kg	50	50.7	101	70-130	
trans-1,2-Dichloroethene	ug/kg	50	53.6	107	70-130	
trans-1,3-Dichloropropene	ug/kg	50	53.9	108	70-130	
Trichloroethene	ug/kg	50	53.0	106	70-141	
Trichlorofluoromethane	ug/kg	50	52.3	105	67-130	
Vinyl acetate	ug/kg	100	116	116	10-136	
Vinyl chloride	ug/kg	50	55.7	111	67-130	
Xylene (Total)	ug/kg	150	159	106	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2555081 2555082

Parameter	Units	92425723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	2080	2080	2000	2260	96	109	52-133	12	
1,1,1-Trichloroethane	ug/kg	ND	2080	2080	1840	2000	88	96	49-137	8	
1,1,2,2-Tetrachloroethane	ug/kg	ND	2080	2080	1890	2180	91	105	39-150	14	
1,1,2-Trichloroethane	ug/kg	ND	2080	2080	1940	2550	93	123	48-140	27	
1,1-Dichloroethane	ug/kg	ND	2080	2080	1870	2050	90	99	46-135	10	
1,1-Dichloroethene	ug/kg	ND	2080	2080	1890	1990	91	96	38-149	5	
1,1-Dichloropropene	ug/kg	ND	2080	2080	1830	2040	88	98	41-140	11	
1,2,3-Trichlorobenzene	ug/kg	ND	2080	2080	2020	2160	97	104	10-158	7	
1,2,3-Trichloropropane	ug/kg	ND	2080	2080	2000	2200	96	106	33-157	9	
1,2,4-Trichlorobenzene	ug/kg	ND	2080	2080	1950	2050	94	99	10-155	5	
1,2,4-Trimethylbenzene	ug/kg	15200	2080	2080	16900	15300	83	6	24-154	10	M1
1,2-Dibromo-3-chloropropane	ug/kg	ND	2080	2080	1730	2070	83	100	33-158	18	
1,2-Dibromoethane (EDB)	ug/kg	ND	2080	2080	2090	2140	100	103	40-136	3	
1,2-Dichlorobenzene	ug/kg	ND	2080	2080	1920	2000	92	96	27-146	4	
1,2-Dichloroethane	ug/kg	ND	2080	2080	1970	2120	95	102	49-140	7	
1,2-Dichloropropane	ug/kg	ND	2080	2080	1940	2130	93	103	44-143	10	
1,3,5-Trimethylbenzene	ug/kg	5040	2080	2080	6750	6280	82	59	40-144	7	
1,3-Dichlorobenzene	ug/kg	ND	2080	2080	1900	1980	91	95	33-140	4	
1,3-Dichloropropane	ug/kg	ND	2080	2080	2110	2170	101	105	47-147	3	
1,4-Dichlorobenzene	ug/kg	ND	2080	2080	1890	1970	91	95	35-139	4	
2,2-Dichloropropane	ug/kg	ND	2080	2080	1870	2080	90	100	41-140	10	
2-Butanone (MEK)	ug/kg	ND	4150	4150	8640J	7420J	208	179	10-181		M1
2-Chlorotoluene	ug/kg	ND	2080	2080	909	2110	44	101	38-147	79	R1
2-Hexanone	ug/kg	ND	4150	4150	5050J	4850J	122	117	18-169		
4-Chlorotoluene	ug/kg	ND	2080	2080	1660	1930	80	93	36-145	15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	4150	4150	5990	5850	102	98	16-175	2	

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QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2555081 2555082

Parameter	Units	92425723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acetone	ug/kg	ND	4150	4150	1860J	4220J	45	101	10-200		
Benzene	ug/kg	1720	2080	2080	3650	3700	93	95	46-136	2	
Bromobenzene	ug/kg	ND	2080	2080	1910	2030	92	98	38-149	6	
Bromochloromethane	ug/kg	ND	2080	2080	1910	2040	92	98	44-142	7	
Bromodichloromethane	ug/kg	ND	2080	2080	1770	2040	85	98	41-140	15	
Bromoform	ug/kg	ND	2080	2080	1660	2190	80	105	34-145	27	
Bromomethane	ug/kg	ND	2080	2080	1660	1830	80	88	14-162	10	
Carbon tetrachloride	ug/kg	ND	2080	2080	1580	1830	76	88	44-141	15	
Chlorobenzene	ug/kg	ND	2080	2080	1930	1960	93	94	39-141	2	
Chloroethane	ug/kg	ND	2080	2080	1200	1310	58	63	10-182	9	
Chloroform	ug/kg	ND	2080	2080	1920	1900	92	92	45-140	1	
Chloromethane	ug/kg	ND	2080	2080	1950	2070	94	99	19-149	6	
cis-1,2-Dichloroethene	ug/kg	ND	2080	2080	1950	2030	94	98	38-150	4	
cis-1,3-Dichloropropene	ug/kg	ND	2080	2080	1870	2110	90	101	30-144	12	
Dibromochloromethane	ug/kg	ND	2080	2080	1870	2130	90	103	36-145	13	
Dibromomethane	ug/kg	ND	2080	2080	1850	1900	89	91	41-145	3	
Dichlorodifluoromethane	ug/kg	ND	2080	2080	1890	1960	91	94	16-146	3	
Diisopropyl ether	ug/kg	ND	2080	2080	2240	2300	108	111	41-143	2	
Ethylbenzene	ug/kg	5940	2080	2080	7710	7300	85	65	35-144	5	
Hexachloro-1,3-butadiene	ug/kg	ND	2080	2080	1820	1980	88	95	10-160	8	
Isopropylbenzene (Cumene)	ug/kg	718	2080	2080	2610	2610	91	91	30-152	0	
m&p-Xylene	ug/kg	21400	4150	4150	24800	23100	81	40	33-145	7	
Methyl-tert-butyl ether	ug/kg	ND	2080	2080	2220	2210	107	106	49-140	0	
Methylene Chloride	ug/kg	ND	2080	2080	2000J	1840J	96	89	10-174		
n-Butylbenzene	ug/kg	855	2080	2080	2830	2870	95	97	10-160	1	
n-Propylbenzene	ug/kg	2730	2080	2080	4450	4490	83	85	24-159	1	
Naphthalene	ug/kg	2460	2080	2080	4630	4770	105	111	10-171	3	
o-Xylene	ug/kg	8340	2080	2080	10200	9700	88	65	31-150	5	
p-Isopropyltoluene	ug/kg	ND	2080	2080	2590	2650	125	127	21-154	2	
sec-Butylbenzene	ug/kg	ND	2080	2080	1900	2320	91	112	19-159	20	
Styrene	ug/kg	ND	2080	2080	1900	1920	92	92	15-152	1	
tert-Butylbenzene	ug/kg	ND	2080	2080	1650	1760	79	85	31-141	6	
Tetrachloroethene	ug/kg	ND	2080	2080	1900	1960	92	94	19-141	3	
Toluene	ug/kg	14700	2080	2080	16600	16600	91	90	31-146	0	
trans-1,2-Dichloroethene	ug/kg	ND	2080	2080	1930	1990	93	96	28-157	3	
trans-1,3-Dichloropropene	ug/kg	ND	2080	2080	1890	2090	91	100	25-146	10	
Trichloroethene	ug/kg	ND	2080	2080	1810	2020	87	97	34-149	11	
Trichlorofluoromethane	ug/kg	ND	2080	2080	1420	1520	68	73	10-167	6	
Vinyl acetate	ug/kg	ND	4150	4150	4530J	4790J	109	115	10-200		
Vinyl chloride	ug/kg	ND	2080	2080	1930	1990	93	96	36-155	3	
Xylene (Total)	ug/kg	29800	6230	6230	35000	32800	83	48	29-148	6	
1,2-Dichloroethane-d4 (S)	%						103	103	70-132		
4-Bromofluorobenzene (S)	%						100	97	70-130		
Toluene-d8 (S)	%						94	97	70-130		

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QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

QC Batch: 470185 Analysis Method: EPA 8270E
QC Batch Method: EPA 3546 Analysis Description: 8270E Solid MSSV Microwave
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

METHOD BLANK: 2552715 Matrix: Solid
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	329	04/19/19 18:47	
1,2-Dichlorobenzene	ug/kg	ND	329	04/19/19 18:47	
1,3-Dichlorobenzene	ug/kg	ND	329	04/19/19 18:47	
1,4-Dichlorobenzene	ug/kg	ND	329	04/19/19 18:47	
1-Methylnaphthalene	ug/kg	ND	329	04/19/19 18:47	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	329	04/19/19 18:47	
2,4,5-Trichlorophenol	ug/kg	ND	329	04/19/19 18:47	
2,4,6-Trichlorophenol	ug/kg	ND	329	04/19/19 18:47	
2,4-Dichlorophenol	ug/kg	ND	329	04/19/19 18:47	
2,4-Dimethylphenol	ug/kg	ND	329	04/19/19 18:47	
2,4-Dinitrophenol	ug/kg	ND	1640	04/19/19 18:47	
2,4-Dinitrotoluene	ug/kg	ND	329	04/19/19 18:47	
2,6-Dinitrotoluene	ug/kg	ND	329	04/19/19 18:47	
2-Chloronaphthalene	ug/kg	ND	329	04/19/19 18:47	
2-Chlorophenol	ug/kg	ND	329	04/19/19 18:47	
2-Methylnaphthalene	ug/kg	ND	329	04/19/19 18:47	
2-Methylphenol(o-Cresol)	ug/kg	ND	329	04/19/19 18:47	
2-Nitroaniline	ug/kg	ND	1640	04/19/19 18:47	
2-Nitrophenol	ug/kg	ND	329	04/19/19 18:47	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	329	04/19/19 18:47	
3,3'-Dichlorobenzidine	ug/kg	ND	1640	04/19/19 18:47	
3-Nitroaniline	ug/kg	ND	1640	04/19/19 18:47	
4,6-Dinitro-2-methylphenol	ug/kg	ND	658	04/19/19 18:47	
4-Bromophenylphenyl ether	ug/kg	ND	329	04/19/19 18:47	
4-Chloro-3-methylphenol	ug/kg	ND	658	04/19/19 18:47	
4-Chloroaniline	ug/kg	ND	1640	04/19/19 18:47	
4-Chlorophenylphenyl ether	ug/kg	ND	329	04/19/19 18:47	
4-Nitroaniline	ug/kg	ND	658	04/19/19 18:47	
4-Nitrophenol	ug/kg	ND	1640	04/19/19 18:47	
Acenaphthene	ug/kg	ND	329	04/19/19 18:47	
Acenaphthylene	ug/kg	ND	329	04/19/19 18:47	
Aniline	ug/kg	ND	329	04/19/19 18:47	
Anthracene	ug/kg	ND	329	04/19/19 18:47	
Benzo(a)anthracene	ug/kg	ND	329	04/19/19 18:47	
Benzo(a)pyrene	ug/kg	ND	329	04/19/19 18:47	
Benzo(b)fluoranthene	ug/kg	ND	329	04/19/19 18:47	
Benzo(g,h,i)perylene	ug/kg	ND	329	04/19/19 18:47	
Benzo(k)fluoranthene	ug/kg	ND	329	04/19/19 18:47	
Benzoic Acid	ug/kg	ND	1640	04/19/19 18:47	
Benzyl alcohol	ug/kg	ND	658	04/19/19 18:47	

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REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

METHOD BLANK: 2552715 Matrix: Solid

Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	329	04/19/19 18:47	
bis(2-Chloroethyl) ether	ug/kg	ND	329	04/19/19 18:47	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	329	04/19/19 18:47	
Butylbenzylphthalate	ug/kg	ND	329	04/19/19 18:47	
Chrysene	ug/kg	ND	329	04/19/19 18:47	
Di-n-butylphthalate	ug/kg	ND	329	04/19/19 18:47	
Di-n-octylphthalate	ug/kg	ND	329	04/19/19 18:47	
Dibenz(a,h)anthracene	ug/kg	ND	329	04/19/19 18:47	
Dibenzofuran	ug/kg	ND	329	04/19/19 18:47	
Diethylphthalate	ug/kg	ND	329	04/19/19 18:47	
Dimethylphthalate	ug/kg	ND	329	04/19/19 18:47	
Fluoranthene	ug/kg	ND	329	04/19/19 18:47	
Fluorene	ug/kg	ND	329	04/19/19 18:47	
Hexachloro-1,3-butadiene	ug/kg	ND	329	04/19/19 18:47	
Hexachlorobenzene	ug/kg	ND	329	04/19/19 18:47	
Hexachlorocyclopentadiene	ug/kg	ND	329	04/19/19 18:47	
Hexachloroethane	ug/kg	ND	329	04/19/19 18:47	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	329	04/19/19 18:47	
Isophorone	ug/kg	ND	329	04/19/19 18:47	
N-Nitroso-di-n-propylamine	ug/kg	ND	329	04/19/19 18:47	
N-Nitrosodimethylamine	ug/kg	ND	329	04/19/19 18:47	
N-Nitrosodiphenylamine	ug/kg	ND	329	04/19/19 18:47	
Naphthalene	ug/kg	ND	329	04/19/19 18:47	
Nitrobenzene	ug/kg	ND	329	04/19/19 18:47	
Pentachlorophenol	ug/kg	ND	1640	04/19/19 18:47	v1
Phenanthrene	ug/kg	ND	329	04/19/19 18:47	
Phenol	ug/kg	ND	329	04/19/19 18:47	
Pyrene	ug/kg	ND	329	04/19/19 18:47	
2,4,6-Tribromophenol (S)	%	100	27-110	04/19/19 18:47	
2-Fluorobiphenyl (S)	%	77	30-110	04/19/19 18:47	
2-Fluorophenol (S)	%	72	13-110	04/19/19 18:47	
Nitrobenzene-d5 (S)	%	71	23-110	04/19/19 18:47	
Phenol-d6 (S)	%	76	22-110	04/19/19 18:47	
Terphenyl-d14 (S)	%	93	28-110	04/19/19 18:47	

LABORATORY CONTROL SAMPLE & LCSD: 2552716 2554124

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1380	1020	83	61	52-130	31	30	R1
1,2-Dichlorobenzene	ug/kg	1670	1380	975	83	59	51-130	34	30	R1
1,3-Dichlorobenzene	ug/kg	1670	1350	936	81	57	50-130	36	30	R1
1,4-Dichlorobenzene	ug/kg	1670	1390	985	83	60	49-130	34	30	R1
1-Methylnaphthalene	ug/kg	1670	1620	1210	97	73	55-130	29	30	

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REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

LABORATORY CONTROL SAMPLE & LCSD: 2552716 2554124

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1670	1300	943	78	57	30-130	31	30	R1
2,4,5-Trichlorophenol	ug/kg	1670	1550	1180	93	71	55-130	27	30	
2,4,6-Trichlorophenol	ug/kg	1670	1580	1210	95	73	57-130	26	30	
2,4-Dichlorophenol	ug/kg	1670	1530	1130	92	68	56-130	30	30	
2,4-Dimethylphenol	ug/kg	1670	1450	1070	87	64	51-130	30	30	
2,4-Dinitrophenol	ug/kg	8330	7230	7140	87	86	27-133	1	30	
2,4-Dinitrotoluene	ug/kg	1670	1470	1500	88	90	61-130	2	30	
2,6-Dinitrotoluene	ug/kg	1670	1480	1370	89	83	60-130	8	30	
2-Chloronaphthalene	ug/kg	1670	1440	1090	86	66	52-130	28	30	
2-Chlorophenol	ug/kg	1670	1440	1020	86	62	54-130	34	30	R1
2-Methylnaphthalene	ug/kg	1670	1610	1220	97	74	54-130	28	30	
2-Methylphenol(o-Cresol)	ug/kg	1670	1450	1080	87	65	51-130	30	30	
2-Nitroaniline	ug/kg	3330	2860	2490	86	75	51-130	14	30	
2-Nitrophenol	ug/kg	1670	1410	1090	84	66	49-130	25	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1420	1070	85	65	11-163	28	30	
3,3'-Dichlorobenzidine	ug/kg	3330	2890	3010	87	91	10-132	4	30	
3-Nitroaniline	ug/kg	3330	2830	2830	85	86	55-130	0	30	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3200	3310	96	100	47-142	4	30	
4-Bromophenylphenyl ether	ug/kg	1670	1540	1430	93	86	59-130	8	30	
4-Chloro-3-methylphenol	ug/kg	3330	2960	2340	89	71	55-130	23	30	
4-Chloroaniline	ug/kg	3330	2850	2280	86	69	54-130	22	30	
4-Chlorophenylphenyl ether	ug/kg	1670	1530	1250	92	75	58-130	20	30	
4-Nitroaniline	ug/kg	3330	3060	3140	92	95	54-130	3	30	
4-Nitrophenol	ug/kg	8330	7780	7620	93	92	48-130	2	30	
Acenaphthene	ug/kg	1670	1630	1260	98	76	60-130	25	30	
Acenaphthylene	ug/kg	1670	1700	1330	102	80	60-130	24	30	
Aniline	ug/kg	1670	1210	914	72	55	43-130	28	30	
Anthracene	ug/kg	1670	1680	1660	101	100	63-130	1	30	
Benzo(a)anthracene	ug/kg	1670	1700	1770	102	107	59-130	4	30	
Benzo(a)pyrene	ug/kg	1670	1700	1760	102	107	57-130	4	30	
Benzo(b)fluoranthene	ug/kg	1670	1680	1720	101	104	54-130	2	30	
Benzo(g,h,i)perylene	ug/kg	1670	1620	1680	97	102	59-130	4	30	
Benzo(k)fluoranthene	ug/kg	1670	1660	1740	100	105	54-130	4	30	
Benzoic Acid	ug/kg	8330	6420	5220	77	63	19-130	21	30	
Benzyl alcohol	ug/kg	3330	2920	2210	88	67	50-130	28	30	
bis(2-Chloroethoxy)methane	ug/kg	1670	1340	1030	80	62	54-130	26	30	
bis(2-Chloroethyl) ether	ug/kg	1670	1320	911	79	55	48-130	37	30	R1
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1500	1580	90	95	45-134	5	30	
Butylbenzylphthalate	ug/kg	1670	1440	1490	86	90	46-138	3	30	
Chrysene	ug/kg	1670	1690	1770	101	107	58-130	5	30	
Di-n-butylphthalate	ug/kg	1670	1510	1550	91	94	60-130	2	30	
Di-n-octylphthalate	ug/kg	1670	1600	1600	96	97	53-130	0	30	
Dibenz(a,h)anthracene	ug/kg	1670	1650	1780	99	108	59-130	8	30	
Dibenzofuran	ug/kg	1670	1480	1200	89	73	60-130	21	30	
Diethylphthalate	ug/kg	1670	1470	1430	88	86	60-130	3	30	
Dimethylphthalate	ug/kg	1670	1480	1390	89	84	60-130	6	30	
Fluoranthene	ug/kg	1670	1790	1800	107	109	65-130	1	30	

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REPORT OF LABORATORY ANALYSIS

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

LABORATORY CONTROL SAMPLE & LCSD: 2552716 2554124

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Fluorene	ug/kg	1670	1610	1350	96	82	63-130	17	30	
Hexachloro-1,3-butadiene	ug/kg	1670	1470	1030	88	62	46-130	35	30	R1
Hexachlorobenzene	ug/kg	1670	1540	1490	93	90	58-130	4	30	
Hexachlorocyclopentadiene	ug/kg	1670	1110	736	66	44	23-130	40	30	R1
Hexachloroethane	ug/kg	1670	1320	890	79	54	47-130	39	30	R1
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1670	1750	100	105	60-130	4	30	
Isophorone	ug/kg	1670	1280	1020	77	62	49-130	22	30	
N-Nitroso-di-n-propylamine	ug/kg	1670	1220	928	73	56	47-130	27	30	
N-Nitrosodimethylamine	ug/kg	1670	1250	925	75	56	45-130	30	30	
N-Nitrosodiphenylamine	ug/kg	1670	1510	1480	91	89	59-130	2	30	
Naphthalene	ug/kg	1670	1560	1180	94	72	55-130	28	30	
Nitrobenzene	ug/kg	1670	1300	972	78	59	49-130	29	30	
Pentachlorophenol	ug/kg	3330	3180	3070	96	93	10-132	4	30	v1
Phenanthrene	ug/kg	1670	1670	1670	100	101	62-130	1	30	
Phenol	ug/kg	1670	1410	1040	85	63	46-130	30	30	
Pyrene	ug/kg	1670	1590	1680	95	101	53-130	6	30	
2,4,6-Tribromophenol (S)	%				107	98	27-110			
2-Fluorobiphenyl (S)	%				87	66	30-110			
2-Fluorophenol (S)	%				89	60	13-110			
Nitrobenzene-d5 (S)	%				81	60	23-110			
Phenol-d6 (S)	%				88	65	22-110			
Terphenyl-d14 (S)	%				89	96	28-110			

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA

Project: 49-39-78-F
Pace Project No.: 92425723

QC Batch: 470258 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92425723001, 92425723002, 92425723003, 92425723004, 92425723005, 92425723006, 92425723007, 92425723008, 92425723009, 92425723010

SAMPLE DUPLICATE: 2553186

Parameter	Units	92425748006 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.6	16.4	13	

SAMPLE DUPLICATE: 2553187

Parameter	Units	92425874002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.5	5.2	14	

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Asheville, NC 28804
(828)254-7176

QUALIFIERS

Project: 49-39-78-F
Pace Project No.: 92425723

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte
PASI-O	Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 532935

[1]	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49-39-78-F
Pace Project No.: 92425723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92425723001	**S1**	EPA 3050	532893	EPA 6020	532935
92425723002	**S2**	EPA 3050	532893	EPA 6020	532935
92425723003	**S3**	EPA 3050	532893	EPA 6020	532935
92425723004	**S4**	EPA 3050	532893	EPA 6020	532935
92425723005	**S5**	EPA 3050	532893	EPA 6020	532935
92425723006	**S6**	EPA 3050	532893	EPA 6020	532935
92425723007	**S7**	EPA 3050	532893	EPA 6020	532935
92425723008	**S8**	EPA 3050	532893	EPA 6020	532935
92425723009	**S9**	EPA 3050	532893	EPA 6020	532935
92425723010	**B1**	EPA 3050	532893	EPA 6020	532935
92425723001	**S1**	EPA 7471	532611	EPA 7471	532640
92425723002	**S2**	EPA 7471	532611	EPA 7471	532640
92425723003	**S3**	EPA 7471	532611	EPA 7471	532640
92425723004	**S4**	EPA 7471	532611	EPA 7471	532640
92425723005	**S5**	EPA 7471	532611	EPA 7471	532640
92425723006	**S6**	EPA 7471	532611	EPA 7471	532640
92425723007	**S7**	EPA 7471	532611	EPA 7471	532640
92425723008	**S8**	EPA 7471	532611	EPA 7471	532640
92425723009	**S9**	EPA 7471	532611	EPA 7471	532640
92425723010	**B1**	EPA 7471	532611	EPA 7471	532640
92425723001	**S1**	EPA 3546	470185	EPA 8270E	470510
92425723002	**S2**	EPA 3546	470185	EPA 8270E	470510
92425723003	**S3**	EPA 3546	470185	EPA 8270E	470510
92425723004	**S4**	EPA 3546	470185	EPA 8270E	470510
92425723005	**S5**	EPA 3546	470185	EPA 8270E	470510
92425723006	**S6**	EPA 3546	470185	EPA 8270E	470510
92425723007	**S7**	EPA 3546	470185	EPA 8270E	470510
92425723008	**S8**	EPA 3546	470185	EPA 8270E	470510
92425723009	**S9**	EPA 3546	470185	EPA 8270E	470510
92425723010	**B1**	EPA 3546	470185	EPA 8270E	470510
92425723001	**S1**	EPA 5035A	470500	EPA 8260D	470561
92425723002	**S2**	EPA 5035A	470500	EPA 8260D	470561
92425723003	**S3**	EPA 5035A	470500	EPA 8260D	470561
92425723004	**S4**	EPA 5035A	470500	EPA 8260D	470561
92425723005	**S5**	EPA 5035A	470500	EPA 8260D	470561
92425723006	**S6**	EPA 5035A	470500	EPA 8260D	470561
92425723007	**S7**	EPA 5035A	470500	EPA 8260D	470561
92425723008	**S8**	EPA 5035A	470500	EPA 8260D	470561
92425723009	**S9**	EPA 5035A	470500	EPA 8260D	470561
92425723010	**B1**	EPA 5035A	470500	EPA 8260D	470561
92425723001	**S1**	ASTM D2974-87	470258		
92425723002	**S2**	ASTM D2974-87	470258		
92425723003	**S3**	ASTM D2974-87	470258		
92425723004	**S4**	ASTM D2974-87	470258		
92425723005	**S5**	ASTM D2974-87	470258		
92425723006	**S6**	ASTM D2974-87	470258		
92425723007	**S7**	ASTM D2974-87	470258		

REPORT OF LABORATORY ANALYSIS

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Asheville, NC 28804
(828)254-7176

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49-39-78-F
Pace Project No.: 92425723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92425723008	**S8**	ASTM D2974-87	470258		
92425723009	**S9**	ASTM D2974-87	470258		
92425723010	**B1**	ASTM D2974-87	470258		

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WO# : 92425723

92425723

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/L
MTJ

ALL SHADED AI

Company: ECS Asheville	Billing Information:
Address: 1900 Hendersonville RD	
Report To: Jim Bevers	Email To:
Copy To:	Site Collection Info/Address: Drexel Facility
Customer Project Name/Number: 49-3978-F	State: / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 828-665-2307 Email: Jbevers@ecslimited.com	Site/Facility ID #:
Collected By (print): Dan Marlar	Purchase Order #: 49-3978-F Quote #:
Collected By (signature): Dan Marlar	Turnaround Date Required: 5 day STD
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:
DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC by 8260D	SVOC by 8270E	RCRA Metals by 6020/7470	Hexavalent Chromium by 7196A	Analyses
S1	SL	Grab	4-16	14:30				9	X	X	X	X	
S2	SL	Grab	4-16	14:45				9	X	X	X	X	
S3	SL	Grab	4-16	14:55				9	X	X	X	X	
S4	SL	Grab	4-16	1500				9	X	X	X	X	
S5	SL	Grab	4-16	15:05				9	X	X	X	X	
S6	SL	Grab	4-16	15:10				9	X	X	X	X	
S7	SL	Grab	4-16	15:15				9	X	X	X	X	
S8	SL	Grab	4-16	15:20				9	X	X	X	X	
S9	SL	Grab	4-16	15:25				9	X	X	X	X	
B1	SL	Grab	4-16	15:30				9	X	X	X	X	

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Container Preservative Type **

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y (N)	NA
Custody Signatures Present	Y (N)	NA
Collector Signature Present	Y (N)	NA
Bottles Intact	Y (N)	NA
Correct Bottles	Y (N)	NA
Sufficient Volume	Y (N)	NA
Samples Received on Ice	Y (N)	NA
VOA - Headspace Acceptable	Y (N)	NA
USDA Regulated Soils	Y (N)	NA
Samples in Holding Time	Y (N)	NA
Residual Chlorine Present	Y (N)	NA
Cl Strips: _____		
Sample pH Acceptable	Y N	(NA)
pH Strips: _____		
Sulfide Present	Y N	(NA)
Lead Acetate Strips: _____		

LAB USE ONLY:
Lab Sample # / Comments:

92425723

Hold Hex Chrom Samples

001
002
003
004
005
006
007
008
009
010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: None

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2349986

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 03T040
Cooler 1 Temp Upon Receipt: 5.5 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature) Dan Marlar	Date/Time: 4-17/8:34	Received by/Company: (Signature)	Date/Time: 4.17.19 0834
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): (YES) / NO

Page: _____ of: _____

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

May 03, 2019

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1093009
Samples Received:	04/26/2019
Project Number:	92425723
Description:	49-39-78-F
Site:	001
Report To:	Taylor Ezell 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Entire Report Reviewed By:

Nancy McLain
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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S1 L1093009-01 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 14:30	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 14:44	GB	Mt. Juliet, TN

S2 L1093009-02 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 14:45	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 14:55	GB	Mt. Juliet, TN

S3 L1093009-03 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 14:55	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:00	GB	Mt. Juliet, TN

S4 L1093009-04 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:00	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:05	GB	Mt. Juliet, TN

S5 L1093009-05 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:05	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:20	LEB	Mt. Juliet, TN

S6 L1093009-06 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:10	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:26	LEB	Mt. Juliet, TN

S7 L1093009-07 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:15	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:31	LEB	Mt. Juliet, TN

S8 L1093009-08 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:20	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274449	1	05/01/19 12:45	05/01/19 12:57	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:36	LEB	Mt. Juliet, TN

S9 L1093009-09 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:25	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274450	1	05/01/19 14:59	05/01/19 15:08	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 17:25	LEB	Mt. Juliet, TN

B1 L1093009-10 Solid

Collected by	Collected date/time	Received date/time
	04/16/19 15:30	04/26/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1274450	1	05/01/19 14:59	05/01/19 15:08	JD	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1274063	1	05/01/19 15:42	05/02/19 15:52	LEB	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy F. McLain

Nancy McLain
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.321	1.26	1	05/02/2019 14:44	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.324	1.27	1	05/02/2019 14:55	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.571	J	0.312	1.22	1	05/02/2019 15:00	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.8		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.320	1.25	1	05/02/2019 15:05	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.316	1.24	1	05/02/2019 15:20	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.317	1.24	1	05/02/2019 15:26	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.322	1.26	1	05/02/2019 15:31	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.0		1	05/01/2019 12:57	WG1274449

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.376	J	0.319	1.25	1	05/02/2019 15:36	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.1		1	05/01/2019 15:08	WG1274450

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.323	1.26	1	05/02/2019 17:25	WG1274063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	05/01/2019 15:08	WG1274450

Wet Chemistry by Method 7199

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	U		0.334	1.31	1	05/02/2019 15:52	WG1274063

Method Blank (MB)

(MB) R3407357-1 05/01/19 12:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1093009-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093009-01 05/01/19 12:57 • (DUP) R3407357-3 05/01/19 12:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.5	80.4	1	1.12		10

Laboratory Control Sample (LCS)

(LCS) R3407357-2 05/01/19 12:57

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3407331-1 05/01/19 15:08

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1093029-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093029-01 05/01/19 15:08 • (DUP) R3407331-3 05/01/19 15:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.3	79.4	1	1.11		10

Laboratory Control Sample (LCS)

(LCS) R3407331-2 05/01/19 15:08

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3407640-1 05/02/19 14:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1093009-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1093009-01 05/02/19 14:44 • (DUP) R3407640-3 05/02/19 14:49

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	0.000	1	0.000		20

L1093009-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1093009-09 05/02/19 17:25 • (DUP) R3407640-10 05/02/19 17:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	0.000	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3407640-2 05/02/19 14:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.95	99.5	80.0-120	

L1093240-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1093240-16 05/02/19 16:23 • (MS) R3407640-5 05/02/19 16:28 • (MSD) R3407640-6 05/02/19 16:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	U	19.3	19.1	96.6	95.4	1	75.0-125			1.31	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

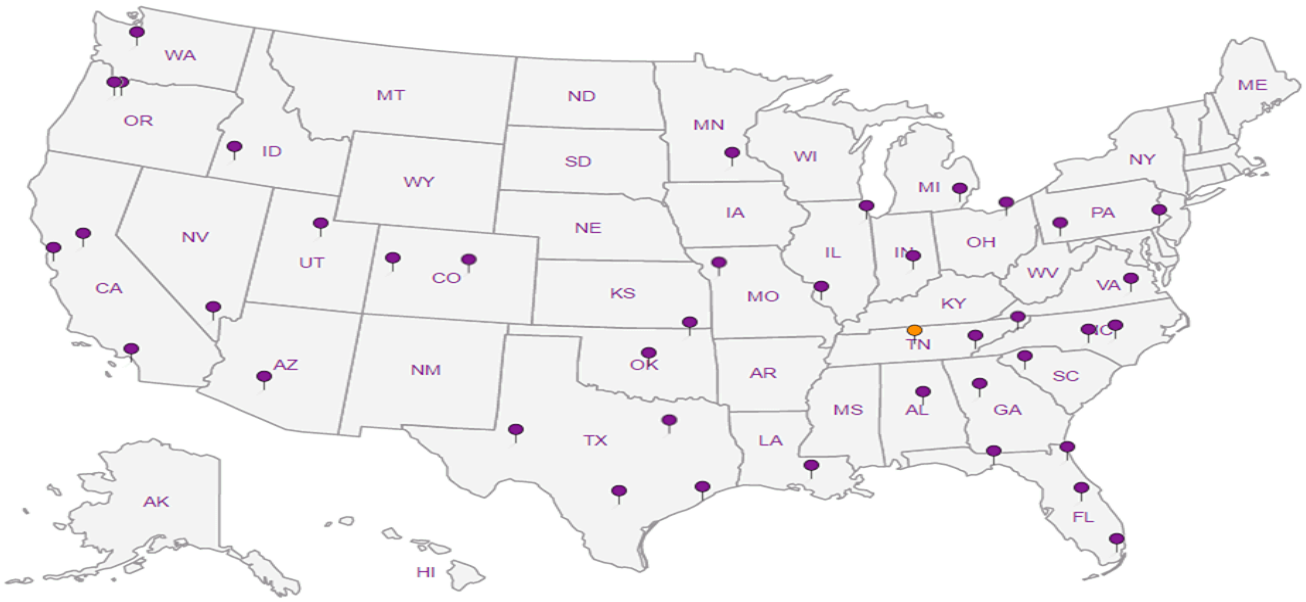
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody

I036

Pace Analytical®
www.pacelabs.com

Workorder: 92425723 **Workorder Name:** 49-39-78-F **Results Requested By:** ~~4/24/2019~~ As soon as reaonable

Report / Invoice To	Subcontract To
Taylor Ezell Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: taylor.ezell@pacelabs.com	Pace National Mt Juliet, TN P.O. PTE25723

State of Sample Origin:

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 7199	LAB USE ONLY
1	S1	4/16/2019 14:30	92425723001	Solid	1	X	L1093009-01
2	S2	4/16/2019 14:45	92425723002	Solid		X	02
3	S3	4/16/2019 14:55	92425723003	Solid		X	03
4	S4	4/16/2019 15:00	92425723004	Solid		X	04
5	S5	4/16/2019 15:05	92425723005	Solid		X	05
6	S6	4/16/2019 15:10	92425723006	Solid		X	06
7	S7	4/16/2019 15:15	92425723007	Solid		X	07
8	S8	4/16/2019 15:20	92425723008	Solid		X	08
9	S9	4/16/2019 15:25	92425723009	Solid		X	09
10	B1	4/16/2019 15:30	92425723010	Solid		X	10
11							
12							
13							
14							

2.3±0.0 = 2.3 IAAT 3

1009 9118 2667

RAD SCREEN: <0.5 mR/hr

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	NEWERRA/PACE ALV	4/25/19, 1700			L1093609
2					
3				4/26/19	

Cooler Temperature on Receipt ____ °C	Custody Seal (Y) or N	Received on Ice (Y) or N	Samples Intact (Y) or N

2.3 ± 0.2 3 IAM 3

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	PACE	SDG#:	L1093009
Cooler Received/Opened On:	4/26/19	Temperature:	
Received By:	Jordan Harris		
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Pace Analytical Services, LLC
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

April 30, 2019

Jim Bevers
ECS Carolinas
1900 Hendersonville Road
Suite 10
Asheville, NC 28803

RE: Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

Dear Jim Bevers:
Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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CERTIFICATIONS

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92426523001	**COMP**	EPA 8015C Modified	BAJ	2	PASI-C
		EPA 8015C Modified	LMB	2	PASI-C
		EPA 8260D	CL	7	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

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SUMMARY OF DETECTION

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92426523001	**COMP**					
EPA 8015C Modified	Diesel Range Organics(C10-C28)	163	mg/kg	6.5	04/28/19 18:25	
EPA 8015C Modified	Gas Range Organics (C6-C10)	308	mg/kg	7.0	04/26/19 23:04	
EPA 8260D	Benzene	26.2	ug/kg	5.3	04/27/19 21:35	
EPA 8260D	Ethylbenzene	207	ug/kg	5.3	04/27/19 21:35	M1
EPA 8260D	Toluene	635	ug/kg	134	04/29/19 13:50	
EPA 8260D	Xylene (Total)	1170	ug/kg	10.7	04/27/19 21:35	MS
ASTM D2974-87	Percent Moisture	22.7	%	0.10	04/24/19 16:26	

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ANALYTICAL RESULTS

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

Sample: COMP **Lab ID: 92426523001** Collected: 04/23/19 14:00 Received: 04/23/19 16:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546							
Diesel Range Organics(C10-C28)	**163**	mg/kg	6.5	1	04/26/19 17:10	04/28/19 18:25		
Surrogates								
n-Pentacosane (S)	82	%	33-129	1	04/26/19 17:10	04/28/19 18:25	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015C Modified Preparation Method: EPA 5030B							
Gas Range Organics (C6-C10)	**308**	mg/kg	7.0	1	04/26/19 14:36	04/26/19 23:04		
Surrogates								
4-Bromofluorobenzene (S)	173	%	63-130	1	04/26/19 14:36	04/26/19 23:04	460-00-4	S5
8260D/5035A Volatile Organics	Analytical Method: EPA 8260D Preparation Method: EPA 5035A							
Benzene	**26.2**	ug/kg	5.3	1	04/26/19 17:14	04/27/19 21:35	71-43-2	
Ethylbenzene	**207**	ug/kg	5.3	1	04/26/19 17:14	04/27/19 21:35	100-41-4	M1
Toluene	**635**	ug/kg	134	25	04/26/19 17:14	04/29/19 13:50	108-88-3	
Xylene (Total)	**1170**	ug/kg	10.7	1	04/26/19 17:14	04/27/19 21:35	1330-20-7	MS
Surrogates								
Toluene-d8 (S)	90	%	70-130	1	04/26/19 17:14	04/27/19 21:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1	04/26/19 17:14	04/27/19 21:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132	1	04/26/19 17:14	04/27/19 21:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.7**	%	0.10	1		04/24/19 16:26		

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QUALITY CONTROL DATA

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

QC Batch: 471800
QC Batch Method: EPA 5030B
Analysis Method: EPA 8015C Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92426523001

METHOD BLANK: 2560063 Matrix: Solid
Associated Lab Samples: 92426523001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	04/26/19 14:25	
4-Bromofluorobenzene (S)	%	85	63-130	04/26/19 14:25	

LABORATORY CONTROL SAMPLE: 2560064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	49.7	43.4	87	70-130	
4-Bromofluorobenzene (S)	%			84	63-130	

MATRIX SPIKE SAMPLE: 2560066

Parameter	Units	92426732001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	49.5	54.7	108	40-155	
4-Bromofluorobenzene (S)	%				128	63-130	

SAMPLE DUPLICATE: 2560065

Parameter	Units	92426341001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	ND		
4-Bromofluorobenzene (S)	%	92	103		

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QUALITY CONTROL DATA

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

QC Batch: 471783
QC Batch Method: EPA 5035A
Associated Lab Samples: 92426523001

Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 5035A Volatile Organics

METHOD BLANK: 2559982 Matrix: Solid
Associated Lab Samples: 92426523001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	04/27/19 13:37	
Ethylbenzene	ug/kg	ND	5.0	04/27/19 13:37	
Toluene	ug/kg	ND	5.0	04/27/19 13:37	
Xylene (Total)	ug/kg	ND	10.0	04/27/19 13:37	
1,2-Dichloroethane-d4 (S)	%	85	70-132	04/27/19 13:37	
4-Bromofluorobenzene (S)	%	103	70-130	04/27/19 13:37	
Toluene-d8 (S)	%	110	70-130	04/27/19 13:37	

LABORATORY CONTROL SAMPLE: 2559983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	55.1	110	70-130	
Ethylbenzene	ug/kg	50	55.3	111	70-130	
Toluene	ug/kg	50	50.5	101	70-130	
Xylene (Total)	ug/kg	150	164	109	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2561438 2561439

Parameter	Units	92426523001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/kg	26.2	579	579	610	550	101	91	46-136	10	
Ethylbenzene	ug/kg	207	579	579	2520	2550	400	405	35-144	1	M1
Toluene	ug/kg	635	579	579	1210	1140	99	88	31-146	5	
Xylene (Total)	ug/kg	1170	1730	1730	13800	14100	730	746	29-148	2	MS
1,2-Dichloroethane-d4 (S)	%						102	98	70-132		
4-Bromofluorobenzene (S)	%						98	107	70-130		
Toluene-d8 (S)	%						96	96	70-130		

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QUALITY CONTROL DATA

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

QC Batch: 471820
QC Batch Method: EPA 3546
Analysis Method: EPA 8015C Modified
Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92426523001

METHOD BLANK: 2560261 Matrix: Solid
Associated Lab Samples: 92426523001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	4.9	04/28/19 16:47	
n-Pentacosane (S)	%	73	33-129	04/28/19 16:47	

LABORATORY CONTROL SAMPLE: 2560264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	67.6	46.9	69	43-130	
n-Pentacosane (S)	%			70	33-129	

LABORATORY CONTROL SAMPLE: 2560265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	67.3	47.9	71	43-130	
n-Pentacosane (S)	%			77	33-129	

LABORATORY CONTROL SAMPLE: 2560266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	67.8	45.2	67	43-130	
n-Pentacosane (S)	%			73	33-129	

LABORATORY CONTROL SAMPLE: 2560263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	65.6	47.4	72	43-130	
n-Pentacosane (S)	%			72	33-129	

MATRIX SPIKE SAMPLE: 2560600

Parameter	Units	92426752001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	77.2	56.6	70	10-130	
n-Pentacosane (S)	%				69	33-129	

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QUALITY CONTROL DATA

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

SAMPLE DUPLICATE: 2560601

Parameter	Units	92426752002 Result	Dup Result	RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	143	99.9	35	D6
n-Pentacosane (S)	%	111	99		

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QUALITY CONTROL DATA

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

QC Batch: 471314
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 92426523001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 2557591

Parameter	Units	92426494001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.6	20.9	3	

SAMPLE DUPLICATE: 2557592

Parameter	Units	92426569003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.6	16.4	1	

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QUALIFIERS

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER DREXEL FACILITY
Pace Project No.: 92426523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92426523001	**COMP**	EPA 3546	471820	EPA 8015C Modified	472047
92426523001	**COMP**	EPA 5030B	471800	EPA 8015C Modified	471811
92426523001	**COMP**	EPA 5035A	471783	EPA 8260D	471888
92426523001	**COMP**	ASTM D2974-87	471314		

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WO# : 92426523

92426523

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorde

ALL SHADED

Company: ECS Asheville	Billing Information:
Address: 1900 Hendersonville Rd	
Report To: Jim Bevers	Email To: Jim Bevers
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Former Diesel Facility 49-3778-F	State: / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 828-665-2307 Email: jbevers@ecslimited.com	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Don Marlow	Purchase Order #: 49-3778-F Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): Don Marlow	Turnaround Date Required: 5 days STD Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [X] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y (N) NA
Custody Signatures Present (Y) N NA
Collector Signature Present (Y) N NA
Bottles Intact (Y) N NA
Correct Bottles (Y) N NA
Sufficient Volume (Y) N NA
Samples Received on Ice (Y) N NA
VOA - Headspace Acceptable Y N (NA)
USDA Regulated Soils (Y) N NA
Samples in Holding Time (Y) N NA
Residual Chlorine Present Y N (NA)
Cl Strips: _____
Sample pH Acceptable Y N (NA)
pH Strips: _____
Sulfide Present Y N (NA)
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:
92426523

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	DRO	GRO/BTEX								
Comp	SL	Comp	4-23	13:30	4-23	17:00		7	X	X								001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Bubble Bags

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2349985

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 93T048
Cooler 1 Temp Upon Receipt: 3.5 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Don Marlow	4-23-19 16:45	NFreeman/PACE AVL	4/23/19 16:45
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

APPENDIX C

DREXEL/MARION

"ACTIVE FUEL SPILL"

Landfill	Date	Tonnage
Foothills	5/21/19	16.92
"	"	17.42
"	"	19.80
"	"	20.54
Total		74.68

REPUBLIC SERVICES

Please print or type.

NON-HAZARDOUS WASTE MANIFEST

4913235

1. Generator's US EPA ID Number	Manifest Document Number	2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address

D.H. Griffin Wrecking Co. Customer 625
4716 Hilltop Road
Greensboro, NC 27407
4. Phone (336 316 5012

5. Generating Location (if different)

City of Marion
70 Blue Ridge Street
Marion, NC 28752
6. Phone ( )

7. Transporter #1 Company Name	8. US EPA ID Number	9. Transporter #1's Phone
10. Transporter #2 Company Name	11. US EPA ID Number	12. Transporter #2's Phone

13. Designated T/S/D Facility Name and Site Address

Foothills Regional Landfill
2800 Cheraw Rd
Lenoir, NC 28645

14. US EPA ID Number

15. Facility's Phone

828-757-0865

16. Waste Shipping Name and Description	17. Republic Services Approval # and Exp. Date	18. Containers No.	18. Containers Type	19. Total Quantity	20. Unit Wt/Vol
a. Petroleum Soil & Debris Mixture-ADC	3044196972 4/30/2020	1	RO	20.84	Tons
b.					
c.					

21. Additional Descriptions for Materials Listed Above

22. Special Handling Instructions and Additional Information

23. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Printed/Typed Name	Signature	Month	Day	Year
Nick Perkins				

TRANSPORTER

24. **Transporter #1:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joel Moore		5	21	19

25. **Transporter #2:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

T/S/D FACILITY

26. Discrepancy Indication Space

27. **Facility Owner or Operator:** Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Republic Services of NC, LLC dba Foothills Regional LF

Printed/Typed Name	Signature	Month	Day	Year
Darlene Wilson	Darlene Wilson	5	21	19

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1139832

REPUBLIC SERVICES

Please print or type.

NON-HAZARDOUS WASTE MANIFEST

4913234

GENERATOR

1. Generator's US EPA ID Number	Manifest Document Number	2. Page 1 of

3. Generator's Name and Mailing Address

D.H. Griffin Wrecking Co. Customer 625
4716 Hilltop Road
Greensboro, NC 27407

4. Phone ( ) 336-714-7012

5. Generating Location (if different)

City of Marion
70 Blue Ridge Street
Marion, NC 28752

6. Phone ( )

7. Transporter #1 Company Name	8. US EPA ID Number	9. Transporter #1's Phone
10. Transporter #2 Company Name	**11. US EPA ID Number**	**12. Transporter #2's Phone**
13. Designated T/S/D Facility Name and Site Address	**14. US EPA ID Number**	**15. Facility's Phone**
Foothills Regional Landfill 2800 Cherawa Rd Lenoir, NC 28645		828-757-0965

16. Waste Shipping Name and Description	17. Republic Services Approval # and Exp. Date	18. Containers No.	18. Containers Type	19. Total Quantity	20. Unit Wt/Vol
a. Petroleum Soil & Debris Mixture-ADC	3044196972 4/30/2020	1	RO	19.60	Tons
b.					
c.					

21. Additional Descriptions for Materials Listed Above

22. Special Handling Instructions and Additional Information

23. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Printed/Typed Name	Signature	Month	Day	Year
Nick Perkins				

TRANSPORTER

24. **Transporter #1:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joel Moore		5	21	19

25. **Transporter #2:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

T/S/D FACILITY

26. Discrepancy Indication Space

27. **Facility Owner or Operator:** Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Republic Services of NC, LLC dba Foothills Regional LF

Printed/Typed Name	Signature	Month	Day	Year
Darlene Wilson		5	21	19

T/S/D/F/COPY

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1139791

REPUBLIC SERVICES

Please print or type.

NON-HAZARDOUS WASTE MANIFEST

4913233

1. Generator's US EPA ID Number	Manifest Document Number	2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address	5. Generating Location (if different)
D.H. Griffin Wrecking Co. Customer 625 4716 Hilltop Road Greensboro, NC 27407 4. Phone ( )	City of Marion 70 Blue Ridge Street Marion, NC 28752 6. Phone ( )

7. Transporter #1 Company Name	8. US EPA ID Number	9. Transporter #1's Phone

10. Transporter #2 Company Name	11. US EPA ID Number	12. Transporter #2's Phone

13. Designated T/S/D Facility Name and Site Address	14. US EPA ID Number	15. Facility's Phone
Foothills Regional Landfill 2800 Cheraw Rd Lenoir, NC 28645		828-757-0965

16. Waste Shipping Name and Description	17. Republic Services Approval # and Exp. Date	18. Containers No.	18. Containers Type	19. Total Quantity	20. Unit Wt/Vol
a. Petroleum Soil & Debris Mixture-ADC	3044136872 4/30/2020	1	RO	17.62	Tons
b.					
c.					

21. Additional Descriptions for Materials Listed Above

22. Special Handling Instructions and Additional Information

23. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Printed/Typed Name	Signature	Month	Day	Year
Nick Perkins				

TRANSPORTER

24. **Transporter #1**: Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joe Moore		5	21	19

25. **Transporter #2**: Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

T/S/D FACILITY

26. Discrepancy Indication Space

27. **Facility Owner or Operator:** Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Republic Services of NC, LLC dba Foothills Regional LF

Printed/Typed Name	Signature	Month	Day	Year
Darlene Wilson	Darlene Wilson	5	21	19

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REPUBLIC SERVICES

Please print or type.

NON-HAZARDOUS WASTE MANIFEST

4913232

1. Generator's US EPA ID Number	Manifest Document Number	2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address	5. Generating Location (if different)
D.H. Griffin Wrecking Co. Customer 825 4716 Hilltop Road Greensboro, NC 27407 4. Phone ( ) 336-944-6942	City of Marion 70 Blue Ridge Street Marion, NC 28752 6. Phone ( )

7. Transporter #1 Company Name	8. US EPA ID Number	9. Transporter #1's Phone
10. Transporter #2 Company Name	**11. US EPA ID Number**	**12. Transporter #2's Phone**
13. Designated T/S/D Facility Name and Site Address	**14. US EPA ID Number**	**15. Facility's Phone**
Foothills Regional Landfill 2800 Cherrow Rd Lenoir, NC 28645		828-757-0965

16. Waste Shipping Name and Description	17. Republic Services Approval # and Exp. Date	18. Containers No.	18. Containers Type	19. Total Quantity	20. Unit Wt/Vol
a. Petroleum Soil & Debris Mixture-ADC	3044196372 4/30/2020	1	RO	16.92	Tons
b.					
c.					

21. Additional Descriptions for Materials Listed Above

22. Special Handling Instructions and Additional Information

23. **GENERATOR'S CERTIFICATION:** I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Printed/Typed Name	Signature	Month	Day	Year
Nick Perkins				

TRANSPORTER

24: **Transporter #1:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joel Moore		5	7	19

25. **Transporter #2:** Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

T/S/D FACILITY

26. Discrepancy Indication Space

27. **Facility Owner or Operator:** Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Republic Services of NC, LLC dba Foothills Regional LF

Printed/Typed Name	Signature	Month	Day	Year
D. Wilson		5	7	19

T/S/D/F/COPY

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Appendix VII: Statement of Qualifications

Engineering Consulting Services

Statement of Qualifications

2020

GUTS

INITIATIVE

CONSTRUCTION MATERIALS

FACILITIES









GEOTECHNICAL

RESILIENCE

ENVIRONMENTAL

TENACITY

COMPANY OVERVIEW



2,000
employees

65+
locations

30+
years' experience

ABOUT OUR COMPANY

Engineering Consulting Services (ECS) is one of the largest and most rapidly growing engineering and consulting companies in the US. Founded in 1988, ECS is a leader in geotechnical, environmental, construction materials and facilities engineering. We are currently ranked 69 in *Engineering News-Record's* Top 500 Design Firms (April 2020) and 52 in Zweig Group's 2020 Hot Firms (June 2020).

ECS CORE SERVICES

- Geotechnical
- Construction Materials
- Environmental
- Facilities

ECS FOOTPRINT

Whether your project requires local project management, specialty expertise or both, we have you covered. ECS provides the best of both worlds - the attention your projects deserve from our local team, coupled with abundant staffing and technical resources. With 2,000 employees, ECS has grown to more than 65 locations spread across the Mid-Atlantic, Midwest, Southeast and Southwest.

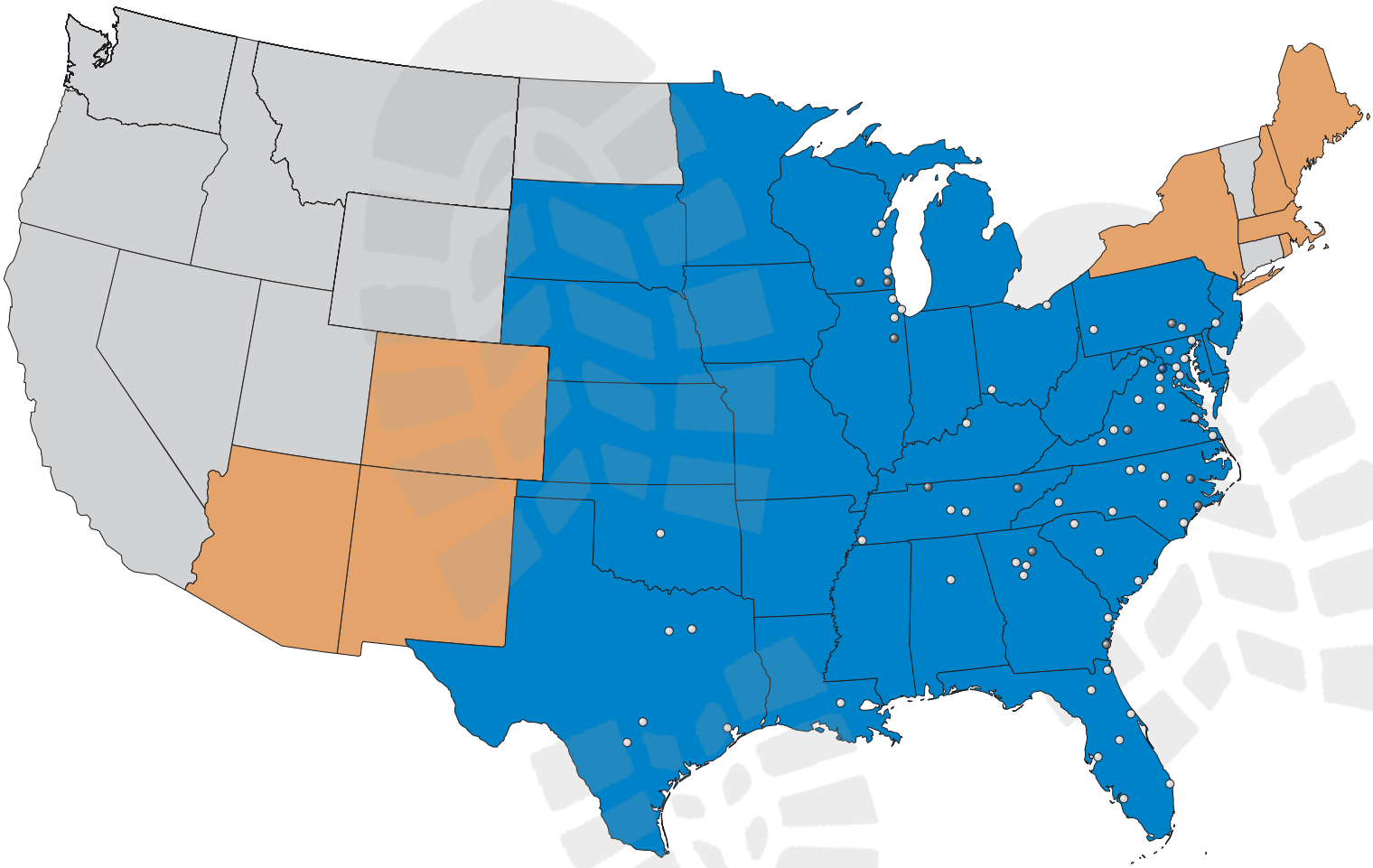
WHY ECS? WE HAVE GRIT.

What does that mean for you? That one descriptive word defines our company culture. It sets just the right tone for what our clients can expect our team to deliver each and every day. At ECS, GRIT is made up of four characteristics: guts, resilience, initiative and tenacity. Our boots are made for working. Click here for an inside look at what we do, who we are and why we have GRIT.

As a culture of doers, we roll up our sleeves and use our skills to help solve problems. We hustle.

WHEREVER YOUR PROJECT TAKES YOU, ECS HAS...

BOOTS ON THE GROUND.



SERVICES KEY

- Environmental & Facilities
- Geotechnical, Environmental, Materials Testing & Facilities
- Geotechnical, Environmental & Facilities

OFFICES KEY

- Full Service Office
- Testing Services Only
- Corporate Headquarters

Materials Testing Service Area is approximately a 75-mile radius around each office.

DUE DILIGENCE





As part of typical commercial, industrial and residential real estate transactions, many services need to be completed prior to closing that should not be overlooked. ECS provides environmental and engineering due diligence services common to real estate transaction-driven work, including:

Environmental Due Diligence Services:

- Phase I Environmental Site Assessments (ESAs)
- Wetland and Stream Determination and Delineation Services
- Phase II Environmental Site Assessments (ESAs)
- Underground Storage Tank (UST) Assessments and Closures
- Environmental Transaction Screens (ETS)
- Regulatory Record Reviews
- HUD Assessments
- Endangered Species Assessments
- Historical and Cultural Surveys/Assessments
- Radon Assessment
- Asbestos Surveys and Abatement Design
- Lead-Based Paint Surveys and Abatement Design
- Microbial and Indoor Air Quality Assessments
- Vapor Intrusion Assessments
- Fannie Mae and Freddie Mac Assessments
- Contaminated soil management plans

Facilities Due Diligence Services:

- Accessibility Consulting
- Bank Draw Review
- Pre and Post Construction Surveys
- Property Condition Assessments (PCAs)
- Forensic Investigations
- GPR Surveys
- EIFS Services

Engineering Due Diligence Services:

- Subsurface Geotechnical Explorations
- Test Pit Evaluations
- Seismic Studies
- Cost estimating for construction
- Geologic Assessments

JENNIFER BRUMBAUGH

ENVIRONMENTAL ASSISTANT STAFF PROJECT MANAGER



CERTIFICATIONS

Nuclear Gauge Operator
ACI Concrete Testing
ICC Soils
Hazwoper 40-hour Training

EDUCATION

Bachelor of Science, 2013, Geology, University of North Carolina at Chapel Hill, Chapel Hill, NC

PROFESSIONAL PROFILE

Ms. Brumbaugh is an Environmental Assistant Staff Project Manager for ECS. She is responsible for coordianting and preparing Phase I Environmental Site Assessments. Her responsibilities include conducting Phase I Environmental Site Assessments (ESAs), Phase II Site Assessments and lead-based paint assessments. Ms. Brumbaugh has performed Phase I ESAs to determine environmental liabilities for commercial, residential, institutional, industrial and retail facilities.

PROJECT EXPERIENCE

- Campus Village USC, Columbia, SC
- I-26/US 21 Interchange Improvements, Lexington and Calhoun Counties, SC
- City of Charleston HUD Assistance, Charleston, SC
- Dorchester District Two On-Call Services, Dorchester, SC
- Romney Street VCC, Charleston, SC
- Charleston Cleaners, Johns Island, SC
- Rifle Range Road, Mt. Pleasant, SC
- Dashi, North Charleston, SC
- Leland Park, Mt. Pleasant, SC
- Flats at Mixson Apartments, North Charleston, SC
- Great Southern Homes, Multiple locations across SC
- Former Ballards Sinclair Station, Bridgeton, NC
- Smith Farms 450-Acre Property, Greer, SC
- Wendy's, Various Locations, SC
- Crossroads Commons, Columbia, SC
- Stoneridge Drive Property, Columbia, SC
- Proposed Fender Mender, Mount Pleasant, SC
- Upper Dean Subdivision, Wilmington, SC

JAMES BEVERS, PE

ENVIRONMENTAL PROJECT MANAGER



REGISTRATIONS

Professional Engineer (PE): NC

40-Hour HAZWOPER

Asbestos Inspector Accreditation: NC

ACI Concrete Strength Testing

Troxler Radiological Safety

SKILLS

Phase I Environmental Site Assessments

Phase II Environmental Site Assessments

Vapor Intrusion Mitigation System Design

Asbestos Assessments

Radon Assessments

Indoor Air Quality Mold Assessments

HUD & USDA Environmental Assessments

Field Support and Inspections

EDUCATION

Bachelor of Science, Environmental Engineering, 2005, University of Wisconsin at Platteville, Platteville, WI

PROFESSIONAL PROFILE

Mr. Bevers is an Environmental Project Manager for ECS. He has over 15 years of experience in the engineering, construction, and environmental consulting fields, including a variety of project experience for environmental assessment. His present responsibilities include project management, site assessment, reporting, and client development for the Asheville Branch Office of ECS. Additional experience includes field support and inspections on projects ranging from utility installation to Superfund site remediation as well as construction material and soil testing.

PROJECT EXPERIENCE

- Days Inn Hotel Phase I ESA, Asbestos & Lead-Based Paint Assessment, HUD Environmental Review & HEROS Submittal, Mold & Moisture Assessment, Radon Assessment, Asheville, NC
- ASCO Power Technologies SPCC Plan, Welcome, NC
- Marshall Steam Plant Trans Ash SPCC Plan, Sherrils Ford, NC
- Haywood Regional Medical Center Canton Urgent Care Indoor Air Quality Mold Assessment, Canton, NC
- Patton Avenue Bojangles' Soil & Groundwater Assessment, Asheville, NC
- Reynolds Mountain Landfill Groundwater Monitoring, Woodfin, NC
- Camp Golden Valley Wastewater Treatment Facility Triannual Groundwater Sampling, Bostic, NC
- Ramada Inn Phase I ESA, Asbestos & Lead-Based Paint Assessment, Asheville, NC
- Asheville Heights Radon Assessment, Asheville, NC
- Lee Walker Heights Asbestos & Radon Assessments, Asheville, NC
- Winston-Salem State University SPCC Plan, Winston-Salem, NC
- Five Points Crossing Phase I ESA & HUD EA, Rocky Mount, NC
- Tri-County Community Collect Phase I ESA, HUD Environmental Assessment, & Soil & Groundwater Assessment, Murphy, NC

DAVID VALENTINE, REM, PWS

ENVIRONMENTAL PRINCIPAL,
ASSISTANT DEPARTMENT MANAGER



REGISTRATIONS

Registered Environmental Manager
Professional Wetland Scientist
TN QHP-In-Training
Asbestos Inspector: NC, SC
Grade 1 Physical/Chemical Operator
DOT Level III: Designer of E&SC Plans
HAZWOPER, 40-hour

SKILLS

Phase I Environmental Site Assessments

Phase II Environmental Site Assessments

Natural Resource Assessments

Industrial Hygiene Services

EDUCATION

Bachelor of Science
Natural Resources
The University of the South
Sewanee, TN
2011

PROFESSIONAL PROFILE

Mr. Valentine started with ECS in 2011 and is currently an Environmental Principal and Assistant Department Manager for the Environmental Due Diligence Department of ECS Southeast, LLP. Mr. Valentine's project experience includes Phase I Environmental Site Assessments, Phase II Environmental Site Assessments, Stream/Wetland Delineations, Agency Verifications, Limited NEPA Database Reviews, Asbestos Assessments, Lead-Based Paint Assessments, Mold Assessments, and other environmental services. Mr. Valentine has project responsibilities that include client contact to identify project requirements and project execution.

PROJECT EXPERIENCE

- Duke Energy Center, Charlotte, NC
- Liberty Mega Site, Liberty, NC
- Bradley Industrial Park, Fort Mill, SC
- Good Shepard Church, Charlotte, NC
- Civic Park Apartments, Salisbury, NC
- Lafayette Solar Farm, Shelby, NC
- One Wells Fargo Center, Charlotte, NC
- RW Garcia Building, Lincolnton, NC
- Tremont Industrial Park, Charlotte, NC
- Westgate Industrial Park, Clover, SC
- York County Courthouse, York, SC
- Goodyear Auto Center, Charlotte, NC
- Abbey Place Apartments, Charlotte, NC

Appendix VIII: Acronyms

ACRONYMS

AUL	Activity and Use Limitations
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
ACM	Asbestos Containing Materials
BER	Business Environmental Risk
CORRACTS	CERCLA Corrective Action List
NPL	CERCLA National Priorities List
NFRAP	CERCLA No Further Remedial Action Planned
CERCLA	Comprehensive Environmental Response Cleanup Liability Act
CESQG	Conditionally Exempt Small Quantity Generator
CREC	Controlled Recognized Environmental Condition
ERNS	Emergency Response Notification System
EDR	Environmental Data Resources, Inc.
EC	Engineering Controls
HIST LF	Historical Landfill
HREC	Historical Recognized Environmental Condition
IC	Institutional Controls
LQG	Large Quantity Generator
LBP	Lead Based Paint
LTANKS	Leaking Tanks
LUST	Leaking Underground Storage Tank
NCDEQ	North Carolina Department of Environmental Quality
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
SQG	Small Quantity Generator
SWF/LF	Solid Waste Facility/Landfill
SHWS	State Hazardous Waste Sites
UST	Underground Storage Tank
USGS	United States Geological Survey