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March 17, 2016

Mr. George Adams
NCDEQ / DWM / Superfund Section
Mooresville Regional Office
610 East Center Avenue, Ste. 301
Mooresville, North Carolina 28115

RE: Phase III Remedial Investigation Progress Report
American Truetzschler
12300 Moores Chapel Road
Charlotte, North Carolina
NCDEQ IHSB No. **NONCD0001257**
EXCEL No. **201008**

Dear Mr. Adams:

On behalf of American Truetzschler, Incorporated (Truetzschler), Excel Civil & Environmental Associates, PLLC (Excel) is pleased to submit a copy of the requested Phase III Remedial Investigation Progress Report for the above referenced site for your review and approval.

If you have any questions after review of this report, please feel free to contact me at (704) 853-0800 or by email at mstanforth@excelengr.com.

Sincerely yours,

EXCEL CIVIL & ENVIRONMENTAL ASSOCIATES, PLLC

Michael T. Stanforth, P.E.
Project Engineer

p.c *Mr. John Guglielmetti – American Truetzschler, Charlotte-NC*

PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

AMERICAN TRUETZSCHLER

TRÜTZSCHLER

12300 MOORES CHAPEL ROAD
CHARLOTTE, MECKLENBURG COUNTY, NORTH CAROLINA

NCDEQ IHSB NO. NONCD0001257
EXCEL PROJECT NO. 201008

LATITUDE 35° 15' 32.62" / LONGITUDE – 81° 00' 07.31"

Date Submitted

MARCH 17, 2016

Prepared For

MR. JOHN GUGLIELMETTI
AMERICAN TRUETZSCHLER, INCORPORATED
POST OFFICE BOX 669228
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Prepared By

ecea

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NORTH CAROLINA PROFESSIONAL SEAL 19005 ENGINEER TRENT STANFORTH 3/17/16

Nathan S. Simmons
Environmental Scientist

Michael T. Stanforth, P.E., DEE
Principal Engineer

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CERTIFICATIONS

REMEDIATNG PARTY

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

_____
American Truetzschler, Incorporated

NOTARIZATION
STATE OF NORTH CAROLINA
Gaston ~~MECKLENBURG~~ COUNTY

I Donna E. Farris a Notary Public of said County and State, do hereby certify that John Guglielmetti did personally appear and sign before me this day, produced proper identification in the form of NCDL was duly sworn or affirmed, and declared that, he or she is the duly authorized representative of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this certification in my presence.

WITNESS my hand and official seal this 21st day of March, 2016.

Donna E. Farris
Notary Public (signature)

My commission expires: 5/4/2018

(OFFICIAL SEAL)

CERTIFICATIONS (CONTINUED)

CONSULTANT

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

Michael T. Stanforth, P.E., DEE
Excel Civil & Environmental Associates, PLLC

NOTARIZATION
STATE OF NORTH CAROLINA
GASTON COUNTY

I Donna E. Farris a Notary Public of said County and State, do hereby certify that Michael T. Stanforth did personally appear and sign before me this day, produced proper identification in the form of NCDL was duly sworn or affirmed, and declared that, he or she is the duly authorized representative of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this certification in my presence.

WITNESS my hand and official seal this 21st day of March, 2016.

Donna E. Farris
Notary Public (signature)

My commission expires: 5/4/2018

(OFFICIAL SEAL)

1.0 INTRODUCTION AND SITE INFORMATION

This report describes the progress made in regards to completing the Phase III Remedial Investigation (RI) activities as requested by Mr. George Adams of the Mooresville Regional Office (MRO) of the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management (DWM), Superfund Section, Inactive Hazardous Sites Branch (IHSB) in correspondence dated June 18, 2015. This report identifies work completed to-date as per the approved Phase III Remedial Investigation Work Plan (RIWP) and requested information is being provided by American Truetzschler (Truetzschler), as requested to follow the recently submitted and approved "Phase III Remedial Investigation Work Plan" dated April 2015 and completed for the Truetzschler facility in Charlotte, North Carolina.

This report describes current assessment and remedial activities completed at the American Truetzschler (Truetzschler) facility (Site) in Charlotte, North Carolina subsequent to the aforementioned report. As part of the Phase III RI, the following tasks were completed by Excel during the months of April 2015 through March 2016:

- Continued operation of the groundwater remediation system, monthly influent/effluent sampling, and weekly site checks
- Continued operation and maintenance of the GAC units installed at supply well WSW-37 located at 10335 Harbor Drive and at WSW-41 located at the subject site, 12300 Moores Chapel Road
- Installation of off-site monitoring well MW-24
- Sampling of select water supply and monitoring wells.

The primary objectives of the approved April 2015 Phase III Remedial Investigation was to: (a) horizontally delineate dissolved phase contaminants of concern (COCs) in groundwater; (b) evaluate the AOP Pilot Treatment Plan for WSW-43 and recommend alternative options for providing clean water to the surrounding properties; (c) provide a schedule for continued monitoring and maintenance of the onsite groundwater treatment system; and (d) establish a routine schedule and scope-of-work for sampling of the existing wells and select private water supply wells.

1.1 Site Description and Background Information

The property, which consists of approximately 37.65-acres, is located at 12300 Moores Chapel Road, Charlotte, North Carolina (refer to **Figure 1**). The facility is located on the west side of Moores Chapel Road, south of the intersection of Moores Chapel Road and Heavy Equipment School Road, and north of the intersection of Moores Chapel Road and Interstate I-85. The area surrounding the facility is a mixture of undeveloped properties located to the west and north with industrial and residential properties located to the northeast and east (refer to **Figure 2**). The facility is involved in the manufacturing of textile manufacturing machinery and has undergone several expansions with building square footage totaling approximately 139,900-square feet (±).

A site survey plat [.0306(g)(4)] of the property that was prepared by James Mauney & Associates, P.A., a professional land surveyor, is provided in previous reports prepared by Excel. The plat includes scale, benchmarks, north arrow, locations of property boundaries, buildings, structures, perennial and non-perennial surface water features, drainage ditches, dense vegetation, known and suspected spill or disposal areas, underground utilities, storage vessels, existing on-site wells and identification of adjacent property owners and land usage.

Truetzschler began manufacturing operations at this facility in 1974. Prior to this date, the property appeared to be undeveloped and utilized for agricultural purposes. Former manufacturing operations at the facility included a painting operation, wet and dry coating, and an associated solvent recovery used to recover MEK and waste (waste paint) reduction. Current onsite operations utilize one of two hazardous waste satellite accumulation areas which are located in the maintenance area and the wiring department. Waste stored within these areas consists of waste aerosols. The facility currently maintains a hazardous waste storage building located on the southeastern corner of the manufacturing building which is utilized for the storage of waste generated from the onsite painting process.

Assessment activities began following sampling of the onsite water supply well by the Mecklenburg County Department of Environmental Protection (MCDEP) in January 1988. Samples collected by MCDEP revealed the presence of 1,1,1-Trichloroethane (1,1,1-TCA) and 1,1-Dichloroethene (1,1-DCE) at concentrations of 1,707-parts per billion (ppb) and 1,176-ppb, respectively. As part of Initial Site Assessment activities conducted by Westinghouse Environmental Services (Westinghouse) in October 1988 a series of soil borings and monitoring wells were installed which identified minor levels of constituents in the soil and groundwater at the facility. Subsequent investigations were continued to delineate the extent of contamination and remedial measures for recovery and treatment of impacted groundwater were implemented.

1.2 Local and Hydrogeological Conditions

As mentioned in the previous reports, Excel obtained information concerning the geologic and hydrogeologic conditions from various assessment reports completed by others for the property. Regarding a Conceptual Site Model, the Site lies within the Charlotte Belt which stretches northeast-southwest across the southern central section of the state. The area in the immediate area of the Site is underlain by foliated rock consisting of plagioclase, quartz, biotite, hornblende and epidote. Saprolite occurs from approximately 96-feet below grade level (fbgl) to approximately 143-fbgl beneath the Site. The saprolite consists of clays, silty clays, silts, and sandy silts. The saprolite overlies metamorphosed quartz diorite bedrock, consisting of an upper weathered zone ranging from two to eight-foot thickness and the lower fracture-bearing diorite bedrock.

The hydraulic gradient of the saprolite and bedrock units were estimated to be 0.028-ft/ft and 0.061-ft/ft, respectively and the hydraulic conductivity of the bedrock aquifer and saprolite were estimated to be approximately 5-ft/day. Well yields are approximately 10 to 12-gpm with a transmissivity of 200 to 400-ft/day. The direction of groundwater flow at the property under recently observed static conditions is predominantly towards the west-southwest, which is

towards the Catawba River and depicted on **Figures 6** and **7**. During system operation, a significant cone of depression influences groundwater to flow towards recovery well RW-1.

1.3 Inventory of Wells, Springs, and Surface Water Intakes

The site is located in the western portion of Mecklenburg County, near the Catawba River. Water supply in the immediate area around the site is obtained from potable wells. Based on records previously obtained from the Char-Meck Utility Department, the site and surrounding areas are not currently serviced by the municipal water supply system. A review of the information indicates that the nearest existing water supply system ends on Performance Road approximately 600-feet east of Moores Chapel Road. In June-July 2011, Excel completed an inventory of water supply wells, springs and surface water intakes used as sources of potable water within a ½-mile radius of the center of the site. No springs could be identified; however, nine surface water features were identified along with forty-nine water supply wells with private, transient and community uses. **Figure 5** illustrates the water supply well locations found to exist within ½-mile of the source area. **Table 5** provides the property identification number, address, well owner information, and comments regarding the well. In addition, residences reportedly connected to the Harbor House water system (62 connections) were identified with addresses and are also presented in **Table 5**. The closest community supply well (Harbor House No. 2 also identified as WSW-43) is located approximately 765-feet to the south-southwest of the source area.

According to the NCDEQ Water Supply Section, there are no designated wellhead protection areas within the immediate area of the site. The Char-Meck Utility Department does not reportedly obtain water from supply wells. The utility water supply source is from Mountain Island Lake and Lake Norman. Nine surface water bodies in the study area were identified from a review of aerial photographs. Four surface water features were identified approximately 1,100-feet to the north of the suspect release site. An additional surface water feature was identified to the east at approximately 1,400-feet off of Performance Road. An intermittent stream was identified from the ponds to the north of the site and appears to flow to the west towards the Catawba River. Several intermittent streams are located to the south and southwest of the site, which appear to flow to the Catawba River, located approximately 2,900-feet to the southwest of the site.

2.0 REMEDIATION SYSTEM OPERATION

The existing groundwater remediation system is checked on a weekly basis which includes recording flow-meter readings, monthly and quarterly sampling as per the current NPDES permit and ongoing maintenance. The pump-and-treat system receives recovered groundwater from one recovery well (RW-1) via an electric submersible pump which is then processed through a particulate filter, a shallow tray airstripper, an ion exchange system, a crushed limestone filtration unit and a compost trickling filter. The system recovered and treated a total of approximately 1,939,427-gallons of groundwater from April 2015 to March 2016 and a total of approximately 8,671,876-gallons since Excel's involvement with the project beginning in June 2011.

Excel collects monthly effluent samples for select volatile organics and chronic toxicity analysis on a quarterly basis. Based on the effluent sampling event completed in February 2016, the system is in compliance with the current NPDES permit. Influent samples are also collected on a monthly

basis and laboratory analyzed for the recommended lists of COCs and 1,4-dioxane to obtain an overall system efficiency rating. Review of the influent versus effluent concentrations from April 2015 to March 2016 indicates a system efficiency of 98.7% for removal of 1,1-dichlorethene and 79.3% for removal of tetrachloroethene to levels below the applicable NPDES permit limits (refer to **Table 4** for a summary of system evaluation information).

To ensure proper operation of the remediation system, weekly visits are conducted to perform routine inspections and maintenance and are summarized below:

April 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was down for the repairs, but was sampled for VOCs.

May 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was down for repairs.

June 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs and chronic toxicity.

July 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system.

August 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was down from August 24 – 25, 2015, and remained operational for the rest of the month.

September 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was found to be down upon arrival from September 23 – 30, 2015, but was operational upon departure for each of these days. The system was sampled for VOCs and chronic toxicity.

October 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was found to be down upon arrival from October 8 – 28, 2015, but was operational upon departure for each of these days. The system was sampled for VOCs and chronic toxicity.

November 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs.

December 2015: Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs.

January 2015:	Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational and was sampled for VOCs and chronic toxicity.
February 2015:	Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational except upon arrival on February 17, 2016. The system was sampled for VOCs and chronic toxicity.
March 2016:	Excel conducted weekly monitoring and maintenance visits to perform routine O&M for the remediation system. The system was operational upon arrival.

3.0 WATER SUPPLY WELL STATUS AND SAMPLING SUMMARY

Water supply in the immediate area around the site is obtained from potable wells. Based on records obtained from the Char-Meck Utility Department, the site and surrounding area are not currently serviced by a municipal water supply system. A review of the information indicates that the nearest existing water supply system ends on Performance Road approximately 600-feet east of Moores Chapel Road.

Excel completed an inventory of water supply wells, springs and surface water intakes used as sources of potable water within a ½-mile radius of the center of the site. No springs could be identified; however, nine surface water features were identified along with forty-nine water supply wells with private, transient and community uses. The results of the locations are detailed in **Table 5** and the results of the water well sampling have been documented in previous reports and are provided in **Tables 2** and **7** of this report.

As requested by the IHSB for the completion of this report, Excel collected groundwater samples from private water supply wells WSW-33, 34, 35, 36, 37 and 41. A total of 11 water samples were collected during the reporting period for the completion of this report from the private supply wells as requested and were analyzed for the recommended list of COCs by EPA Method 8260 and 8260 SIM for low level 1,4-dioxane.

On November 26, 2013, a GAC unit was installed in-line with supply well WSW-37 located at 10335 Harbor Drive. Excel collected influent and effluent samples in June 2015 and December 2015 for the recommended list of COCs by EPA Method 8260 and 8260 SIM for low level 1,4-dioxane. Laboratory results indicated a treatment efficiency of 97.8% and 98.8% for removal of 1,1-dichloroethene in June 2015 and December 2015, respectively (refer to **Table 2** for a summary of laboratory results).

WSW-41 is currently utilized for process water at the facility and is not used for drinking purposes. Following a sampling event conducted in December 2015, elevated compounds were identified and the GAC unit was replaced on February 26, 2016. Subsequent groundwater sampling in March 2016 demonstrated that the GAC unit was effective at removing VOCs from the groundwater to below NCAC 2L standards.

3.1 Water Supply Well Analytical Summary

Review of the laboratory data for water supply well sampling activities conducted from April 2015 to March 2016 indicates that 1,1-dichloroethene, 1,4-dioxane, tetrachloroethene, and 1,1,2-trichloroethane were found to exceed the NCAC 2L Drinking Water Standards (2L) for effluent groundwater samples collected from WSW-41 in December 2015, and 1,1-dichloroethene was found to exceed the 2L standards for influent groundwater samples collected from WSW-37 in June and December 2015 (refer to **Table 2**). The remaining samples collected from WSW-33, WSW-34, WSW-35, WSW-36, WSW-37-EFF, and WSW-41 (March 2016) were found to be below the applicable 2L standards for all constituents.

The December 2015 exceedances at WSW-41 were attributed to a GAC unit in need of rebedding. Subsequently, the GAC unit at WSW-41 was rebedded on February 26, 2016, and a follow up groundwater sample was collected on March 8, 2016. The laboratory analytical results of the WSW-41 resampling effort demonstrated that all constituents were below the 2L standards and that the GAC unit is effectively removing VOCs from the groundwater.

A summary of the most recent analytical data for water supply wells sampled during May 2015, June 2015, December 2015, and March 2016 are provided as follows:

- **1,1-dichloroethene** was found to exceed 2L at a concentration of 32.8-ppb at the location of WSW-41 (December) and at concentrations ranging from 8.68-ppb to 16-ppb at the location of WSW-37-INF (influent only);
- **1,4-dioxane** was found to exceed 2L at a concentration of 22.8-ppb at the location of WSW-41 (December); after replacing the activated carbon in the treatment system, subsequent sampling indicated results below 2L;
- **tetrachloroethene** was found to exceed 2L at a concentration of 1.71-ppb at the location of WSW-41 (December); after replacing the activated carbon in the treatment system, subsequent sampling indicated results below 2L; and
- and **1,1,2-trichloroethane** was found to exceed 2L at a concentration of 0.681-ppb at the location of WSW-41 (December); after replacing the activated carbon in the treatment system, subsequent sampling indicated results below 2L.

A summary of previous samples collected from the untreated influent water stream in water supply well WSW-43 sampled from September to November 2014 is provided as follows:

- **1,1-dichloroethene** was found to exceed 2L at concentrations ranging from 7.6-ppb to 17-ppb;
- **1,4-dioxane** was found to exceed 2L at concentrations ranging from 9.1-ppb to 13-ppb.

Based on a review of the analytical data from supply wells sampled during this reporting period, WSW-37-INF continues to contain constituents which exceed the 2L standards for 1,1-dichloroethene. Although WSW-41 contained constituents in excess of the 2L standards during the December 2015 sampling event, a review of subsequent sampling results indicate levels

below 2L groundwater standards.

3.2 WSW-43 Treatment Plan and Implementation

As a follow up of the finding of 1,4-dixoane in the public supply well WSW-43 effluent in December 2012, monthly effluent samples for 1,4-dioxane were collected from the effluent following GAC rebedding in January 2013. Monthly effluent samples were found to be below method detection limits from January 2013 to April 2013 with a second breakthrough finding in May 2013. The well has remained offline since that time and as requested and approved by Carolina Water Service, Incorporated, Excel completed a "Pilot Test Study Plan" in October 2013 for approval by the NCDEQ, Public Water Supply Section.

The pilot test, which included combinations of advanced oxidation processes ozone, UV light chlorination and activated carbon was operated from May to November 2014. Based on a review of the results of the sampling conducted during the pilot testing, it appears that a combination of advanced oxidation processes extend the life of the activated carbon for treatment of 1,4 dioxane. Analytical data is provided in **Table 6**.

Excel recommends completion of the municipal water supply line extension to service the Harbor House Community and surrounding properties. Although the pilot test demonstrated effective treatment at WSW-43, groundwater treatment is not feasible for a primary water supply and should remain as a secondary effort for future use. Municipal water supply to the area will provide a sustainable approach in providing drinking water to the surrounding properties. Interested parties are currently working with the Mecklenburg utility authority to complete the extension of municipal water supply to this area.

4.0 MONITORING WELL STATUS AND SAMPLING SUMMARY

As requested, all available monitoring wells at the site were sampled by Excel in December 2013. Additionally, monitoring wells MW-22, MW-23, and MW-24 were sampled in June 2014, March 2015, and February 2016, respectively. Information obtained from previous reports and by Excel during sampling events regarding the status of existing monitoring wells is summarized on **Table 1** along with the most recent depth to water measurements and calculated water table elevations. Based on these investigations, a brief description of the status of existing monitoring wells is summarized below:

- Active monitoring/recovery wells (wells available for sampling) consist of MW-1D, MW-1V, MW-2D, MW-3V, MW-4S, MW-4D, MW-5D, MW-6S, MW-6D, MW-8, MW-9, MW-10, MW-22, MW-23, MW-24 (newly installed well) and RW-1;
- Damaged/abandoned monitoring wells consist of MW-2V, MW-3S, MW-3D, MW-5, MW-18, MW-19, MW-20 and MW-21;
- Monitoring wells found to be dry or containing an insufficient volume of water for sampling consist of MW-1S, MW-2S, MW-5S, MW-7 and MW-7S.

Groundwater Level Measurements and LNAPL

During the previous sampling events (December 2013, June 2014 [MW-22], March 2015 [MW-

23], and February 2016 [MW-24]), static water levels were measured prior to sampling. Measurements were obtained using a Heron® dipper-T Water Level Meter. The probe and tape were thoroughly decontaminated after each use by immersing and washing the tape in a solution of potable water and Liqui-nox®, followed by rinsing with distilled water. A summary of the most recent water levels are shown in **Table 1**.

Groundwater Purging and Sampling

Prior to sampling, the static water level was measured in all monitoring wells using an electronic water-level meter. This information was used to determine groundwater levels and to calculate the purge volume for wells scheduled for sampling.

The monitoring wells sampled during previous events were purged prior to sample collection to ensure that a representative sample was obtained. A Grundfos® Redi-Flow 2 stainless-steel variable speed pump with dedicated 3/8-inch polyethylene tubing was used to purge the wells by recovering water from mid-screen depth within each well. Prior to collecting each groundwater sample, the following field parameters were measured: dissolved oxygen, oxidation reduction potential, pH, temperature, specific conductivity and turbidity. Purging continued until one well volume was removed, the well was purged dry, or until the relevant parameters stabilized for at least three consecutive readings. Field parameter readings had to fall within the following limits: (±) 10% for turbidity, (±) 5% microsiemens per centimeter (µS/cm), and (±) 0.1 pH units (groundwater sampling forms are provided in **Appendix B**).

Samples were collected following purging activities and placed in laboratory supplied containers and analyzed for select volatile organic compounds by EPA Method 8260B and 1,4-Dioxane by EPA Method 8260B SIM. All groundwater samples collected for analysis were transported to ESC Lab Sciences (ESC) located in Mt. Juliet, Tennessee. ESC is certified under 15A NCAC Subchapter 2H .0800 to perform the analyses required for this project. Laboratory analytical methods followed those as specified in the most recent NCDEQ, IHSB guidelines and, in general, followed the most recent version of USEPA SW-846 methods, combined with ESC's Standard Operating Procedures.

4.1 Offsite Monitoring Well Installation

To delineate the extent of groundwater impact, Excel contracted with South Atlantic Environmental Drilling and Construction (SAEDACCO), Inc. of Fort Mill, South Carolina for the installation of one Type II monitoring well located at 12546 Moores Chapel Road (refer to **Figure 4**). The well was installed using sonic drilling techniques and completed into the top of bedrock, approximately 140 fbgl.

Monitoring well MW-24 was constructed of approximately 130-feet of two-inch diameter Schedule-40 (Sch-40) PVC well casing and 10-feet of two-inch diameter Sch-40 well screen (refer to **Table 1** for monitoring well construction data and **Appendix C** for the construction record).

4.2 Offsite Right-of-Entry

In order to complete the horizontal delineation of groundwater contamination associated with

the subject release, a right of entry agreement was entered into with Mr. Mike Currin (12546 Moores Chapel Road). Following completion of the ROEA, Excel obtained the monitoring well installation permit from Mecklenburg County Environmental Health (refer to **Appendix D**).

4.3 Groundwater Analytical Summary

Review of the December 2013, June 2014, March 2015, and February 2016 laboratory data from monitoring well sampling activities indicates that current constituents which exceeded the NCAC 2L Drinking Water Standards were 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, 1,4-dioxane, tetrachloroethene, 1,1,2-trichloroethane, trichloroethene and vinyl chloride. The exceedances represent nine of the wells sampled, (refer to **Table 2** for the most current groundwater analytical data).

A summary of the most recent analytical data for monitoring wells sampled from December 2013 to March 2016 is provided as follows:

- **1,1-dichloroethane**, **trichloroethene** and **vinyl chloride** were found to exceed 2L at concentrations of 12-ppb, 8.3-ppb and 2-ppb, respectively at the location of well MW-1V;
- **1,2-dichloroethane** was found to exceed 2L at a concentration of 2.7-ppb and 0.61-ppb at the location of monitoring wells MW-1V and MW-5D, respectively;
- **1,1-dichloroethene** was found to exceed 2L at a concentration of 340-ppb, 11-ppb, 11-ppb, 43-ppb, 8.1-ppb and 45-ppb at the location of monitoring wells MW-1V, MW-2D, MW-3V, MW-5D, MW-22 and recovery well RW-1, respectively;
- **1,4-dioxane** was found to exceed 2L at a concentration of 3.5-ppb, 270-ppb, 9.1-ppb, 5.5-ppb, 28-ppb, 18-ppb, 6-ppb, 9.2-ppb and 39-ppb at the location of monitoring wells MW-1D, MW-1V, MW-2D, MW-3V, MW-5D, MW-6S, MW-9, MW-22 and recovery well RW-1, respectively;
- **tetrachloroethene** was found to exceed 2L at a concentration of 20-ppb, 1.8-ppb and 2.4-ppb at the location of monitoring wells MW-1V and MW-5D and recovery well RW-1, respectively;
- and **1,1,2-trichloroethene** was found to exceed 2L at a concentration of 0.79-ppb at the location of monitoring well MW-5D.

Based on the analytical data from the monitoring well sampling activities, various wells continue to show elevated levels of constituents which exceed the NCAC 2L Drinking Water Standards as summarized in **Table 3** and as depicted on **Figures 8** thru **10**.

4.4 Management of Purge and Decontamination Water

Investigation-derived residues included contaminated well purge water. When applicable, the well purge water was treated onsite through the existing Interim Remediation System.

4.5 Quality Assurance and Quality Control Procedures

Field quality assurance and quality control (QA/QC) procedures followed during the sampling

events were generally consistent with those described in previous work plans, including the Sampling and Analytical Plan and the Quality Assurance Project Plan. These procedures, in turn, reflect those described in the EPA Region 4 document titled "The Field Branches Quality System and Technical Procedures" (EPA, 2009). Selected field QA/QC procedures are summarized below:

- QA/QC samples, including duplicate samples, field blanks and trip blanks were prepared and submitted to the laboratory to help assess sampling procedures.
- Samples for VOC analysis were collected into separate sample containers without mixing.
- Samples were assigned a unique identifier code to trace samples from collection through laboratory analysis and reporting.
- Samples selected for analysis were placed in the appropriate laboratory containers, labeled with a unique identification number on a label securely fixed to the container, and maintained in iced coolers at approximately four degrees centigrade pending transfer to the laboratory. An entry for each sample was made on the chain-of-custody form, which was signed by the field sampling personnel at the time of the sample collection. Sample coolers were kept in the possession of sampling personnel under chain-of-custody procedures. Upon transfer to the laboratory, the custody forms were signed over in accordance with chain-of-custody procedures, refer to **Appendix A**.

Laboratory procedures implemented by ESC were consistent with SW-846 and other applicable EPA methodologies, and with procedures detailed in the project Quality Assurance Project Plan.

5.0 PROPOSED PHASE III REMEDIAL INVESTIGATION RECOMMENDATIONS

Based on the review of information in this report, we recommend completing the following Phase III Remedial Investigation activities at the site:

- We recommend that monitoring well MW-7 and MW-2V be properly abandoned as per the applicable NCDEQ guidelines since the wells have historically been observed to be dry or are damaged and no longer accessible.
- We recommend completion of Phase III Remedial Investigation activities which will include monitoring of select water supply and monitoring wells (refer to **Table 8**), operation of the remediation system, and completion of municipal water hookup for the surrounding properties.

All Phase III Remedial Investigation activities will be completed as per **Section 6.0** which is outlined in the subsequent sections of this report.

6.0 PROPOSED METHODS OF PHASE III INVESTIGATION

The ongoing monitoring activities conducted at the site continue to indicate elevated levels of volatile organic compounds within both the surficial and deep monitoring wells located within the vicinity of Trutzschler's production well and spanning south-southwest across I-85.

6.1 Field and Laboratory Procedures

Standard operating procedures (SOPs) for field sampling procedures are outlined in the approved "Phase II RI Work Plan" completed in January 2014. Procedures associated with drilling operations, monitoring well installation and development, aquifer testing, groundwater sampling, sample control and documentation and sample packing and shipping will be completed as detailed in the approved "Phase II RI Work Plan" completed in January 2014.

6.2 Quality Assurance / Quality Control Procedures

Field quality assurance and quality control (QA/QC) procedures followed during the Phase III RI will be consistent with those described in the previous RI Work Plan. These procedures incorporate the EPA Region 4, Field Branches Quality System and Technical Procedures (EPA, 2009). Selected field QA/QC procedures are summarized below:

- QA/QC samples, including duplicate samples, field and trip blanks, will be prepared and submitted to the laboratory to help assess sampling procedures as necessary;
- Field sampling procedures will be consistent with the protocols outlined in Appendix D of the approved "Phase II RI Work Plan" completed in January 2014;
- Field decontamination procedures were consistent with protocols outlined in Appendix G of the approved "Phase II RI Work Plan" completed in January 2014;
- Prior to the start of any drilling and sampling activities, drilling locations will be marked in the field. The locations of underground utilities in the vicinity of the drilling locations will be reviewed to verify the absence of conflicts. Drilling and sampling equipment will be decontaminated before sampling and between sampling locations. Equipment used to collect groundwater samples will be dedicated and disposed of following each use;
- Sampling locations will be marked in the field by paint or staking for surveying;
- Samples will be assigned a unique identifier code to track samples from collection through laboratory analysis and reporting;
- Samples selected for analysis will be placed in the appropriate laboratory provided containers, labeled with a unique identification number on a label securely fixed to the container and transferred to the laboratory by courier. An entry for each sample will be made on the chain-of custody form, which was signed by the field sampling personnel at the time of the sample collection. Sample shipping containers will be kept in the possession of sampling personnel under chain of custody procedures. Upon transfer to the laboratory representative, the custody forms will be signed over in accordance with chain of custody procedures;
- Laboratory procedures implemented by ESC Lab Sciences (ESC) will be consistent with REC Guidance, 15A NCAC 2H .0800, or a contract laboratory under the United States Environmental Protection Agency Contract Laboratory Program and with procedures detailed in the project Quality Assurance Project Plan;
- The quality assurance program established for the Phase I RI was designed so that the

data produced during the investigation were of known precision, accuracy and completeness for its intended use. The data quality evaluation included the following activities for the data obtained during the Remedial Investigation:

- ✓ Review of chain-of-custody (COC) documentation and sample condition upon receipt at the laboratory;
- ✓ Evaluation of analytical holding times;
- ✓ Evaluation of the reported analyses to confirm that appropriate USEPA-approved analytical methods were performed;
- ✓ Evaluation of the reporting limits (RLs);
- ✓ Assessment of analytical accuracy and laboratory performance criteria (laboratory control sample recoveries, surrogates and matrix spike/matrix spike duplicate recoveries);
- ✓ and assessment of potential field and/or laboratory contamination (method blank, field blank, and trip blank, as applicable). Standard Operating Procedures for Decontamination are provided in Appendix E of the approved "Phase II RI Work Plan" completed in January 2014.

6.3 Proposed Analytical Parameters / Methods

All additional groundwater samples collected as part of the Phase III RI will be analyzed by EPA Method 8260B to include the following list of contaminants of concern (COC):

Acetone	1,1-Dichloroethene	Tetrachloroethene
Benzene	cis-1,2-Dichloroethene	1,1,1-Trichloroethane
Carbon Tetrachloride	trans-1,2-Dichloroethene	1,1,2-Trichloroethane
Chlorobenzene	1,2-Dichloropropane	Trichloroethene
Chloroform	1,4-Dioxane*	Trichlorofluoromethane
Chloroethane	Ethylbenzene	Toluene
Chloromethane	Ethylene Dibromide	Vinyl Chloride
1,1-Dichloroethane	Methylene Chloride	(total) Xylenes
1,2-Dichloroethane		

** - 1, 4-Dioxane to be analyzed with a SIM detector to achieve desired detection limits.*

Excel contacted ESC to discuss the required quantitation limits presented in the VOC TCL; ESC verified that it can complete the requirements for the contract laboratory analysis.

6.4 Contact Information

Consultant:

Excel Environmental Associates, PLLC
625 Huntsman Court, Gastonia, NC 28054
Telephone: (704) 853–0800
Contact: Mike Stanforth, PE

Laboratory:

ESC Lab Sciences
12065 Lebanon Road, Mt. Juliet, TN 37122
Telephone: (800) 767-5859
Contact: Jimmy Hunt, PM
State Laboratory Certification No. **375**

6.5 Decontamination Procedures

The procedures that will be implemented for decontamination during assessment activities at the subject site are described in Appendix E of the approved "Phase II RI Work Plan" completed in January 2014. These procedures include sampling equipment decontamination procedures, personnel decontamination, and a required personal protection equipment level of "D".

Excel developed a site specific Community Health and Safety Plan (HASP) for the previous remedial investigation associated with the subject site. The plan is intended to provide guidance for the protection of health and safety of the personnel conducting the field investigation as well as the surrounding community.

6.6 Project Schedule

Upon approval of any further ROEAs issued as necessary, proposed assessment activities will be initiated as approved by AT. The field assessment phase will be completed within 60 days of the approved access. The Phase III RI Report will be completed within 90 days of the start of field activities. Further assessment, if warranted, will be based on the findings of the assessment described in the proposed Phase III RI Work Plan.

7.0 ADDITIONAL RECOMMENDATIONS

Based on the review of information in this report and previous reports completed by Excel and other consultants for the subject site, we recommend the following ongoing activities be conducted:

- We recommend continued operation of the groundwater remediation system. Based on analytical data obtained from recovery well RW-1 and groundwater table contour maps, the system is proving effective at recovery of dissolved phase contaminants and mitigation of remaining constituents from migrating offsite;
- We recommend continuing efforts to provide municipal water supply to the surrounding properties;
- We recommend semi-annual sampling of select water supply wells, and annual sampling of all available monitoring wells as defined in **Table 8;**
- We recommend continued operation and maintenance of the GAC unit installed at supply well WSW-37 and WSW-41. Excel will analyze both influent and effluent samples for the recommended COC list by EPA Method 8260B and low level 1,4-dioxane by EPA Method 8260B SIM on a directed basis.

Based on the information in this report, no additional conclusions or recommendations are provided at this time.

8.0 LIMITATIONS

This report is based on a limited number of soil and/or groundwater and/or air samples and chemical analyses. The conclusions presented in this report are based only on the observation made during this investigation and on data provided by others. The report presents a description of the subsurface conditions observed at each boring location during this investigation. Subsurface conditions may vary significantly with time, particularly with respect to groundwater elevations and quality. Conclusions and recommendations set forth herein are applicable only to the observations, facts and conditions described at the time of this report.

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Table 1 - Monitoring Well Construction Data
American Truetzschler Facility
Charlotte, North Carolina

Well ID	Date Installed	Total Depth	Screen Interval	Well Diameter	TOC	Aquifer System*	Dec-2013 DTW	Dec-2013 WTE	Northing	Easting
MW-1S	1-Mar-92	50.0	30.0 – 50.0	2”	199.10	Surficial	DRY		555214.19	1402404.67
MW-1D	1-Aug-92	180.0	NDA	2”	198.34	Bedrock	70.30	128.04	555197.55	1402416.43
MW-1V	NDA	160.0	NDA	4”	198.33	Bedrock	61.90	136.43	555203.07	1402407.24
MW-2S	1-Mar-92	40.0	20.0 – 40.0	2”	195.74	Surficial	DRY		555149.77	1402380.91
MW-2D	1-Mar-92	147.0	142.0 – 147.0	2”	196.31	Bedrock	68.63	127.68	555151.30	1402393.79
MW-2V	NDA	215.0	NDA	4”	171.29	Transitional	DAMAGED, INACCESSIBLE**		554959.37	1402378.64
MW-3S	1-Mar-92	50.0	30.0 – 50.0	2”	201.18	N/A	ABANDONED JUNE 1996			
MW-3D	1-Mar-92	162.0	147.0 – 162.0	2”	200.46	N/A	ABANDONED JUNE 1996			
MW-3V	NDA	195.0	NDA	4”	164.59	Transitional	30.44	134.15	554980.79	1402030.76
MW-4S	1-Mar-92	50.0	30.0 – 50.0	2”	201.41	Surficial	47.46	153.95	555321.78	1402533.49
MW-4D	1-Mar-92	112.0	106.0 – 112.0	2”	201.75	Transitional	47.72	154.03	555331.78	1402534.24
MW-5	1-Aug-92	85.0	65.0 – 85.0	2”	195.06	Surficial	NOT LOCATED			
MW-5S	1-Aug-92	40.0	20.0 – 40.0	2”	195.11	Surficial	DRY		555136.13	1402254.52
MW-5D	1-Aug-92	115.0	110.0 – 115.0	2”	195.71	Transitional	61.52	134.19	555139.41	1402238.31
MW-6S	1-Aug-92	40.0	20.0 – 40.0	2”	195.24	Surficial	35.87	159.37	555128.04	1402464.27
MW-6D	1-Aug-92	131.0	126.0 – 131.0	2”	194.64	Bedrock	52.50	142.14	555123.73	1402455.07
MW-7	1-Aug-95	50.0	40.0 – 50.0	2”	197.59	Surficial	DRY		555261.74	1402000.69
MW-7S	1-Aug-92	41.0	21.0 – 41.0	2”	211.73	Surficial	40.34	171.39	555280.87	1402872.44
MW-8	Sep-95 - Oct-95	155.0	135.0 – 155.0	4”	161.10	Transitional	28.24	132.86	554997.14	1401816.59
MW-9	Sep-95 - Oct-95	30.0	15.0 – 30.0	2”	169.23	Surficial	6.76	162.47	554965.68	1402258.06
MW-10	Sep-95 - Oct-95	185.0	160.0 – 185.0	4”	178.33	Transitional	33.92	144.41	554932.14	1402664.43
MW-18	NDA	83.5	78.5 – 83.5	NDA	NDA	N/A	NOT LOCATED			
MW-19	NDA	35.0	25.5 – 35.5	NDA	NDA	N/A	NOT LOCATED			
MW-20	NDA	136.0	126.0 – 136.0	NDA	NDA	N/A	NOT LOCATED			
MW-21	NDA	35.0	NDA	NDA	NDA	N/A	NOT LOCATED			
MW-22	17-Jun-14	100.0	95.0 - 100.0	2"	NDA	Bedrock	52.82***	--	--	--
MW-23	27-Mar-15	135.0	125.0 - 135.0	2"	NDA	Bedrock	20.78****	--	--	--
MW-24	3-Feb-16	140.0	130.0 - 140.0	2"	NDA	Bedrock	24.08*****	--	--	--
PW-1	NDA	NDA	NDA	4”	NDA	Transitional	INACCESSIBLE		555208.06	1402418.26
RW-1	1-Jun-96	180.0	NDA	4”	192.60	Transitional	90.77	101.83	555130.70	1402343.07

NOTES:
* Aquifer system based on opinion from review of previous reports.
** Denotes attempt made to remove pump failed, well inaccessible.
*** Sampled 6/25/14
**** Sampled 3/30/15
***** Sampled 2/5/16
All data provided in feet unless otherwise noted

DTW - Depth to Water
NDA - No Data Available
TOC - Top of Casing
WTE - Water Table Elevation

Table 2 - Current Groundwater & Physical Parameter Data
American Truetzschler Facility
Charlotte, North Carolina

	General Information		Detected 8260 Constituents																Physical Parameter Data					
	Well ID No.	Sample Date	Acetone	Benzene	Chloroform	Chloromethane	1,1-Dichlorethane	1,2-Dichloroethane	1,1-Dichloroethene	cis, 1,2-Dichloroethene	trans, 1,2-Dichloroethene	1,4-Dioxane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	pH (su)	Conductivity (µS/cm)	Dissolved Oxygen (ppm)	Temperature (°C)	Oxygen Reduction Potential (mV)	Turbidity (NTU)
Monitoring / Recovery Wells	MW-1D	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	1.7	< 0.093	< 0.15	**3.5**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	7.11	182	5.24	18.94	197	1.9
	MW-1V	16-Dec-13	160	0.35 (J)	< 0.086	< 0.15	**12**	**2.7**	**340**	1.1	0.99	**270**	**20**	0.4 (J)	8.9	< 0.19	**8.3**	< 0.13	**2**	12.57	7,080	4.14	17.98	37	0.5
	MW-2D	16-Dec-13	2 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**11**	< 0.093	< 0.15	**9.1**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	10.72	431	3.67	20.13	108	9.6
	MW-3V	17-Dec-13	1.8 (J)	< 0.090	< 0.086	< 0.15	2.1	< 0.11	**11**	< 0.093	< 0.15	**5.5**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	7.05	196	1.66	17.74	183	3.2
	MW-4S	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.85 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.20	93	6.79	22.38	216	80.4
	MW-4D	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.91 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.27	158	5.29	19.11	249	0.0
	MW-5D*	17-Dec-13	1.3 (J)	< 0.090	0.44 (J)	< 0.15	0.89	**0.61**	**43**	< 0.093	< 0.15	**28**	**1.8**	< 0.10	0.76	**0.79**	1	< 0.13	< 0.12	6.46	168	5.78	19.34	206	8.3
	MW-6S	16-Dec-13	1.6 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	**18**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	5.33	92	3.30	14.71	339	12.9
	MW-6D*	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	0.49 (J)	< 0.093	< 0.15	1.9 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.79	248	4.15	18.03	251	2.4
	MW-8	17-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	0.57	< 0.093	< 0.15	1.1 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.91	247	3.12	17.28	197	0.0
	MW-9	17-Dec-13	< 1	< 0.090	< 0.086	0.44 (J)	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	**6**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	5.29	273	1.76	18.31	267	3.4
	MW-10	17-Dec-13	2.8 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.79 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	11.50	980	0.00	17.10	-333	22.6
	MW-22	25-Jun-14	5.3 (J)	< 0.09	0.41 (J)	< 0.15	< 0.11	< 0.11	**8.1**	< 0.093	< 0.15	**9.2**	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	6.97	194	6.68	18.34	307	0.0
	MW-23	30-Mar-15	< 10	< 0.33	1.9 J	< 0.28	< 0.26	< 0.36	6.5	< 0.26	< 0.40	1.4 J	< 0.37	< 0.78	< 0.32	< 0.38	< 0.40	< 1.2	< 0.26	8.28	429	2.35	17.49	-118	16.8
	MW-24	5-Feb-16	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	1.38	< 0.093	0.303 J	< 0.60	< 0.02	0.161 J	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	7.61	180	4.99	15.83	41	8.2
	RW-1	3-Dec-13	2.7 (J)	< 0.090	< 0.086	< 0.15	1	0.65	**45**	< 0.093	< 0.15	**39**	**2.4**	< 0.10	0.96	0.82	1.1	< 0.13	< 0.12	NA					
Potable Wells	WSW-21	20-Dec-13	2.6 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	1.2	< 0.12	NA					
	WSW-24	20-Dec-13	2.7 (J)	< 0.090	< 0.086	0.6	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-25	17-Dec-13	1.2 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-33	1-May-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	5.6	< 0.093	< 0.15	1.83 J	0.23 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-34	28-Oct-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.37	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-35	18-Jun-14	1.5 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	4.1	< 0.093	< 0.15	0.95 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	1.0 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	3.8	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		24-Jun-15	< 10	< 0.33	< 0.32	< 0.28	< 0.26	< 0.36	3.79	< 0.26	< 0.40	< 0.60	< 0.37	< 0.78	< 0.319	< 0.38	< 0.40	< 1.20	< 0.26						
		22-Dec-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.37	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-36	18-Jun-14	2.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	6.1	< 0.093	< 0.15	0.82 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	4.9	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		24-Jun-15	< 10	< 0.33	< 0.32	< 0.28	< 0.26	< 0.36	5.82	< 0.26	< 0.40	< 0.60	< 0.37	< 0.78	< 0.319	< 0.38	< 0.40	< 1.20	< 0.26						
		10-Dec-15	< 1	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	5.7	< 0.093	< 0.15	1.07 J	0.248 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-37-INF	13-Mar-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**10**	< 0.093	< 0.15	0.92 (J)	0.37 (J)	< 0.50	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Oct-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**10**	< 0.093	< 0.15	0.84 (J)	0.64	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**10**	< 0.093	< 0.15	< 0.60	0.37 (J)	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		15-Jun-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	**8.68**	< 0.093	< 0.15	1.02 J	0.405 J	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Dec-15	< 1	< 0.090	< 0.086	< 0.15	0.237 J	< 0.11	**16**	< 0.093	< 0.15	1.26 J	0.64	< 0.10	0.197 J	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-37-EFF	13-Mar-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.6 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Oct-14	1.3 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		26-Dec-14	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.63 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		15-Jun-15	< 1	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	1.50 J	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		22-Dec-15	< 1	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	1.73 J	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-41 INF	20-Dec-13	1.4 (J)	< 0.090	< 0.086	< 0.15	0.60	< 0.11	**7.7**	< 0.093	< 0.15	**21**	**0.84**	< 0.10	< 0.094	0.33 (J)	< 0.15	< 0.13	< 0.12						
		5-Jan-15	5.1 (J)	< 0.090	< 0.086	< 0.15	0.76	**0.46 (J)**	**16**	< 0.093	< 0.15	**18**	**1.9**	< 0.10	< 0.094	**0.79**	< 0.15	< 0.13	< 0.12						
	WSW-41 ATSW	5-Jan-15	6.6	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	3	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
		10-Dec-15	< 1	< 0.090	0.549 J	< 0.15	0.92	0.52	**32.8**	< 0.093	< 0.15	**22.8**	**1.71**	< 0.10	0.544	**0.681**	0.67	< 0.13	< 0.12						
		8-Mar-16	5.67 J	< 0.09	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	2.66 J	0.206 J	0.15 J	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	WSW-49	20-Dec-13	1.3 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	< 0.60	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
QA/QC	DUPLICATE (6D)	16-Dec-13	1.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	0.56	< 0.093	< 0.15	1.6 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12	NA					
	DUPLICATE (5D)	17-Dec-13	< 1	< 0.090	0.43 (J)	0.48 (J)	1	**0.63**	**44**	< 0.093	< 0.15	**26**	**1.4**	< 0.10	0.65	**0.71**	0.88	< 0.13	< 0.12						
	FIELD BLANK	17-Dec-13	3.9 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	0.86 (J)	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	TRIP BLANK	--	2.1 (J)	< 0.090	< 0.086	< 0.15	< 0.11	< 0.11	< 0.19	< 0.093	< 0.15	NA	< 0.2	< 0.10	< 0.094	< 0.19	< 0.15	< 0.13	< 0.12						
	NCAC 2L		**6,000**	**1**	**70**	**3**	**6**	**0.4**	**7**	**60**	**60**	**3**	**0.7**	**600**	**200**	**0.6**	**3**	**2,000**	**0.03**	--					

Notes:
* - indicates duplicate sample collected from well
Concentrations in micrograms per liter (ug/L)
Highlighted data indicates levels exceeding NCAC 2L

(J) - indicates estimated value
NA - Not Analyzed
ATSW - American Truetzschler Supply well - treated

INF - Influent
EFF - Effluent

Table 3 - Historical Groundwater Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-1S	1-Apr-92	BDL	BDL	**4,300**	ND	BDL	**460**	**17,000**	BDL	ND	ND
	18-May-93	**136**	**150**	**900**	ND	**3**	**220**	**7,700**	BDL	ND	ND
	9-Dec-93	**110**	**73**	BDL	ND	**3.8**	BDL	**7,300**	BDL	ND	ND
	23-Mar-94	**120**	**22**	**2,200**	ND	**6.8**	**140**	**6,300**	BDL	ND	ND
	22-Jun-94	**80**	**38**	**1,830**	ND	**7**	**250**	**4,500**	BDL	ND	ND
	6-Oct-94	**43**	**64**	**1,700**	ND	BDL	**120**	**5,600**	BDL	ND	ND
	20-Dec-94	**48**	**39**	**1,200**	ND	**3.5**	**100**	**3,700**	BDL	ND	ND
	13-Mar-95	**37**	**17**	**870**	ND	**5**	**70**	**1,600**	BDL	ND	ND
	21-Jun-95	**42**	**31**	**990**	ND	**4**	**80**	**2,800**	BDL	ND	ND
	29-Sep-95	**26**	**3**	**1,400**	ND	**6.2**	**43**	**3,300**	BDL	ND	ND
	1-Feb-96	**29**	**7.6**	**800**	ND	**2.2**	**54**	**1,700**	BDL	ND	ND
	18-Jun-96	< 50	< 50	**500**	< 50	< 50	< 50	**1,100**	< 50	ND	ND
	3-Sep-96	< 10	< 10	**310**	< 10	< 10	**20**	**750**	< 10	ND	ND
	16-Dec-96	< 10	< 10	**200**	< 10	< 10	**10**	**420**	< 10	ND	ND
	26-Mar-97	5	< 5	**290**	< 5	< 5	**20**	< 5	< 5	ND	ND
	18-Jun-97	< 10	< 10	**490**	< 10	< 10	**17**	**610**	< 10	ND	ND
	17-Sep-97	**9.6**	**1.4**	**290**	< 1	**7.8**	**16**	**390**	< 1	ND	ND
	Dec-97 - Dec-09	NOT SAMPLED BY OTHERS									
	1/12-12/13	NOT SAMPLED - OBSERVED TO BE DRY									
MW-1D	1-Aug-92	BDL	BDL	**640**	ND	BDL	ND	**460**	BDL	ND	ND
	18-May-93	BDL	BDL	**264**	ND	**9**	BDL	76	BDL	ND	ND
	16-Dec-93	BDL	BDL	**82**	ND	**4.1**	BDL	28	BDL	ND	ND
	23-Mar-94	BDL	BDL	**140**	ND	**5.8**	BDL	51	BDL	ND	ND
	22-Jun-94	BDL	**3**	**190**	ND	**5**	BDL	38	BDL	ND	ND
	6-Oct-94	BDL	BDL	**65**	ND	**2.1**	BDL	18	BDL	ND	ND
	21-Dec-94	BDL	BDL	**36**	ND	**2.2**	BDL	11	BDL	ND	ND
	22-Jun-95	< 1	< 1	**56**	ND	< 1	< 1	23	< 1	ND	ND
	29-Sep-95	< 1	< 1	**54**	ND	< 1	< 1	21	< 1	ND	ND
	1-Feb-96	< 1	**1**	**94**	ND	**3.4**	< 1	32	< 1	ND	ND
	26-Mar-97	< 2	< 2	**130**	< 2	**2**	< 2	40	< 2	ND	ND
	17-Dec-98	< 1	< 1	6.9	< 1	< 1	< 1	< 1	< 1	ND	ND
	5-Dec-11	< 0.32	< 0.12	3.8	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	**4.7**
	16-Dec-13	< 0.11	< 0.11	1.7	< 0.093	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	**4**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene

Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene

TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-1V	29-Sep-95	**20**	< 1	**310**	NA	< 1	< 1	**230**	< 1	ND	ND
	1-Feb-96	**150**	**35**	**1,900**	NA	**7.6**	**78**	**1,200**	BDL	ND	ND
	19-Jun-96	**150**	**50**	**2,400**	< 50	< 50	**100**	**1,300**	< 50	ND	ND
	4-Sep-96	**120**	**40**	**2,200**	20	< 20	**120**	**1,200**	< 20	ND	ND
	17-Dec-96	**120**	**60**	**3,300**	40	< 20	**180**	**1,700**	< 20	ND	ND
	26-Mar-97	**75**	< 25	**3,200**	< 25	**50**	**75**	**1,200**	< 25	ND	ND
	19-Jun-97	< 100	< 100	**4,700**	< 100	< 100	< 100	**1,300**	< 100	ND	ND
	18-Sep-97	**86**	**28**	**2,600**	17	**47**	**56**	**1,000**	BDL	ND	ND
	11-Dec-97	**57**	**30**	**1,700**	17	**59**	**60**	**750**	BDL	ND	ND
	2-Jun-98	**73**	**19**	**4,200**	< 1	**59**	**47**	**970**	< 1	ND	ND
	17-Dec-98	**60**	**39**	**2,000**	< 1	**24**	**74**	**680**	< 1	ND	ND
	8-Jun-99	**54.6 (J)**	< 100	**1,700**	< 100	< 100	**56.4 (J)**	**540**	< 100	ND	ND
	21-Dec-99	**68**	**23**	**2,000**	< 1	**60**	**54**	**800**	< 1	ND	ND
	22-Jun-00	**24**	**17**	**970**	< 1	**13**	**23**	**320**	< 1	ND	ND
	20-Dec-00	**42**	**21**	**970**	8.8	**29**	**38**	**280**	BDL	ND	ND
	27-Jun-01	**44**	< 20	**400**	< 20	< 20	**32**	150	< 20	ND	ND
	17-Dec-01	< 20	< 20	**530**	< 20	< 20	**53**	< 20	< 20	ND	ND
	26-Jun-02	**44**	**16**	**540**	< 1	**24**	**42**	140	< 1	ND	ND
	17-Dec-02	**32**	< 20	**760**	< 20	**32**	**37**	**210**	< 20	ND	ND
	25-Jun-03	**29**	< 20	**440**	< 20	BDL	**23**	82	< 20	ND	ND
	18-Dec-03	**27**	< 20	**430**	< 20	< 20	**29**	120	< 20	ND	ND
	14-Jun-04	**35**	**20**	**330**	< 10	**13**	**32**	82	< 10	ND	ND
	7-Dec-04	**23**	< 10	**540**	< 10	**17**	**26**	71	< 10	ND	ND
	24-Jun-05	**26**	**11**	**570**	13	**22**	**23**	63	BDL	ND	ND
	21-Dec-05	**19**	< 5	**290**	< 5	**16**	**20**	59	< 5	ND	ND
	26-Jun-06	**15**	< 10	**180**	< 10	< 10	**17**	30	< 10	ND	ND
	12-Dec-06	**15**	**6.3**	**230**	< 5	**10**	**20**	27	< 5	ND	ND
	29-Jun-07	**13**	< 5	**200**	< 5	**4.8**	**17**	26	< 5	ND	ND
	20-Dec-07	**14.9**	< 5	**448**	< 5	**22.2**	**21.3**	38.5	< 5	ND	ND
	27-Jun-08	< 20	< 20	**434**	< 20	**21.2**	< 20	35.4	< 20	ND	ND
	12-Dec-08	**12.3**	< 10	**241**	< 10	**12.2**	**13.1**	16.7	< 10	ND	ND
	25-Jun-09	**10.5**	< 10	**128**	< 10	< 10	< 10	< 1	< 10	ND	ND
	12-Dec-09	**9.3**	**4.8**	**171**	1.9	**10.1**	**12.5**	11.6	1	ND	ND
	5-Dec-11	**14.5**	**4.4**	**329**	1.5	**19.9**	**9.8**	15	< 0.29	**2**	**259**
	16-Dec-13	**12**	**2.7**	**340**	1.1	**20**	**8.3**	8.9	< 0.19	**2**	**270**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene

Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene

TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-2S	1-Apr-92	BDL	BDL	**39**	ND	BDL	**4**	140	BDL	ND	ND
	23-Mar-94	2.1	BDL	**50**	ND	BDL	**3.2**	89	BDL	ND	ND
	22-Jun-94	3	**5**	**66**	ND	BDL	**6**	110	BDL	ND	ND
	6-Oct-94	1.2	**1.2**	**36**	ND	BDL	1.9	69	BDL	ND	ND
	20-Dec-94	1.7	**2.3**	**33**	ND	BDL	2.2	76	BDL	ND	ND
	13-Mar-95	BDL	BDL	**19**	ND	BDL	BDL	28	BDL	ND	ND
	21-Jun-95	< 1	< 1	**17**	ND	< 1	< 1	36	< 1	ND	ND
	29-Sep-95	< 1	< 1	**18**	ND	< 1	1	44	< 1	ND	ND
	1-Feb-96	< 1	< 1	**8.7**	ND	< 1	< 1	19	< 1	ND	ND
	18-Jun-96	< 1	< 1	2	< 1	< 1	< 1	8	< 1	ND	ND
	3-Sep-96	< 1	< 1	3	< 1	< 1	< 1	9	< 1	ND	ND
	16-Dec-96	< 1	< 1	2	< 1	< 1	< 1	8	< 1	ND	ND
	25-Mar-97	< 1	< 1	2	< 1	< 1	< 1	4	< 1	ND	ND
	18-Jun-97	< 1	< 1	**19**	< 1	< 1	< 1	30	< 1	ND	ND
	17-Sep-97	< 1	< 1	**7.9**	< 1	< 1	< 1	10	< 1	ND	ND
	1-Jun-98	< 1	< 1	**79**	< 1	< 1	< 1	35	< 1	ND	ND
	Dec-98 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	NOT SAMPLED - OBSERVED TO BE DRY									
MW-2D	1-Apr-92	BDL	BDL	**1,700**	ND	BDL	**28**	34	BDL	ND	ND
	18-May-93	**8**	**62**	**600**	ND	**6**	**51**	**400**	BDL	ND	ND
	16-Dec-93	**17**	**28**	**1,300**	ND	**6.4**	BDL	**880**	BDL	ND	ND
	23-Mar-94	**9.3**	**18**	**1,800**	ND	**7.3**	**50**	**930**	BDL	ND	ND
	22-Jun-94	**13**	**24**	**2,070**	ND	**9**	**49**	**1,480**	BDL	ND	ND
	6-Oct-94	5.8	**20**	**1,700**	ND	**5.2**	**40**	**910**	BDL	ND	ND
	20-Dec-94	BDL	**26**	**1,500**	ND	BDL	**43**	**790**	BDL	ND	ND
	13-Mar-95	**6**	**12**	**1,600**	ND	**4**	**23**	**600**	BDL	ND	ND
	21-Jun-95	**10**	**18**	**1,310**	ND	**2**	**31**	**550**	BDL	ND	ND
	29-Sep-95	4	**10**	**1,100**	ND	**8.4**	**28**	**450**	BDL	ND	ND
	1-Feb-96	3.5	**9.9**	**990**	ND	< 1	**18**	**460**	< 1	ND	ND
	19-Jun-96	< 50	< 50	**850**	< 50	< 50	< 50	**300**	< 50	ND	ND
	3-Sep-96	< 10	< 10	**730**	< 10	< 10	10	**300**	< 10	ND	ND
	17-Dec-96	< 10	< 10	**580**	< 10	< 10	< 10	190	< 10	ND	ND
	26-Mar-97	< 5	< 5	**500**	< 5	< 5	**5**	150	< 5	ND	ND
	19-Jun-97	< 10	< 10	**1,000**	< 10	< 10	< 10	**230**	< 10	ND	ND
	17-Sep-97	1.4	**2.6**	**520**	1.8	< 1	**7.2**	140	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-2D	10-Dec-97	< 1	1.6	190	1	< 1	2.4	44	< 1	ND	ND
	2-Jun-98	< 1	1.9	360	< 1	< 1	3	72	< 1	ND	ND
	17-Dec-98	1.1	2.6	310	1.1	1.9	5	62	< 1	ND	ND
	8-Jun-99	< 1	< 1	110	< 1	< 1	1.5	39	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	2-Dec-11	0.36 J	< 0.12	**32.2**	< 0.19	< 0.46	0.88 J	1.1	< 0.29	< 0.62	**22.5**
	16-Dec-13	< 0.11	< 0.11	**11**	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**9.1**
MW-2V	7-Oct-94	BDL	1.1	**79**	ND	1.4	BDL	37	BDL	ND	ND
	30-Dec-94	BDL	BDL	**89**	ND	BDL	BDL	36	BDL	ND	ND
	16-Mar-95	BDL	BDL	**80**	ND	BDL	3	21	BDL	ND	ND
	21-Jun-95	< 1	< 1	**31**	ND	< 1	< 1	11	< 1	ND	ND
	29-Sep-95	1.3	1.3	**58**	ND	< 1	< 1	29	< 1	ND	ND
	1-Feb-96	< 1	< 1	**44**	ND	< 1	< 1	20	< 1	ND	ND
	18-Jun-96	3	3	**52**	< 1	< 1	< 1	20	< 1	ND	ND
	3-Sep-96	1	1	**47**	< 1	< 1	< 1	23	< 1	ND	ND
	16-Dec-96	< 1	< 1	**36**	< 1	< 1	< 1	12	< 1	ND	ND
	26-Mar-97	< 1	< 1	6	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 10	< 10	**1,000**	< 10	< 10	< 10	280	< 10	ND	ND
	18-Sep-97	< 1	< 1	**77**	< 1	< 1	< 1	27	< 1	ND	ND
	9-Dec-97	< 1	< 1	**94**	< 1	1	< 1	25	< 1	ND	ND
	1-Jun-98	< 1	< 1	**78**	< 1	< 1	< 1	24	< 1	ND	ND
	16-Dec-98	< 1	< 1	**62**	< 1	< 1	< 1	18	< 1	ND	ND
	9-Jun-99	< 1	< 1	**40**	< 1	< 1	< 1	13	< 1	ND	ND
	21-Dec-99	< 1	< 1	**43**	< 1	< 1	< 1	18	< 1	ND	ND
	22-Jun-00	< 1	< 1	**18**	< 1	< 1	< 1	6.6	< 1	ND	ND
	20-Dec-00	2.5	< 1	**46**	< 1	< 1	< 1	6	< 1	ND	ND
	27-Jun-01	2.5	< 1	**25**	< 1	< 1	< 1	10	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Jun-02	3.9	< 1	**250**	< 1	5.5	5.9	39	< 1	ND	ND
	17-Dec-02	< 10	< 10	**210**	< 1	< 10	< 10	36	< 1	ND	ND
	25-Jun-03	2.9	2	**300**	< 1	4	4.6	60	< 1	ND	ND
	6-Jan-04	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	14-Jun-04	4.1	< 1	**59**	< 1	< 1	< 1	4.8	< 1	ND	ND
	7-Dec-04	1.6	< 1	**100**	< 1	3.3	3.2	13	< 1	ND	ND
	Jun-05 - Dec-05	NOT SAMPLED BY OTHERS									
	26-Jun-06	< 1	< 1	**50**	< 1	< 1	< 1	6.4	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-2V	12-Dec-06	< 1	< 1	**47**	< 1	**1**	1.3	5.4	< 1	ND	ND
	29-Jun-07	< 1	< 1	**8**	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-07	1.9	< 1	**179**	< 1	**2.6**	**3.1**	8.2	< 1	ND	ND
	27-Jun-08	< 1	< 1	**25**	< 1	< 1	1.3	< 1	< 1	ND	ND
	12-Dec-08	2.7	**1.4**	**136**	< 1	**4.5**	2.8	7.8	< 1	ND	ND
	25-Jun-09	NOT SAMPLED BY OTHERS									
	12-Dec-09	1.8	< 0.5	**23**	< 0.5	**0.95**	0.53	< 0.5	< 0.5	ND	ND
	Jan-12 - Dec-13	NOT SAMPLED - WELL DAMAGED, INACCESSIBLE									
MW-3S	1-Apr-92	ND	BDL	**39**	ND	1	BDL	34	BDL	ND	ND
	18-May-92	54	BDL	**26**	ND	BDL	BDL	16	BDL	ND	ND
	16-Dec-93	46	BDL	**24**	ND	BDL	BDL	15	BDL	ND	ND
	23-Mar-94	53	BDL	**22**	ND	BDL	BDL	12	BDL	ND	ND
	6-Oct-94	42	BDL	**15**	ND	BDL	BDL	8.2	BDL	ND	ND
	20-Dec-94	40	BDL	**15**	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	31	BDL	**13**	ND	BDL	BDL	6	BDL	ND	ND
	21-Jun-95	42	< 1	**9**	ND	< 1	< 1	9	< 1	ND	ND
	29-Sep-95	38	< 1	**12**	ND	< 1	< 1	6.3	< 1	ND	ND
	1-Feb-96	46	< 1	**8.6**	ND	< 1	< 1	4.9	< 1	ND	ND
	Jan-12 - Dec-13	NOT SAMPLED - ABANDONED									
MW-3D	1-Apr-92	BDL	BDL	**17**	ND	BDL	BDL	7	BDL	ND	ND
	18-May-93	BDL	BDL	**13**	ND	BDL	BDL	2	BDL	ND	ND
	16-Dec-93	BDL	BDL	2.3	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	**16**	ND	BDL	BDL	4	BDL	ND	ND
	21-Jun-94	BDL	BDL	**10**	ND	BDL	BDL	10	BDL	ND	ND
	6-Oct-94	BDL	BDL	1.6	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Dec-94	BDL	BDL	1.2	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	3.0	ND	BDL	BDL	< 1	BDL	ND	ND
	22-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	3.5	ND	< 1	< 1	1.6	< 1	ND	ND
	19-Jun-96	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jan-12 - Dec-13	NOT SAMPLED - ABANDONED									
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-3V	7-Oct-94	BDL	BDL	**8.7**	ND	BDL	BDL	3.9	BDL	ND	ND
	30-Dec-94	BDL	BDL	2.2	ND	BDL	BDL	1.5	BDL	ND	ND
	16-Mar-95	BDL	BDL	4	ND	BDL	BDL	2	BDL	ND	ND
	21-Jun-95	< 1	< 1	4	ND	< 1	< 1	5	< 1	ND	ND
	29-Sep-95	< 1	< 1	2.8	ND	< 1	< 1	1.4	< 1	ND	ND
	1-Feb-96	< 1	< 1	2.2	ND	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	3	< 1	< 1	< 1	1	< 1	ND	ND
	3-Sep-96	< 1	< 1	2	< 1	< 1	< 1	1	< 1	ND	ND
	16-Dec-96	< 1	< 1	7	< 1	< 1	< 1	2	< 1	ND	ND
	25-Mar-97	< 1	< 1	5	< 1	< 1	< 1	2	< 1	ND	ND
	18-Jun-97	< 1	< 1	**9.9**	< 1	< 1	< 1	2.5	< 1	ND	ND
	17-Sep-97	< 1	< 1	**7.7**	< 1	< 1	< 1	2.1	< 1	ND	ND
	9-Dec-97	< 1	< 1	**7**	< 1	< 1	< 1	2.7	< 1	ND	ND
	1-Jun-98	< 1	< 1	**11**	< 1	< 1	< 1	2.2	< 1	ND	ND
	16-Dec-98	< 1	< 1	**8.9**	< 1	< 1	< 1	2.2	< 1	ND	ND
	9-Jun-99	< 1	< 1	4.7	< 1	< 1	< 1	< 1	< 1	ND	ND
	22-Jun-00	< 1	< 1	5.1	< 1	< 1	< 1	2.4	< 1	ND	ND
	27-Jun-01	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-01 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	1.8	< 0.12	3.6	< 0.19	< 0.46	< 0.47	< 0.46	< 0.29	< 0.62	< 3
	17-Dec-13	2.1	< 0.11	**11**	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**5.5**
MW-4S	9-Dec-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	5-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Dec-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-4S	17-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	8-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	NOT SAMPLED - OBSERVED TO BE DRY									
	16-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	0.85 (J)
MW-4D	1-Apr-92	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	9-Dec-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	6	BDL	ND	ND
	5-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Dec-94	BDL	BDL	2.8	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	19-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	19-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	10-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	2-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	8-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-99	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-02 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	16-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	0.91 (J)
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-5	1-Aug-92	BDL	BDL	**41**	ND	**1**	ND	27	BDL	ND	ND
	17-May-93	BDL	BDL	**172**	ND	**3**	BDL	51	BDL	ND	ND
	23-Mar-94	BDL	BDL	**230**	ND	**5.7**	1.5	81	BDL	ND	ND
	21-Jun-94	3	**4**	**290**	ND	**6**	**3**	**220**	BDL	ND	ND
	6-Oct-94	BDL	**2**	**190**	ND	**5.2**	1.5	87	BDL	ND	ND
	20-Dec-94	BDL	**2.8**	**170**	ND	**5**	1.3	84	BDL	ND	ND
	13-Mar-95	BDL	**2**	**160**	ND	**6**	1	38	BDL	ND	ND
	21-Jun-95	1	**2**	**170**	ND	**5**	1	100	< 1	ND	ND
	29-Sep-95	< 1	**1**	**130**	ND	**5.6**	< 1	60	< 1	ND	ND
	1-Feb-96	1.4	**1.8**	**230**	ND	**5.8**	2	120	< 1	ND	ND
	25-Mar-97	CONVERTED TO AIR SPARGE WELL BY OTHERS									
	19-Jan-12	NOT SAMPLED - NOT LOCATED									
MW-5S	1-Aug-92	BDL	BDL	BDL	ND	BDL	ND	2	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	1.3	ND	BDL	BDL	1.8	BDL	ND	ND
	21-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	4	BDL	ND	ND
	6-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Dec-94	BDL	BDL	2	ND	BDL	BDL	2.4	BDL	ND	ND
	13-Mar-95	BDL	BDL	2	ND	BDL	BDL	3	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-97 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - OBSERVED TO BE DRY									
MW-5D	1-Aug-92	BDL	BDL	**92**	ND	**3**	ND	52	BDL	ND	ND
	17-May-93	BDL	BDL	**244**	ND	**7**	BDL	80	BDL	ND	ND
	23-Mar-94	BDL	BDL	**230**	ND	**6.2**	BDL	73	BDL	ND	ND
	21-Jun-94	BDL	**4**	**300**	ND	**7**	2	**230**	BDL	ND	ND
	6-Oct-94	BDL	**1.6**	**150**	ND	**4.6**	BDL	65	BDL	ND	ND
	20-Dec-94	BDL	**2.2**	**160**	ND	**4.2**	BDL	59	BDL	ND	ND
	13-Mar-95	BDL	**1**	**240**	ND	**8**	1	44	BDL	ND	ND
	21-Jun-95	< 1	**2**	**210**	ND	**8.1**	2	100	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-5D	29-Sep-95	< 1	**1.4**	**200**	ND	**6.1**	1.9	79	< 1	ND	ND
	1-Feb-96	< 1	**1.1**	**560**	ND	**6.1**	1.4	190	< 1	ND	ND
	19-Jun-96	< 10	< 10	**220**	< 10	< 10	< 10	70	< 10	ND	ND
	4-Sep-96	< 2	< 2	**190**	< 2	**4**	< 2	62	< 2	ND	ND
	16-Dec-96	< 2	< 2	**200**	< 2	**4**	< 2	64	< 2	ND	ND
	25-Mar-97	< 5	< 5	**230**	< 5	< 5	< 5	45	< 5	ND	ND
	18-Jun-97	< 1	**1.6**	**260**	< 1	**7.3**	1.6	110	< 1	ND	ND
	18-Sep-97	1.2	< 1	**230**	< 1	**5.1**	1	51	< 1	ND	ND
	10-Dec-97	1.3	< 1	**300**	< 1	**4.5**	1.3	32	< 1	ND	ND
	2-Jun-98	< 1	< 1	**220**	< 1	**4.6**	< 1	42	< 1	ND	ND
	17-Dec-98	< 1	< 1	**120**	< 1	**2.7**	< 1	20	< 1	ND	ND
	8-Jun-99	< 5	< 5	**78**	< 5	< 5	< 5	16	< 5	ND	ND
	21-Dec-99	3.6	< 1	**53**	< 1	< 1	< 1	24	< 1	ND	ND
	20-Dec-00	3.5	< 1	**58**	< 1	**2.5**	< 1	14	< 1	ND	ND
	18-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-02	3.8	< 1	**110**	< 1	**2.8**	< 1	17	< 1	ND	ND
	18-Dec-03	< 5	< 5	**44**	< 5	< 5	< 5	7.4	< 5	ND	ND
	7-Dec-04	2.6	< 1	**140**	< 1	**4.1**	2.1	16	< 1	ND	ND
	24-Jun-05	2.8	**1.5**	**200**	2.4	**4.2**	2.3	20	< 1	ND	ND
	21-Dec-05	< 1	< 1	**200**	< 1	**4.4**	2.4	14	< 1	ND	ND
	26-Jun-06	< 5	< 5	**180**	< 5	< 5	< 5	15	< 5	ND	ND
	12-Dec-06	< 5	< 5	**190**	< 5	< 5	< 5	11	< 5	ND	ND
	29-Jun-07	< 5	< 5	**150**	< 5	< 5	< 5	11	< 5	ND	ND
	20-Dec-07	< 5	< 5	**140**	< 5	< 5	< 5	9.2	< 5	ND	ND
	27-Jun-08	< 5	< 5	**171**	< 5	< 5	< 5	9.2	< 5	ND	ND
	12-Dec-08	< 5	< 5	**217**	< 5	< 5	< 5	7.6	< 5	ND	ND
	25-Jun-09	< 5	< 5	**136**	< 5	< 5	< 5	6	< 5	ND	ND
	12-Dec-09	1.6	**1.3**	**166**	0.71	**4.4**	2.2	< 0.5	0.53	ND	ND
	2-Dec-11	1.5	**0.99 J**	**91.2**	0.46 J	**2.5**	1.5	2.1	**0.74 J**	< 0.62	**27**
	17-Dec-13	0.89	**0.61**	**43**	< 0.093	**1.8**	1	0.76	**0.79**	< 0.62	**28**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-6S	1-Apr-92	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	5-Oct-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	20-Dec-94	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	13-Mar-95	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	21-Jun-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	2-Dec-11	< 0.32	< 0.12	< 0.56	2.2	**2.2**	0.63 J	< 0.48	< 0.29	< 0.62	**19.6**
	16-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**18**
MW-6D	1-Aug-92	BDL	BDL	BDL	ND	BDL	BDL	1	BDL	ND	ND
	17-May-93	BDL	BDL	BDL	ND	BDL	BDL	BDL	BDL	ND	ND
	23-Mar-94	BDL	BDL	1.5	ND	BDL	BDL	1.1	BDL	ND	ND
	21-Jun-94	BDL	BDL	6	ND	BDL	BDL	14	BDL	ND	ND
	5-Oct-94	BDL	BDL	2.7	ND	BDL	BDL	1.2	BDL	ND	ND
	21-Dec-94	BDL	BDL	2.3	ND	BDL	BDL	1	BDL	ND	ND
	14-Mar-95	BDL	BDL	4	ND	BDL	BDL	2	BDL	ND	ND
	22-Jun-95	< 1	< 1	4	ND	< 1	< 1	4	< 1	ND	ND
	29-Sep-95	< 1	< 1	3.7	ND	< 1	< 1	1.7	< 1	ND	ND
	1-Feb-96	< 1	< 1	4.5	ND	< 1	< 1	2.4	< 1	ND	ND
	19-Jun-96	< 1	< 1	5	< 1	< 1	< 1	2	< 1	ND	ND
	4-Sep-96	< 1	< 1	**8**	< 1	< 1	< 1	2	< 1	ND	ND
	17-Dec-96	< 1	< 1	**7**	< 1	< 1	< 1	2	< 1	ND	ND
	25-Mar-97	< 1	< 1	**7**	< 1	< 1	< 1	2	< 1	ND	ND
	19-Jun-97	< 1	< 1	**18**	< 1	< 1	< 1	5.1	< 1	ND	ND
	17-Sep-97	< 1	< 1	**12**	< 1	< 1	< 1	4.2	< 1	ND	ND
	10-Dec-97	< 1	< 1	**14**	< 1	< 1	< 1	4.7	< 1	ND	ND
	2-Jun-98	< 1	< 1	**41**	< 1	< 1	< 1	9.1	< 1	ND	ND
	17-Dec-98	< 1	< 1	**35**	< 1	< 1	< 1	10	< 1	ND	ND
	8-Jun-99	< 1	< 1	**44**	< 1	< 1	< 1	13	< 1	ND	ND
	21-Dec-99	< 1	< 1	**57**	< 1	< 1	< 1	17	< 1	ND	ND
	22-Jun-00	< 1	< 1	**27**	< 1	< 1	< 1	8.9	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-6D	20-Dec-00	< 1	< 1	**58**	< 1	< 1	< 1	18	< 1	ND	ND
	27-Jun-01	< 1	< 1	**34**	< 1	< 1	< 1	8.3	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Jun-02	< 1	< 1	**22**	< 1	< 1	< 1	3.5	< 1	ND	ND
	17-Dec-02	< 1	< 1	**12**	< 1	< 1	< 1	3.5	< 1	ND	ND
	25-Jun-03	< 1	< 1	**13**	< 1	< 1	< 1	1.6	< 1	ND	ND
	18-Dec-03	< 1	< 1	6.8	< 1	< 1	< 1	1.1	< 1	ND	ND
	14-Jun-04	< 1	< 1	**12**	< 1	< 1	< 1	1.4	< 1	ND	ND
	7-Dec-04	< 1	< 1	**8.4**	< 1	< 1	< 1	< 1	< 1	ND	ND
	24-Jun-05	< 1	< 1	**9.2**	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-05	< 1	< 1	5	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Jun-06	< 1	< 1	**7.1**	< 1	< 1	< 1	< 1	< 1	ND	ND
	12-Dec-06	< 1	< 1	5.5	< 1	< 1	< 1	< 1	< 1	ND	ND
	29-Jun-07	< 1	< 1	4.8	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-07	< 1	< 1	3.9	< 1	< 1	< 1	< 1	< 1	ND	ND
	27-Jun-08	< 1	< 1	2.5	< 1	< 1	< 1	< 1	< 1	ND	ND
	12-Dec-08	< 1	< 1	4.3	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Jun-09	< 1	< 1	3.4	< 1	< 1	< 1	< 1	< 1	ND	ND
	12-Dec-09	< 0.5	< 0.5	3.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	ND
	2-Dec-11	< 0.32	< 0.12	2.2	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	16-Dec-13	< 0.11	< 0.11	0.49	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	1.9
MW-7	8-Aug-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	< 1	ND
	19-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	4-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	Dec-96 - Dec-09	NOT SAMPLED - REPORTED TO BE DRY BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - OBSERVED TO BE DRY									
MW-7S	1-Aug-92	BDL	BDL	BDL	ND	BDL	ND	2	BDL	ND	ND
	29-Sep-95	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-99 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	NOT SAMPLED - OBSERVED TO BE DRY									
	Jan-12 - Dec-13	NOT SAMPLED - INSUFFICIENT VOLUME									
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-8	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-02 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	17-Dec-13	< 0.11	< 0.11	0.57	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	1.1
MW-9	29-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	< 1	ND
	1-Feb-96	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	< 1	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	25-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	18-Jun-97	< 1	< 1	4.4	1.7	**1.4**	1.9	4.2	< 1	ND	ND
	17-Sep-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	9-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	21-Dec-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
	Jun-00 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	17-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**6**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-10	29-Sep-95	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Feb-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	3-Sep-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-96	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	26-Mar-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Jun-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Sep-97	< 1	< 1	< 1	< 1	**1.1**	< 1	< 1	< 1	ND	ND
	9-Dec-97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	1-Jun-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	16-Dec-98	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	9-Jun-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	21-Dec-99	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	20-Dec-00	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	17-Dec-01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND	ND
	Jun-02 - Dec-09	NOT SAMPLED BY OTHERS									
	19-Jan-12	< 0.32	< 0.12	< 0.56	< 0.19	< 0.46	< 0.47	< 0.48	< 0.29	< 0.62	< 3
	17-Dec-13	< 0.11	< 0.11	< 0.19	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	0.79
MW-18	26-Sep-95	< 1	< 1	< 1	ND	< 1	< 1	< 1	< 1	ND	ND
	4-Sep-96	< 1	< 1	6	< 1	< 1	< 1	3	< 1	ND	ND
	17-Dec-96	3	< 1	**21**	< 1	< 1	2	10	< 1	ND	ND
	26-Mar-97	< 1	< 1	6	< 1	< 1	< 1	2	< 1	ND	ND
	19-Jun-97	< 1	< 1	4	< 1	< 1	< 1	< 1	< 1	ND	ND
	18-Sep-97	1.7	< 1	**12**	< 1	< 1	< 1	4.2	< 1	ND	ND
	11-Dec-97	3	< 1	**14**	< 1	< 1	< 1	4.1	< 1	ND	ND
	2-Jun-98	1.3	< 1	**14**	< 1	< 1	< 1	2.7	< 1	ND	ND
	17-Dec-98	2.2	< 1	**14**	< 1	< 1	< 1	8.7	< 1	ND	ND
	8-Jun-99	**9.4**	< 1	**20**	< 1	**2.5**	< 1	11	< 1	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
MW-19	Sep-96 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
MW-20	29-Sep-95	< 1	**37**	**3,200**	ND	**57**	**47**	**1,100**	< 1	ND	ND
	4-Sep-96	< 10	< 10	**410**	< 10	< 10	< 10	40	< 10	ND	ND
	17-Dec-96	< 10	< 10	**410**	< 10	< 10	< 10	60	< 10	ND	ND
	26-Mar-97	< 10	< 10	**1,300**	< 10	< 10	**40**	**440**	< 10	ND	ND
	19-Jun-97	< 100	< 100	**1,900**	< 100	< 100	< 100	**630**	< 100	ND	ND
	18-Sep-97	**20**	**21**	**1,500**	10	**6.3**	**56**	**750**	BDL	ND	ND
	11-Dec-97	**15**	**18**	**670**	8.1	**1.2**	**26**	**220**	BDL	ND	ND
	2-Jun-98	**26**	**26**	**1,400**	11	**12**	**61**	**430**	BDL	ND	ND
	17-Dec-98	**42**	**39**	**3,000**	19	**44**	**100**	**920**	BDL	ND	ND
	8-Jun-99	< 20	< 20	**960**	< 20	< 20	< 20	**380**	< 20	ND	ND
	Dec-99 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
MW-21	Sep-96 - Dec-09	NOT SAMPLED BY OTHERS									
	Jan-12 - Dec-13	NOT SAMPLED - NOT LOCATED									
MW-22	25-Jun-14	< 0.11	< 0.11	**8.1**	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	**9.2**
MW-23	30-Mar-15	< 0.26	< 0.36	6.5	< 0.26	< 0.37	< 0.40	< 0.32	< 0.38	< 0.26	1.4 J
MW-24	5-Feb-16	< 0.11	< 0.11	1.38	< 0.093	< 0.2	< 0.15	< 0.094	< 0.19	< 0.12	< 0.60
WSW-41 (PW-1)	1-Apr-92	BDL	BDL	**1,100**	ND	**40**	BDL	**760**	BDL	ND	ND
	21-Jun-95	**19**	< 1	**1,670**	ND	**60**	**25**	**700**	< 1	ND	ND
	29-Sep-95	**10**	**8.4**	**1,200**	ND	**42**	**15**	**440**	BDL	ND	ND
	1-Feb-96	**12**	**11**	**1,200**	ND	**42**	**18**	**550**	BDL	ND	ND
	18-Jun-96	< 50	< 50	**1,100**	< 50	< 50	< 50	**350**	< 50	ND	ND
	3-Sep-96	< 10	< 10	**1,200**	< 10	**40**	**10**	**410**	< 10	ND	ND
	17-Dec-96	< 10	< 10	**260**	< 10	< 10	< 10	70	< 10	ND	ND
	26-Mar-97	< 10	< 10	**460**	< 10	**20**	< 10	170	< 10	ND	ND
	18-Jun-97	< 10	< 10	**910**	< 10	< 10	< 10	**240**	< 10	ND	ND
	18-Sep-97	**8.9**	**7.3**	**770**	4	**24**	**14**	**230**	BDL	ND	ND
	9-Dec-97	**9.3**	**7.1**	**580**	4.4	**22**	**14**	**210**	BDL	ND	ND
	2-Jun-98	**6.1**	**5.4**	**530**	1.6	**17**	**11**	120	BDL	ND	ND
	16-Dec-98	5.6	**3.8**	**380**	2	**15**	**8**	88	BDL	ND	ND
	9-Jun-99	< 1	< 1	**44**	< 1	< 1	< 1	12	< 1	ND	ND
	21-Dec-99	5.3	**2.9**	**230**	< 1	**12**	**7.6**	76	< 1	ND	ND
	22-Jun-00	3	< 1	**250**	< 1	**4.7**	**3.1**	21	< 1	ND	ND
	20-Dec-00	2.5	**2.5**	**180**	1.2	**3.1**	**11**	42	< 1	ND	ND
	27-Jun-01	< 5	< 5	**140**	< 5	< 5	**5.8**	31	< 5	ND	ND
	17-Dec-01	< 5	< 5	**210**	< 5	< 5	**13**	21	< 5	ND	ND
	26-Jun-02	2.3	< 1	**140**	< 1	**6.9**	**7**	30	< 1	ND	ND
	17-Dec-02	< 5	< 1	**150**	< 5	< 5	< 5	17	< 5	ND	ND
	25-Jun-03	< 1	< 1	**23**	< 1	< 1	< 1	3.2	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
WSW-41 (PW-1)	18-Dec-03	1.2	< 1	**130**	< 1	**3.8**	**5.4**	19	< 1	ND	ND
	14-Jun-04	< 1	< 1	**34**	< 1	< 1	< 1	4.1	< 1	ND	ND
	7-Dec-04	1.5	< 1	**77**	< 1	**3.6**	**3.7**	13	< 1	ND	ND
	24-Jun-05	2.9	**1.9**	**190**	< 1	**8.1**	**3.7**	19	< 1	ND	ND
	21-Dec-05	< 5	< 5	**180**	< 5	**10**	< 5	13	< 5	ND	ND
	26-Jun-06	< 5	< 5	**150**	< 5	**9.9**	< 5	15	< 5	ND	ND
	12-Dec-06	< 5	< 5	**120**	< 5	**7**	< 5	8.4	< 5	ND	ND
	29-Jun-07	< 5	< 5	**87**	< 5	**9.5**	< 5	11	< 5	ND	ND
	20-Dec-07	< 5	< 5	**61.9**	< 5	**5.2**	< 5	7.8	< 5	ND	ND
	27-Jun-08	1.3	< 5	**52.1**	< 5	**8.4**	< 5	4.9	< 5	ND	ND
	12-Dec-08	1.1	< 1	**55.2**	< 1	**3.8**	1.4	3.5	< 1	ND	ND
	25-Jun-09	< 1	< 1	**40.1**	< 1	**2.7**	1	2.2	1.1	ND	ND
	12-Dec-09	0.61	< 0.5	**16.9**	< 0.5	**1.6**	< 0.5	1.7	0.77	ND	ND
	6-Dec-11	0.36 J	0.32 J	**37.3**	< 0.19	**1.8**	1.5	2.6	1.2	< 0.62	**21.3**
	20-Dec-13	0.60	< 0.11	**7.7**	< 0.093	**0.84**	< 0.15	< 0.094	0.33 J	< 0.12	**21**
	5-Jan-15	0.76	**0.46 J**	**16**	< 0.093	**1.9**	< 0.15	< 0.094	**0.79**	< 0.12	**18**
	10-Dec-15	0.92	0.52	**32.8**	< 0.093	**1.71**	0.67	0.544	**0.681**	< 0.12	**22.8**
	8-Mar-16	< 0.11	< 0.11	< 0.19	< 0.093	0.206 J	< 0.15	< 0.094	< 0.19	< 0.12	2.66 J
RW-1	14-Jun-96	< 10	< 10	**450**	< 10	**10**	< 10	140	< 10	ND	ND
	4-Sep-96	< 10	< 10	**360**	< 10	< 10	< 10	80	< 10	ND	ND
	17-Dec-96	< 10	< 10	**560**	< 10	**10**	< 10	180	< 10	ND	ND
	26-Mar-97	< 10	< 10	**540**	< 10	**10**	< 10	90	< 10	ND	ND
	18-Jun-97	< 10	< 10	**900**	< 10	< 10	< 10	**200**	< 10	ND	ND
	18-Sep-97	4.4	**4.1**	**610**	3	**14**	**5.7**	160	BDL	ND	ND
	9-Dec-97	3.5	**2.1**	**470**	2.1	**8.1**	**3.9**	160	BDL	ND	ND
	1-Jun-98	3.4	**3.1**	**560**	1.8	**11**	**4.4**	120	BDL	ND	ND
	16-Dec-98	3.4	**2.7**	**390**	1.9	**9.8**	**4.2**	92	BDL	ND	ND
	9-Jun-99	< 10	< 10	**270**	< 10	< 10	< 10	69	< 10	ND	ND
	21-Dec-99	1.3	< 1	**170**	< 1	**2.9**	< 1	56	< 1	ND	ND
	22-Jun-00	3.1	< 1	**140**	< 1	**2.9**	2.2	18	< 1	ND	ND
	20-Dec-00	2.5	< 1	**100**	< 1	**3.1**	1.8	17	< 1	ND	ND
	27-Jun-01	< 5	< 5	**90**	< 5	< 5	< 5	32	< 5	ND	ND
	17-Dec-01	< 5	< 5	**73**	< 5	< 5	< 5	< 5	< 5	ND	ND
	26-Jun-02	< 1	< 1	**59**	< 1	< 1	< 1	14	< 1	ND	ND
	17-Dec-02	< 2	< 2	**58**	< 2	< 2	< 2	14	< 2	ND	ND
	25-Jun-03	< 1	< 1	**46**	< 1	< 1	< 1	7.7	< 1	ND	ND
	20-Jan-04	2.8	< 1	**170**	< 1	**2.5**	**3.7**	22	< 1	ND	ND
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene

Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene

TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 3 - Historical Groundwater Analytical Data (Continued)
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	1,1,1-TCA	1,1,2-TCA	VCE	1,4-Dioxane
RW-1	14-Jun-04	1.4	**2.5**	**54**	< 1	**4**	**5.5**	28	< 1	ND	ND
	7-Dec-04	< 1	< 1	**160**	< 1	< 1	< 1	20	< 1	ND	ND
	24-Jun-05	2.3	**2.4**	**200**	< 1	**3**	1.1	22	< 1	ND	ND
	21-Dec-05	< 1	< 1	**130**	< 1	**2.4**	**3.6**	17	< 1	ND	ND
	26-Jun-06	< 5	< 5	**100**	< 5	< 5	< 5	15	< 5	ND	ND
	12-Dec-06	< 5	< 5	**85**	< 5	< 5	< 5	6.1	< 5	ND	ND
	29-Jun-07	< 5	< 5	**140**	< 5	< 5	< 5	13	< 5	ND	ND
	20-Dec-07	< 5	< 5	**112**	< 5	< 5	< 5	9	< 5	ND	ND
	27-Jun-08	< 5	< 5	**79.1**	< 5	< 5	< 5	6	< 5	ND	ND
	12-Dec-08	2.3	**1.3**	**129**	< 1	**4.4**	2.8	7.8	< 1	ND	ND
	25-Jun-09	< 10	< 10	**90**	< 10	< 10	< 10	< 10	< 10	ND	ND
	12-Dec-09	1.3	**1.1**	**72.9**	< 0.5	< 0.5	1.5	3.5	1	ND	ND
	6-Dec-11	1.9	**1.2**	**85.7**	0.37 J	**4.2**	1.5	2.6	1.2	< 0.62	**36.9**
	3-Dec-14	1	**0.65**	**45**	< 0.093	**2.4**	1.1	0.96	0.82	< 0.12	**39**
	2-Jan-14	0.88	**0.68**	**29**	< 0.093	**2**	0.74	0.7	0.86	< 0.12	**30**
	13-Mar-14	1.1	**0.7**	**39**	< 0.093	**2.1**	0.81	0.89	0.93	< 0.12	**35**
	21-Apr-14	1	**0.63**	**47**	< 0.093	**2.4**	0.84	0.86	0.8	< 0.12	**30**
	5-May-14	1	**0.58**	**44**	< 0.093	**3**	0.96	0.88	0.98	< 0.12	**25**
	9-Jun-14	0.98	**0.65**	**45**	< 0.093	**2.1**	0.87	0.8	0.84	< 0.12	**37**
	16-Jul-14	0.95	**0.56**	**29**	< 0.093	**1.8**	0.75	0.67	0.73	< 0.12	**32**
	11-Aug-14	0.94	**0.58**	**40**	< 0.093	**2.1**	0.85	0.73	0.74	< 0.12	**38**
	3-Sep-14	1	**0.66**	**44**	< 0.093	**1.9**	0.71	0.77	0.75	< 0.12	**28**
NCAC 2L		**6**	**0.4**	**7**	**60**	**0.7**	**3**	**200**	**0.6**	**0.03**	**3**

Notes: Concentrations in micrograms per liter (ug/L)
DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding NCAC 2L
ND - No Data
PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene
VCE - Vinyl Chloride

Table 4 - Remediation System Evaluation Data
American Truetzschler Facility
Charlotte, North Carolina

Well ID No.	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	PCE	TCE	1,1,1-TCA	Chronic Toxicity (90% P/F)	Avg Treatment Efficency (%)	Discharge Rate (mgpd)
Influent	22-Apr-15	1.01	**0.588**	35.1	1.92	0.618	0.639	--	94.7%	0.000000
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	15-Jun-15	0.728	**0.443 J**	31.9	2.04	0.681	0.446 J	P	94.2%	0.014107
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	23-Sep-15	1.03	**0.57**	33.3	2.36	0.631	0.55	**F**	94.5%	0.001653
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	26-Oct-15	0.776	**0.48 J**	28.4	1.45	0.611	0.486 J	P	93.4%	0.000050
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	23-Nov-15	0.88	**0.552**	29.9	1.73	0.627	0.459 J	--	93.8%	0.013683
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	10-Dec-15	0.761	**0.464 J**	23.8 J6	1.57	< 0.153	0.449 J	--	92.2%	0.022283
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	27-Jan-16	0.77 J	**0.491 J**	31.2	1.88	0.639	0.437 J	**F**	94.0%	0.006730
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
Influent	24-Feb-16	0.652	**0.398 J**	38.8	1.66	0.576	0.415 J	P	95.0%	0.006350
Effluent		< 0.26	< 0.36	< 0.40	< 0.37	< 0.40	< 0.32			
NPDES Permit Limit		**--**	**0.38**	**--**	**--**	**--**	**--**	**F**	**--**	**< 0.05**

Notes:
System was inoperable in April - May 2015, RW-1 was turned on to grab a sample, no discharge was generated. The system was temporarly down on August 24-25, September 23-30, and October 8-28 of 2015, and February 17, 2016.
Avg Efficiency = removal of total NPDES permit constituents of concern for both Efflent discharge
Concentrations in micrograms per liter (ug/L)

DCA - Dichloroethane
DCE - Dichloroethene
Highlighted data indicates levels exceeding Permit Limit
Influent - sample collected from RW-1
ND - No Data

PCE - Tetrachloroethene
TCA - Trichloroethane
TCE - Trichloroethene

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
1	05312203 05312202	5312/5318 Heavy Equipment School Rd	William Ray 5312 Heavy Equipment School Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,110 feet]	Survey mailed, no response; confirmed with 7/19/2011 field survey; subsequent field survey 7/25/2012 - not in service	704 399-4555
2	05312204 - 7	5124, 5224 & 5330 Heavy Equipment School Rd	Dales Group LLC PO Box 550205 Gastonia 28055	In use drinking water supply well reported by CH2MHill Receptor Survey; [955 feet]; PIDs 5132204, 06 and 07 vacant	Survey mailed, no response; could not confirm with 7/15/2011 field survey; field survey 7/25/2012 - not in service	Not Listed
3	05312208	5020 Heavy Equipment School Rd	Dorothy Hoffman 5020 Heavy Equipment School Rd Charlotte 28214	In use drinking water supply well reported by EFI mailed survey; [1,230 feet]	Drinking & Irrigation Uses Installed: 1963; confirmed with 7/19/2011 field survey	704 339-8356
4	05312209	5010 Heavy Equipment School Rd	Leslie Hare 5010 Heavy Equipment School Rd Charlotte 28214	In use drinking water supply well reported by EFI mailed survey; [1,350 feet] 35.2608,-81.000255	Drinking & Irrigation Uses; Depth: 300' Installed: Unknown; confirmed with 7/19/2011 field survey	704 393-3621
5	05312210	12150 Moores Chapel Rd	Edward Parrott 12150 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [1,495 feet] 35.261227,-80.999437	Visually confirmed with 7/15/2011 field survey; permitted with MCDEP. Depth 60'	704 399-5112
6	05312211	12132 Moores Chapel Rd	Robert McGee Summerville 12132 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,725 feet]	Survey mailed, no response; could not confirm with 7/15/2011 field survey	Not Listed
7	05312212	12120 Moores Chapel Rd	Truet & Gene Auten 12120 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,915 feet];	Survey mailed, no response; could not confirm with 7/15/2011 field survey	704 399-6924
8	05312219	12108 Moores Chapel Rd	Charles Auten 12108 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,085 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	704 394-5812
9	05312214	12004 Moores Chapel Rd	Louise Joye 12004 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,555 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	Not Listed
10	05312220	11942 Moores Chapel Rd	Charles Joye 11942 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,910 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	704 399-0973
11	05313212	12017 Moores Chapel Rd	Sandra Mullis 12017 Moores Chapel Rd Charlotte 28214	In use drinking water supply well Reported by Mailed Survey; [2,460 feet]	Drinking water Use Installed: 1980 casing 70', TD 75'	704 910-0478
12	05313208	12121 Moores Chapel Rd	Peter Greene 12121 Moores Chapel Rd Charlotte 28214	In use drinking water supply well Reported by Mailed Survey; [2,050 feet]	Drinking water Use Depth: Unknown Installed: Unknown	704 394-4381
13	05313209	12131 Moores Chapel Rd	Mell & Guniver Summerville 3716 Devonwood Ln Charlotte 28208	In use drinking water supply well reported by EFI Receptor Survey; [1,855 feet]	Survey mailed, no response; could not confirm with 7/19/2011 field survey	704 399-5679
14	05313210	12201 Moores Chapel Rd	J.C. Barefoot Properties PO Box 19006 Charlotte 28219	In use drinking water supply well reported by EFI mailed survey; [1,750 feet]	Drinking water Use Depth: Unknown Installed: 1947	704 393-7421
15	05313211	12301 Moores Chapel Rd	Knox Group 85 S Industrial LLC PO Box 2608 Cornelius 28031	In use drinking water supply well reported by EFI mailed survey; [1,480 feet]	Drinking water & Irrigation Uses Depth: Unknown Installed: 1973	704 655-0540
16	05313116	4200 Performance Rd	DDB Holdings LLC 4200 Performance Rd Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [2,785 feet]	Drinking water & Irrigation Uses Depth: Unknown Installed: 1981	704 394-3300
17	05317426	12438 Moores Chapel Rd	Mary & Scott Ross 6101 Eastland Ct SE Rome GA 30161	In use drinking water supply well reported by EFI Receptor Survey; [770 feet]	Survey mailed, no response; confirmed with 7/19/2011 field survey	706 290-9324
18	05316102	12409 Moores Chapel Rd	Donald Black 12409 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,090 feet]	Survey mailed, no response; could not confirm with 7/19/2011 field survey	704 399-0909
19	05316103	12501 Moores Chapel Rd	Joni Lynn Horne 12501 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,125 feet] 35.256575,-80.999612	Survey mailed, no response; could not confirm with 7/19/2011 field survey	704 391-2265
20	05316104	12509 Moores Chapel Rd	Betty Bradshaw 12509 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,140 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	phone disconnected
21	05316105	12601 Moores Chapel Rd	Nada Bradshaw 4811 Drakestone Ct Charlotte 28226	In use drinking water supply well reported by EFI Receptor Survey; [1,405 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	Not Listed
22	05316106	12615 Moores Chapel Rd	Maurice & Ethel Allen 12615 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,560 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey	704 391-7419
23	05316115	12625 Moores Chapel Rd	Howard & Johnsie Hudgins 186 Friendship Rd Statesville 28625	In use drinking water supply well reported by Mailed Survey; [1,665 feet]	Survey mailed; visually confirmed with 7/19/2011 field survey Installed: 1995 casing 120' TD 220'	704 876-6885
24	05316108	12701 Moores Chapel Rd	Dorothy Auten 12701 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,840 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 399-6523
25	05316110	12725 Moores Chapel Rd	Lori Ann Chadwick & James Auten 12725 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,010 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 568-7550
26	05316117	12711 Moores Chapel Rd	James Auten & Lori Ann Chadwick 10236 Ashley Farm Dr Matthews 28105	In use drinking water supply well reported by EFI Receptor Survey; [2,115 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 568-7550
27	05316111	12803 Moores Chapel Rd	Tien Van Nguyen & Thuy Bui Nguyen 411 N Central Ave Belmont 28012	In use drinking water supply well reported by EFI Receptor Survey; [2,120 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey; permitted with MCDEP	704 825-3119

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
28	05316112	12811 Moores Chapel Rd	David Stefman & Nancy Swisshelm 12811 Moores Chapel Rd Charlotte 28214	In use drinking water supply well Reported by EFI Receptor Survey; [2,205 feet]	Survey mailed, no response; visually confirmed with 7/19/2011 field survey; Depth: Unknown Installed: Unknown	Not Listed
29	05316113	12821 Moores Chapel Rd	Shealy Edsel & Betty Scruggs 12821 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,445 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 393-1260
30	05324121	12726 Moores Chapel Rd	Michael & Deborah Mustin 12726 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,975 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 393-3467
31	05324115	12706 Moores Chapel Rd	Susan Jones 12706 Moores Chapel Rd Charlotte 28214	In use water supply well reported by 6/28/2011 telephone interview; [2,465 feet]; 35.255131, -81.00611	Drinking & Swimming Use Depth: Unknown Installed: 2001; 6" Diameter	704 697-0041
32	05317440	12636 Moores Chapel Rd	Robert & Pamela Parker 12636 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [1,520 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 399-9992
33	05317441	12624 Moores Chapel Rd	Joel Horwich PO Box 1490 Belmont 28012	In use water supply well reported by 6/29/11 telephone interview; [1,470 feet]	Irrigation & Bathing Use; Depth: Unknown Installed: Unknown	704-391-1000
34	05317407	12546 Moores Chapel Rd	Derek Kersey & Karen Bragg 4109 Carolina Pointe Ct Concord 28027	In use drinking water supply well; permitted well per Mecklenburg County Well System; [1,730 feet]; 35.25217, -81.00668	Survey mailed, no response; well sampled 2/26/2009; no exceedences Installed 2/17/2009, casing 114', TD 200 ', 6" diameter	704 786-8637
35	05317403	12510 Moores Chapel Rd	Joseph Recore 12510 Moores Chapel Rd Charlotte 28214	In use drinking water supply Well reported by Cooper Environmental Survey; [2,145 feet] 35.252703,-81.008189	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704-813-8155
36	05317402	10235 Harbor Dr	Sharon Ryerson 10235 Harbor Dr Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [2,400 feet] 35.253180; -81.007984	Installed 12/15/2008, casing 134', TD 185' 6" diameter Well sampled 7/29/2009; 5 ppb 1,1 DCE	704 391-1576
37	05317401	10335 Harbor Dr	Stephen Woodruff & David Jones 10335 Harbor Dr Charlotte 28214	In use drinking water supply well reported by EFI Receptor Survey; [2,055 feet] 35.254329; -81.007346	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704-813-2695
38	05317241	5317 Cold Harbor Dr	Louis Bolton 5317 Cold Harbor Dr Charlotte 28214	Supply Well reported by On-Site Survey; use not confirmed; [2,270 feet]	Survey mailed, no response; Confirmed with 7/19/2011 field survey	704 392-3332
39	NCDOT	Weigh Station 505 NB I-85, Charlotte	NCDOT 1550 Mail Svc Ctr Raleigh 27699	Permitted Well per Mecklenburg County Well Info System; [1,150 feet] 35.257324,-81.007084	In use drinking water supply, transient use	1 877 DOT-4YOU
40	NCDOT	Weigh Station, 506 SB I-85, Charlotte	NCDOT 1550 Mail Svc Ctr Raleigh 27699	Permitted Well per Mecklenburg County Well Info System; [1,145 feet] 35.258682,-81.007036	In use drinking water supply, transient use	1 877 DOT-4YOU
41	05311104	12300 Moores Chapel Rd	American Truetzschler, Incorporated PO Box 669228, Charlotte 28266	Supply Well reported by On-Site Survey 35.258875,-81.00253	In use non transient, non-community water supply well used for toilets, process water. Facility uses bottled water for drinking water supply	704 399-4521
42	05311104	12300 Moores Chapel Rd	American Truetzschler, Incorporated PO Box 669228, Charlotte 28266	Supply Well reported by On-Site Survey		704 399-4521
43	05317259	10118 Harbor Dr	NC Water Service Inc. 2335 Sanders Rd Northbrook IL 60062	Harbor House Community Supply Well; [380 feet]	In use drinking water supply, community use	704 525-7990
44	05317250	Harbor Dr	NC Water Service Inc. 2335 Sanders Rd Northbrook IL 60062	Harbor House Community Supply Well; [1,345 feet]	In use drinking water supply, community use	704 525-7990
45	05317408	12608 Moores Chapel Rd	Francis Rienecker 12608 Moores Chapel Rd Charlotte 28214	In use drinking water supply well; Permitted Well per Mecklenburg County Well Info System; [2,425 feet]; 35.25173, -81.00636	Survey mailed, no response; well installed 3/19/2001, TD 405'; Well sampled 3/1/2007	Not Listed
46	05324120	12712 Moores Chapel Rd	Joseph Holman 12712 Moores Chapel Rd Charlotte 28214	Supply Well reported by On-Site Survey; use not confirmed; [1,760 feet]	Survey mailed, no response; Confirmed with 7/15/2011 field survey	704 393-7297
47	05313204	4101 Performance Rd	Machinery Corp American Dornier PO Box 668865 Charlotte 28266	Survey mailed, no reponse; onsite interview 7/15/2011; drinking water from CMUD; onsite well used for process water; [2,345 feet]	Drinking Water from CMUD Water Well utilized as process use	704 697-3310
48	05316109	12715 Moores Chapel Rd	Dorothy Auten 12701 Moores Chapel Charlotte 28214	In use supply Well Reported by 7/15/2011 telephone interview; [1,930 feet]	Drinking Use Depth: Unknown Installed: Unknown	704 399-6523
49	05324119	12900 Moores Chapel Rd	Tammy Potts McElreath PO Box 547 Belmont 28012	In use supply Well Reported by 7/19/2011 telephone interview; [2,575 feet]	Drinking Use Depth: Unknown Installed: Unknown	704 334-0322
43/44	05317268	10000 Harbor Dr	Ronald Banks 10000 Harbor Dr Charlotte 28214	Harbor House Public Water System PWS # NC0160211	Not Applicable	Not Applicable
43/44	05317267	10008 Harbor Dr	Pa Vang 10008 Harbor Dr Charlotte 28214			
43/44	05317276	10016 Harbor Dr	Michael Elmore 10016 Harbor Dr Charlotte 28214			
43/44	05317266	10020 Harbor Dr	Geraldine Miles 10020 Harbor Dr Charlotte 28214			
43/44	05317265	10026 Harbor Dr	David Beaman Jr. 10026 Harbor Dr Charlotte 28214			

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
43/44	05317285	10104 Harbor Dr	Kenneth Sain 10104 Harbor Dr Charlotte 28214	Harbor House Public Water System PWS # NC0160211	Not Applicable	Not Applicable
43/44	05317262	10108 Harbor Dr	Melissa Urban 10108 Harbor Dr Charlotte 28214			
43/44	05317256	10122 Harbor Dr	James Munden Jr 10122 Harbor Dr Charlotte 28214			
43/44	05317255	10130 Harbor Dr	Lindy Freeman 10130 Harbor Dr Charlotte 28214			
43/44	05317254	10200 Harbor Dr	Tanya Edwards 10200 Harbor Dr Charlotte 28214			
43/44	05317253	10206 Harbor Dr	Andrew Hash 10206 Harbor Dr Charlotte 28214			
43/44	05317252	10212 Harbor Dr	Ray Morgan 10212 Harbor Dr Charlotte 28214			
43/44	05317435	10213 Harbor Dr	Sherry Smith 10213 Harbor Dr Charlotte 28214			
43/44	05317432	10207 Harbor Dr	Catherine Thigpin 10207 Harbor Dr Charlotte 28214			
43/44	05317431	10201 Harbor Dr	Cynthia Hargett 10201 Harbor Dr Charlotte 28214			
43/44	05317429	10127 Harbor Dr	Richard Greer 10127 Harbor Dr Charlotte 28214			
43/44	05317428	10123 Harbor Dr	Conrad Zane Jr. 10123 Harbor Dr Charlotte 28214			
43/44	05317427	10119 Harbor Dr	Wendy Gulledge 10119 Harbor Dr Charlotte 28214			
43/44	05317430	10129 Harbor Dr	Arlene Wade 10129 Harbor Dr Charlotte 28214			
43/44	05317248	10418 Harbor Dr	Henry Helms 10418 Harbor Dr Charlotte 28214			
43/44	05317247	10426 Harbor Dr	Amber Sullivan 10426 Harbor Dr Charlotte 28214			
43/44	05317305	10500 Harbor Dr	Edgar Soto 10500 Harbor Dr Charlotte 28214			
43/44	05317304	10514 Harbor Dr	Timothy Clark 10514 Harbor Dr Charlotte 28214			
43/44	05317303	10600 Harbor Dr	Jack Boling 10600 Harbor Dr Charlotte 28214			
43/44	05317302	10610 Harbor Dr	Thomas Hollar 10610 Harbor Dr Charlotte 28214			
43/44	05317213	10419 Harbor Dr	Abby Dillworth 10419 Harbor Dr Charlotte 28214			
43/44	05317214	10425 Harbor Dr	Frederic Lehmann 10425 Harbor Dr Charlotte 28214			
43/44	05317215	10431 Harbor Dr	Walton Bustle 10431 Harbor Dr Charlotte 28214			
43/44	05317216	10501 Harbor Dr	Mary Cook 10501 Harbor Dr Charlotte 28214			
43/44	05317217	10511 Harbor Dr	Christine Flockton 10511 Harbor Dr Charlotte 28214			
43/44	05317218	10517 Harbor Dr	John Turner Jr. 10517 Harbor Dr Charlotte 28214			
43/44	05317219	10601 Harbor Dr	Scott Mathews 10601 Harbor Dr Charlotte 28214			

NOTES:
TD - Total Depth in feet; EFI - EFI Global, Inc.; [ ] - distance from source area; MCDEP - Mecklenburg County Department of Environmental Protection; CMUD - Charlotte Mecklenburg Utilities Department

Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
43/44	05317220	10607 Harbor Dr	Alan Hayes 10607 Harbor Dr Charlotte 28214	Harbor House Public Water System PWS # NC0160211	Not Applicable	Not Applicable
43/44	05317221	10613 Harbor Dr	Robert Waller 10613 Harbor Dr Charlotte 28214			
43/44	05317275	5301 Pine Cape Dr	Lisa Napolitano 5301 Pine Cape Dr Charlotte 28214			
43/44	05317278	5307 Pine Cape Dr	Catherine Napolitano 5307 Pine Cape Dr Charlotte 28214			
43/44	05317244	5313 Pine Cape Dr	Phyllis Hearn 5313 Pine Cape Dr Charlotte 28214			
43/44	05317288	5319 Pine Cape Dr	Jean Stanley 5319 Pine Cape Dr Charlotte 28214			
43/44	05317289	5401 Pine Cape Dr	Elizabeth Weed 5401 Pine Cape Dr Charlotte 28214			
43/44	05317273	5407 Pine Cape Dr	Nathaniel Cordy 5407 Pine Cape Dr Charlotte 28214			
43/44	05317306	5406 Pine Cape Dr	Jimmy Brown 5406 Pine Cape Dr Charlotte 28214			
43/44	05317307	5318 Pine Cape Dr	Guy Piercy Jr. 5318 Pine Cape Dr Charlotte 28214			
43/44	05317308	5312 Pine Cape Dr	Leroy Hardin 5312 Pine Cape Dr Charlotte 28214			
43/44	05317309	5306 Pine Cape Dr	Grace Hooper 5306 Pine Cape Dr Charlotte 28214			
43/44	05317242	5325 Cold Harbor Dr	Jason Clatworthy 5325 Cold Harbor Dr Charlotte 28214			
43/44	05317310	5401 Cold Harbor Dr	Leroy Hardin 5401 Cold Harbor Dr Charlotte 28214			
43/44	05317311	5407 Cold Harbor Dr	Kenneth Chavis Sr. 5407 Cold Harbor Dr Charlotte 28214			
43/44	05317312	5413 Cold Harbor Dr	Clay Durham 5413 Cold Harbor Dr Charlotte 28214			
43/44	05317313	5419 Cold Harbor Dr	Nancy Proctor 5419 Cold Harbor Dr Charlotte 28214			
43/44	05317301	5427 Cold Harbor Dr	Bruce Greene 5427 Cold Harbor Dr Charlotte 28214			
43/44	05317222	5501 Cold Harbor Dr	Toney Carter 5501 Cold Harbor Dr Charlotte 28214			
43/44	05317223	5533 Cold Harbor Dr	William Hawley 5533 Cold Harbor Dr Charlotte 28214			
43/44	05317272	5532 Cold Harbor Dr	Robert Aycock Sr. 5532 Cold Harbor Dr Charlotte 28214			
43/44	05317227	5504 Cold Harbor Dr	Tommy Berry Jr. 5504 Cold Harbor Dr Charlotte 28214			
43/44	05317228	5500 Cold Harbor Dr	William Stokes 5500 Cold Harbor Dr Charlotte 28214			
43/44	05317229	5438 Cold Harbor Dr	William Laye 5438 Cold Harbor Dr Charlotte 28214			
43/44	05317230	5430 Cold Harbor Dr	Linda Felton 5430 Cold Harbor Dr Charlotte 28214			
43/44	05317231	5424 Cold Harbor Dr	Judith Horne 5424 Cold Harbor Dr Charlotte 28214			
43/44	05317232	5418 Cold Harbor Dr	Yvonne Becker 5418 Cold Harbor Dr Charlotte 28214			

NOTES:
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Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
	05317233	5412 Cold Harbor Dr	Kenneth Huffstetler 5412 Cold Harbor Dr Charlotte 28214	Vacant Property; no Supply Wells reported from Field Survey 7/15 & 7/19/2011	Not Applicable	Not Applicable
	05317271	5318 Cold Harbor Dr	Robert Summerville 5318 Cold Harbor Dr Charlotte 28214			
	05317238	5312 Cold Harbor Dr	Tommy West 5312 Cold Harbor Dr Charlotte 28214			
	05317211	Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05317212	10411 Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05317442	Harbor Dr	Stephen Woodruff & David Jones 10335 Harbor Dr Charlotte 28277			
	05317443	Harbor Dr	Stephen Woodruff & David Jones 10335 Harbor Dr Charlotte 28277			
	05317243	5329 Cold Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05317246	5413 Pine Cape Dr	Harris Resorts LTD PO Box 687 Columbia SC 29202			
	05316101	Moores Chapel Rd	McClain Properties LLC 1401 Biltmore Dr Charlotte 28207			
	05317445	Moores Chapel Rd	Scott Ross 6 Margo Trail Rome GA 30161			
	05317404	12518 Moores Chapel Rd	Tam and Hanh Truong 12518 Moores Chapel Rd Charlotte 28214			
	05317405	12524 Moores Chapel Rd	Larry McCarty PO Box 2643 Huntsville AL 35804	Vacant Property; no Supply Wells reported from Field Survey 7/15 & 7/19/2011		
	05324114	Moores Chapel Rd	Justin Bowers 6509 Amberwood Dr Mt Holly 28120			
	05324123	Moores Chapel Rd	Michael Mustin 12726 Moores Chapel Charlotte 28214			
	05324122	Moores Chapel Rd	Larry McElreath PO Box 547 Belmont NC 28012			
	05324111	Moores Chapel Rd	Larry McElreath PO Box 547 Belmont NC 28012			
	05317434	Harbor Dr	Sherry Smith 10213 Harbor Dr Charlotte 28214			
	05317290	Harbor Dr	Melissa Urban 10108 Harbor Dr Charlotte 28214			
	05317260	10114 Harbor Dr	James Munden Jr 10122 Harbor Dr Charlotte 28214			
	05317251	Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
	05311105	Moores Chapel Rd	Plantation Pipe Line Company PO Box 18616 Atlanta GA 31126-0616			
	05312201	Heavy Equipment School Rd	Leander Jones 3737 Pullman Dr Sacramento CA 95827			
	05312213	Moores Chapel Rd	Charles Auten 12108 Moores Chapel Charlotte 28214			
	05312223	4749 Charlie Hipp Rd	Joseph Henson 4455 Rt 34 Winfield WV 25213			
	05312224	Moores Chapel Rd	Charles Joye 11942 Moores Chapel Charlotte 28214			
	05313206	Performance Rd	Charles Joye 11942 Moores Chapel Charlotte 28214			

NOTES:
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Table 5 - Water Supply Well Inventory
American Trutzschler Facility
Charlotte, North Carolina

Well #	PID	Property Address	Owner / Mailing Address	Source and distance to Potable Water / Comments	Well Operational Status / Use and Construction Data	Phone #
	05313207	Moores Chapel Rd	Charles Auten 307 Coulwood Dr Charlotte 28214			
	05311101	Heavy Equipment School Rd	Mecklenburg County 600 E 4th St 11th Floor Charlotte 28202			
	05317274	5300 Cold Harbor Dr	Doris Henderson 435 Gum Branch Rd Charlotte 28214			
	05317239	5308 Cold Harbor Dr	Doris Henderson 435 Gum Branch Rd Charlotte 28214			
	05317237	5324 Cold Harbor Dr	Mary West 5312 Cold Harbor Dr Charlotte 28214			
	05317236	Cold Harbor Dr	Mary West 5312 Cold Harbor Dr Charlotte 28214		Not Applicable	
	05317235	5400 Cold Harbor Dr	Edna Dellinger 1216 Farm Creek Rd Waxhaw 28173			
	05317234	5406 Cold Harbor Dr	Billie Sloan 1003 W Clayton Ave Artesia NM 88210			
	05317226	5510 Cold Harbor Dr	Barbara Hough 8209 White Ash Ct Charlotte 28227			Not Applicable
	05317225	5514 Cold Harbor Dr	Barbara Hough 8209 White Ash Ct Charlotte 28227			
	05317224	5536 Cold Harbor Dr	Jerry Barefoot PO Box 19006 Charlotte 28219			
50	05324112 & 13	12808 & 18 Moores Chapel Rd	Douglas Hawkins 12818 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by Mailed Survey; [3,560 feet]	Drinking Use as reported by Questionnaire Depth: 120'; Casing: 100'; Installed: 1996	
100	05317409	12648 Moores Chapel Rd	David Jackson 12648 Moores Chapel Rd Charlotte 28214	In use drinking water supply well reported by NCDENR; [3,000 feet] 35.25147, -81.006634	Drinking Use as Reported by NCDENR Depth: Unknown Installed: Unknown	
	05312218	4779 Charlie Hipp Rd	Plantation Pipe Line Company PO Box 18616 Atlanta GA 31126-0616	Survey mailed, no response	Not Applicable	
	05313202	4001 Performance Rd	Mallard Creek Investors PO Box 6066 Charlotte 28207	Survey mailed, no response, telephone interview 7/19/2011 - Drinking Water from CMUD		
51	5324110	12920 Moores Chapel Rd	Mark Biggs 12920 Moores Chapel Road Charlotte 29214	In use drinking water supply well reported by Mailed Survey; [3,600 feet]	Drinking Use as reported by Questionnaire Depth: Unknown; Casing: Unknown; Installed: Unknown	
	5324109	12930 Moores Chapel Rd	Clemmie Marrow 702 Beatty Rd Mt. Holly NC	Telephone Interview 7/15/2011; No Water on Site	Not Applicable	

NOTES:
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Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Raw Influent	13-Jun-11	NA	NA	NA	NA	**28.5**	NA	< 1	< 1	1.3	NA
	27-Sep-11	< 25	< 1	< 1	< 1	**25.9**	NA	< 1	< 1	1.2	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	**16.6**	< 150	< 1	< 1	1.1	< 1
	14-Mar-12	< 2.2	< 0.25	< 0.14	< 0.11	**29.2**	< 78.4	< 0.46	< 0.47	1.1	< 0.2
	28-Jun-12	< 2.2	< 0.25	< 0.14	< 0.11	**21.7**	**17**	< 0.46	< 0.47	0.96 J	< 0.2
	19-Sep-12	< 4.6	< 0.38	< 0.32	< 0.28	**13**	**13**	< 0.37	< 0.4	0.61	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	**20**	**17**	< 0.37	< 0.4	0.81 J	< 1.2
	21-Mar-13	< 4.6	< 0.38	< 0.32	< 0.28	**22**	**24**	< 0.37	< 0.4	0.65 J	< 1.2
	21-Jun-13	< 10	< 0.38	< 0.32	< 0.28	**17**	**15**	< 0.38	< 0.4	0.55 J	< 1.2
	4-Feb-14	1.6 J	< 0.16	< 0.086	< 0.13	**24**	**13**	< 0.2	< 0.15	0.55	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**21**	**12**	< 0.37	< 0.4	0.64 J	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**23**	**20**	< 0.37	< 0.4	0.68 J	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**24**	**19**	< 0.37	< 0.4	0.63 J	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	**8.3**	**17**	< 0.37	< 0.4	0.69 J	< 1.2
	22-May-14	2.4 J	< 0.16	< 0.086	< 0.15	**24**	**15**	< 0.2	< 0.15	0.69	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	**16**	**17**	< 0.37	< 0.15	0.49 J	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	**26**	**16**	< 0.37	< 0.4	0.74 J	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	**17**	**20**	< 0.37	< 0.4	0.52 J	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**14**	**26**	< 0.37	< 0.4	0.57 J	< 1.2
	15-Jul-14	< 10	< 0.38	0.51 J	< 0.28	**18**	**15**	< 0.37	< 0.4	0.56 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**14**	**15**	< 0.37	< 0.4	0.51 J	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**14**	**16**	< 0.37	< 0.4	0.52 J	< 1.2
	12-Aug-14	13 J	< 0.38	< 0.32	< 0.28	**22**	**14**	< 0.37	< 0.4	0.64 J	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	**17**	**13**	< 0.37	< 0.4	0.46 J	< 1.2
	29-Oct-14	2.7 J	< 0.16	< 0.086	< 0.15	**7.6**	**9.1**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	**11**	**9.3**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.2 J	< 0.16	< 0.086	< 0.15	**8.8**	**10**	< 0.2	< 0.15	< 0.094	< 0.13
Post Ozone	22-May-14	4.1 J	< 0.16	< 0.086	< 0.15	< 0.11	**14**	0.13	< 0.15	0.83	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.57 J	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**15**	< 0.37	< 0.4	0.77 J	< 1.2
	10-Jun-14	22 J	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.46 J	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**14**	< 0.37	< 0.4	0.52 J	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**14**	< 0.37	< 0.4	0.59 J	< 1.2
	29-Oct-14	3 J	< 0.16	< 0.086	< 0.15	< 0.19	**7.6**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**9.3**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.9 J	< 0.16	< 0.086	< 0.15	< 0.19	**9.1**	< 0.2	< 0.15	< 0.094	< 0.13

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Post Chlorine	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**13**	**20**	< 0.37	< 0.4	0.5 J	< 1.2
	15-Jul-14	< 10	< 0.38	0.53 J	< 0.28	**20**	**15**	< 0.37	< 0.4	0.62 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**12**	**14**	< 0.37	< 0.4	0.51 J	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**18**	**17**	< 0.37	< 0.4	0.54 J	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**17**	< 0.37	0.51 J	0.62 J	< 1.2
	22-Oct-14	< 10	< 0.38	1.5 J	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.48 J	< 1.2
	29-Oct-14	2.4 J	< 0.16	0.41 J	< 0.15	< 0.19	**12**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	1.1 J	< 0.28	< 0.4	**7.8**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	6.2 J	< 0.16	1.4	< 0.15	< 0.19	**10**	< 0.2	< 0.15	< 0.094	< 0.13
Post UV	4-Feb-14	1.5 J	< 0.16	< 0.086	< 0.15	**19**	**11**	< 0.2	< 0.15	0.55	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**8.2**	**9.9**	< 0.37	< 0.4	0.66 J	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**16**	**21**	< 0.37	< 0.4	0.58 J	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	**18**	**18**	< 0.37	< 0.4	0.56 J	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	**23**	**16**	< 0.37	< 0.4	0.63 J	< 1.2
	22-May-14	3.7 J	< 0.16	< 0.086	< 0.15	< 0.11	**16**	< 0.2	< 0.15	0.72	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	0.57 J	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	0.45 J	**15**	< 0.37	< 0.4	0.84 J	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	0.45 J	**18**	< 0.37	< 0.4	0.44 J	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**13**	**19**	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.52 J	< 0.28	**14**	**15**	< 0.37	< 0.4	0.53 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**13**	**15**	< 0.37	< 0.4	0.51 J	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	**18**	**17**	< 0.37	< 0.4	0.61 J	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**20**	< 0.37	0.49 J	0.66 J	< 1.2
Primary GAC	13-Jun-11	NA	NA	NA	NA	1.2	NA	< 1	< 1	< 1	NA
	27-Sep-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	< 5	< 150	< 1	< 1	< 1	< 1
	14-Mar-12	4.4 J	< 0.25	< 0.14	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	28-Jun-12	< 2.2	< 0.25	< 0.14	< 0.11	0.96 J	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	19-Sep-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**13**	< 0.37	< 0.4	< 0.32	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Mar-13	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**22**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Jun-13	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.61	< 0.37	< 0.4	< 0.32	< 1.2
	4-Feb-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.4 J	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.62 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.1 J	< 0.37	< 0.4	< 0.32	< 1.2

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Primary GAC	22-May-14	3 J	< 0.16	< 0.086	< 0.15	< 0.19	2.8 J	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**4.7**	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**5.2**	< 0.37	< 0.4	< 0.32	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.4 J	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.52 J	< 0.28	**19**	**15**	< 0.37	< 0.4	0.62 J	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.5 J	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	2.1 J	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**3.7**	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**7.2**	< 0.37	< 0.4	< 0.32	< 1.2
	29-Oct-14	1.6 J	< 0.16	< 0.086	< 0.15	< 0.19	**9.6**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	0.52 J	< 0.28	< 0.4	**8.1**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	4 J	< 0.16	1.3	< 0.15	< 0.19	**10**	< 0.20	< 0.15	< 0.094	< 0.13
Secondary GAC	13-Jun-11	NA	NA	NA	NA	< 1	NA	< 1	< 1	< 1	NA
	27-Sep-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	< 5	< 150	< 1	< 1	< 1	< 1
	14-Mar-12	< 2.2	< 0.25	< 0.14	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	28-Jun-12	< 2.2	< 0.25	< 0.14	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	19-Sep-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**15**	< 0.37	< 0.4	< 0.32	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**16**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Mar-13	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**20**	< 0.37	< 0.4	< 0.32	< 1.2
	21-Jun-13	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	4-Feb-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-May-14	2.3 J	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.66 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.49 J	< 0.28	< 0.4	1 J	< 0.37	< 0.4	< 0.32	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.63 J	< 0.37	< 0.4	< 0.32	< 1.2
	29-Oct-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	**9.8**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**11**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.6 J	< 0.16	< 0.086	< 0.15	< 0.19	**11**	< 0.2	< 0.15	< 0.094	< 0.13

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Tertiary GAC	4-Feb-14	1.2 J	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-May-14	2.2 J	< 0.16	< 0.086	< 0.15	< 0.19	< 0.6	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.63 J	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	10-Jun-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.64 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.5 J	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	29-Oct-14	< 1	< 0.16	< 0.086	< 0.15	< 0.19	**5.8**	< 0.2	< 0.15	< 0.094	< 0.13
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**11**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.4 J	< 0.16	< 0.086	< 0.15	< 0.19	**11**	< 0.2	< 0.15	< 0.094	< 0.13
Effluent (Post Chlorination)	13-Jun-11	NA	NA	NA	NA	< 1	NA	< 1	< 1	< 1	NA
	27-Sep-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	11-Oct-11	< 25	< 1	< 1	< 1	< 1	NA	< 1	< 1	< 1	< 1
	5-Dec-11	< 100	< 1	< 5	< 1	< 5	< 150	< 1	< 1	< 1	< 1
	14-Mar-12	6.5 J	< 0.25	0.37 J	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	28-Jun-12	< 2.2	< 0.25	0.66 J	< 0.11	< 0.56	< 78.4	< 0.46	< 0.47	< 0.48	< 0.2
	19-Sep-12	< 4.6	< 0.38	0.38 J	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	17-Dec-12	< 4.6	< 0.38	< 0.32	< 0.28	< 0.4	**4.9**	< 0.37	< 0.4	< 0.32	< 1.2
	4-Jan-13	NA	NA	NA	NA	NA	**6.6**	NA	NA	NA	NA
	15-Jan-13 Eff A	NA	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA
	15-Jan-13 Eff B	NA	NA	NA	NA	NA	1.9	NA	NA	NA	NA
	6-Feb-13	NA	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA
	21-Mar-13	NA	< 0.5	NA	NA	< 0.5	< 0.6	< 0.5	< 0.5	< 0.5	NA
	30-Apr-13	NA	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA
	30-May-13	NA	NA	NA	NA	NA	**5.6**	NA	NA	NA	NA
	21-Jun-13	NA	< 0.5	NA	NA	< 0.5	**7.4**	< 0.5	< 0.5	< 0.5	NA
	27-Jun-13	NA	NA	NA	NA	NA	0.62	NA	NA	NA	NA
	4-Feb-14	2.3 J	< 0.16	< 0.086	< 0.15	< 0.19	**8.6**	< 0.2	< 0.15	< 0.094	< 0.13
	11-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	18-Feb-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.82 J	< 0.37	< 0.4	< 0.32	< 1.2
	26-Feb-14	< 10	< 0.38	0.42 J	< 0.28	< 0.4	0.91 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Apr-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	1.2 J	< 0.37	< 0.4	< 0.32	< 1.2
	22-May-14	3.3 J	< 0.16	0.72	< 0.15	< 0.19	1.6 J	< 0.2	< 0.15	< 0.094	< 0.13
	29-May-14	< 10	< 0.38	0.68 J	< 0.28	< 0.4	1.3 J	< 0.37	< 0.4	< 0.32	< 1.2
	5-Jun-14	< 10	< 0.38	0.43 J	< 0.28	< 0.4	**4.3**	< 0.37	< 0.4	< 0.32	< 1.2

Table 6 - Harbor House No. 2 (WSW-43) Pilot Test Analytical Data
American Truetzschler Facility
Charlotte, North Carolina

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		Acetone	Carbon Tetrachloride	Chloroform	Chloromethane	1,1-DCE	1,4-Dioxane	PCE	TCE	1,1,1-TCA	Trichloro-fluoromethane
NCAC 2L Standards		**6,000**	**0.3**	**70**	**3**	**7**	**3**	**0.7**	**3**	**200**	**2,000**
Effluent (Post Chlorination)	10-Jun-14	< 10	< 0.38	0.84 J	0.51 J	< 0.4	1.3 J	< 0.37	< 0.4	< 0.32	< 1.2
	8-Jul-14	< 10	< 0.38	0.38 J	< 0.28	< 0.4	0.95	< 0.37	< 0.4	< 0.32	< 1.2
	15-Jul-14	< 10	< 0.38	0.47 J	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	23-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	0.66 J	< 0.37	< 0.4	< 0.32	< 1.2
	30-Jul-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	12-Aug-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	22-Oct-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	< 0.6	< 0.37	< 0.4	< 0.32	< 1.2
	5-Nov-14	< 10	< 0.38	< 0.32	< 0.28	< 0.4	**11**	< 0.37	< 0.4	< 0.32	< 1.2
	12-Nov-14	1.4 J	< 0.16	< 0.086	< 0.15	< 0.19	**11**	< 0.20	< 0.15	< 0.094	< 0.13

NOTES:

Data provided in micrograms per liter or µg/l
Highlighted data exceeded NCAC 2L Standards
1,1-DCE = 1,1-Dichloroethene
Highlighted data exceeded NCAC 2L Standards
J - Estimated concentration above the adjusted method detection limit and below the adjusted reported limit
NA - Not Analyzed
NCAC = North Carolina Administrative Code

1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
* - Denotes effluent analyzed by EPA Method 524 in lieu of COC list by EPA Method 8260

Additional results from sampling events:

9/11 Event: Effluent also indicated 1.1 ppb Bromodichloromethane and 1.5 ppb Dibromochloromethane
3/12 Event: Effluent also indicated 0.59 J ppb Dibromochloromethane
6/12 Event: Effluent also indicated 1.5 ppb Dibromochloromethane and 0.75 J ppb Bromoform

Table 7 - Private Water Supply Well Analytical Data
American Truetzschler, Inc.
Charlotte, North Carolina
Excel Project No. 201008

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		1,1-DCE	PCE	TCE	Carbon Tetrachloride	TCFM	Acetone	Chloromethane	1,4-Dioxane	1,1,1-TCA	Chloroform
NCAC 2L Standards		**7**	**0.7**	**3**	**0.3**	**2,000**	**6,000**	**3**	**3**	**200**	**70**
41 (ATSW)	21-Jun-11	< 1	< 1	< 1	NA	NA	NA	NA	NA	< 1	NA
	27-Sep-11	< 1	< 1	< 1	NA	NA	NA	NA	NA	< 1	NA
	20-Dec-11	< 1	< 1	< 1	NA	NA	NA	NA	NA	< 1	NA
	14-Mar-12	< 0.56	< 0.46	< 0.47	NA	NA	NA	NA	NA	< 0.48	NA
	17-Jul-12	< 0.56	< 0.46	< 0.47	NA	NA	NA	NA	NA	< 0.48	NA
	19-Sep-12	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	**20**	< 0.32	< 0.32
	4-Jan-13	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	**23**	< 0.32	< 0.32
	22-Mar-13	< 0.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	**30**	< 0.32	< 0.32
	20-Jun-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	3	0.42	**53**	< 0.094	2.7
	5-Jan-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	6.6 J	< 0.15	**3**	< 0.094	< 0.086
	10-Dec-15	**32.8**	**1.71**	0.666	< 0.16	< 0.13	< 1.05	< 0.15	**22.8**	0.544	0.459 J
	8-Mar-16	< 0.19	0.206 J	< 0.15	< 0.16	< 0.13	5.67 J	< 0.15	2.66 J	< 0.094	< 0.086
HH1 - Influent (44)	30-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	7.5 J	< 0.11	< 1.2	< 0.48	< 0.14
3	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	4.6 J	< 0.11	< 1.2	< 0.48	< 0.14
4	25-Jul-12	< 0.56	< 0.46	< 0.47	**0.40 J**	< 0.2	5.1 J	< 0.11	< 1.2	< 0.48	< 0.14
4 Re-Analysis		< 0.56	< 0.46	< 0.47	**0.42 J**	< 0.2	< 2.2	< 0.11	--	< 0.48	< 0.14
5	7-Aug-12	< 0.56	**0.84 J**	< 0.47	**0.31 J**	< 0.2	5.9 J	< 0.11	< 1.2	< 0.48	< 0.14
5 Re-Analysis		< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.9 J	< 0.11	--	< 0.48	< 0.14
15 (WSW-1)*	26-Mar-12	< 1	< 1	< 1	< 1	< 1	< 20	< 1	--	< 0.48	< 0.14
17	7-Aug-12	< 0.56	0.53 J	< 0.47	< 0.25	< 0.2	12.6 J	< 0.11	< 1.2	< 0.48	< 0.14
18	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	2.4	4.8 J	< 0.11	< 1.2	< 0.48	< 0.14
19	25-Jul-12	< 0.56	**0.72 J**	< 0.47	< 0.25	4.7	5.3 J	0.21 J	< 1.2	< 0.48	< 0.14
19 Re-Analysis		< 0.56	0.47 J	< 0.47	< 0.25	2.0	9.1 J	< 0.11	--	< 0.48	< 0.14
21	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	1.1	4.8 J	< 0.11	< 1.2	< 0.48	< 0.14
	20-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	1.2	2.6 J	< 0.15	< 0.6	< 0.94	< 0.086
24	20-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	2.7 J	0.6	< 0.6	< 0.94	< 0.086
25	17-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	1.2 J	< 0.15	< 0.6	< 0.94	< 0.086
33	1-May-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
34	28-Oct-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
35	9-Aug-12	3.1	< 0.46	< 0.47	< 0.25	< 0.2	8.7 J	< 0.11	**11.9**	< 0.48	< 0.14
	18-Oct-12	5.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	17-Dec-12	4.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	21-Jun-13	3.7	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.81	< 0.094	< 0.086
	20-Dec-13	3.7	< 0.2	< 0.15	< 0.16	< 0.13	3.1 J	< 0.15	< 0.6	< 0.94	< 0.086
	18-Jun-14	4.1	< 0.2	< 0.15	< 0.16	< 0.13	1.5 J	< 0.15	0.95 J	< 0.094	< 0.086
	26-Dec-14	3.8	< 0.2	< 0.15	< 0.16	< 0.13	1.0 J	< 0.15	< 0.6	< 0.094	< 0.086
	24-Jun-15	3.79	< 0.37	< 0.4	< 0.38	< 1.2	< 10	< 0.28	< 0.6	< 0.319	< 0.32
	22-Dec-15	5.59	0.233 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.83 J	< 0.094	< 0.086

NOTES:

* - Sample from supply well 15 (WSW-1) was collected by Excel as part of a separate sampling event for property transfer assessment.
Data provided in ug/l
ATSW = American Truetzschler Supply Well
Highlighted data exceeded NCAC 2L Standards
J - Estimated concentration above the adjusted method detection limit and below the adjusted reported limit.

1,1-DCE = 1,1-Dichloroethene
NCAC = North Carolina Administrative Code
PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
TCFM = Trichlorofluoromethane

Table 7 - Private Water Supply Well Analytical Data (Continued)

American Truetzschler, Inc.
Charlotte, North Carolina
Excel Project No. 201008

Well Identification	Date Sampled	CONSTITUENTS OF CONCERN									
		1,1-DCE	PCE	TCE	Carbon Tetrachloride	TCFM	Acetone	Chloromethane	1,4-Dioxane	1,1,1-TCA	Chloroform
NCAC 2L Standards		**7**	**0.7**	**3**	**0.3**	**2,000**	**6,000**	**3**	**3**	**200**	**70**
36	25-Jul-12	**7.6**	< 0.46	< 0.47	< 0.25	< 0.2	4.4 J	< 0.11	< 1.2	< 0.48	< 0.14
	5-Nov-12	5.9	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	17-Dec-12	6.4	< 0.37	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	< 0.6	< 0.32	< 0.32
	21-Jun-13	4.8	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
	20-Dec-13	3.8	< 0.2	< 0.15	< 0.16	< 0.13	1.5 J	< 0.15	< 0.6	< 0.94	< 0.086
	18-Jun-14	6.1	< 0.2	< 0.15	< 0.16	< 0.13	2.1 J	< 0.15	< 0.6	< 0.94	< 0.086
	26-Dec-14	4.9	< 0.2	< 0.15	< 0.16	< 0.13	1.1 J	< 0.15	< 0.6	< 0.094	< 0.086
	24-Jun-15	5.82	< 0.37	< 0.4	< 0.38	< 1.2	< 10	< 0.28	< 0.6	< 0.319	< 0.32
	10-Dec-15	5.7	0.248 J	< 0.15	< 0.16	< 0.13	< 1.05	< 0.15	1.07 J	< 0.094	< 0.086
37-INF	17-Oct-12	**15**	0.44 J	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	1 J	< 0.32	< 0.32
	5-Nov-12	**14**	0.43 J	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	0.96 J	< 0.32	< 0.32
	17-Dec-12	**14**	0.38 J	< 0.4	< 0.38	< 1.2	< 4.6	< 0.28	0.93 J	< 0.32	< 0.32
	21-Jun-13	**13**	0.34 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.2	0.32 J	< 0.086
	3-Dec-13	**14**	< 0.2	< 0.15	< 0.16	< 0.13	2.1 J	< 0.15	1.2 J	< 0.094	< 0.086
	13-Mar-14	**10**	0.37 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.92 J	< 0.094	< 0.086
	22-Oct-14	**10**	0.64	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.84 J	< 0.094	< 0.086
	26-Dec-14	**10**	0.37 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.086
	15-Jun-15	**8.68**	0.405 J	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.02 J	< 0.094	< 0.086
	22-Dec-15	**16**	0.64	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.26 J	0.197 J	< 0.086
37-Eff	3-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	NA	< 0.094	< 0.14
	13-Mar-14	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	< 0.6	< 0.094	< 0.14
	22-Oct-14	< 0.19	< 0.2	<0.15	< 0.16	< 0.13	1.3 J	< 0.15	< 0.6	< 0.094	< 0.086
	26-Dec-14	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	0.63 J	< 0.094	< 0.086
	15-Jun-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.5 J	< 0.094	< 0.086
	22-Dec-15	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	< 1	< 0.15	1.73 J	< 0.094	< 0.086
39	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.9 J	< 0.11	< 1.2	< 0.48	< 0.14
40	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	7.7 J	0.13 J	< 1.2	< 0.48	< 0.14
45	25-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.6 J	< 0.11	< 1.2	< 0.48	< 0.14
46	26-Jul-12	< 0.56	< 0.46	< 0.47	< 0.25	< 0.2	3.6 J	< 0.12	< 1.3	< 0.48	< 0.14
49	20-Dec-13	< 0.19	< 0.2	< 0.15	< 0.16	< 0.13	1.3 J	< 0.15	< 0.6	< 0.94	< 0.086

NOTES:

* - Sample from supply well 15 (WSW-1) was collected by Excel as part of a separate sampling event for property transfer assessment.
Data provided in ug/l
ATSW = American Truetzschler Supply Well
Highlighted data exceeded NCAC 2L Standards
J - Estimated concentration above the adjusted method detection limit and below the adjusted reported limit.

1,1-DCE = 1,1-Dichloroethene
NA = Not Analyzed
NCAC = North Carolina Administrative Code
PCE = Tetrachloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
TCFM = Trichlorofluoromethane

Table 8 - Groundwater Monitoring Plan
American Truetzschler Facility
Charlotte, North Carolina

	Monitoring Location	Screen Interval (feet)	Sampling Frequency	Sampling Parameters
MONITORING WELLS	MW-1S	30.0 – 50.0	A*	VOC
	MW-1D	NDA	A	VOC
	MW-1V	NDA	A	VOC
	MW-2S	20.0 – 40.0	A*	VOC
	MW-2D	142.0 – 147.0	A	VOC
	MW-2V	NDA	I	VOC
	MW-3S	30.0 – 50.0	I	VOC
	MW-3D	147.0 – 162.0	I	VOC
	MW-3V	NDA	A	VOC
	MW-4S	30.0 – 50.0	A	VOC
	MW-4D	106.0 – 112.0	A	VOC
	MW-5	65.0 – 85.0	I	VOC
	MW-5S	20.0 – 40.0	A*	VOC
	MW-5D	110.0 – 115.0	A	VOC
	MW-6S	20.0 – 40.0	A	VOC
	MW-6D	126.0 – 131.0	A	VOC
	MW-7	40.0 – 50.0	I	VOC
	MW-7S	21.0 – 41.0	A*	VOC
	MW-8	135.0 – 155.0	A	VOC
	MW-9	15.0 – 30.0	A	VOC
	MW-10	160.0 – 185.0	A	VOC
	MW-18	78.5 – 83.5	I	VOC
	MW-19	25.5 – 35.5	I	VOC
	MW-20	126.0 – 136.0	I	VOC
	MW-21	NDA	I	VOC
	MW-22	95.0 - 100.0	A	VOC
	MW-23	125.0 - 135.0	A	VOC
	MW-24	130.0 - 140.0	A	VOC
	PW-1	NDA	I	VOC
	RW-1	NDA	M**	VOC
WATER SUPPLY WELLS	WSW-21	NDA	S	VOC
	WSW-33	NDA	S	VOC
	WSW-34	NDA	S	VOC
	WSW-35	NDA	S	VOC
	WSW-36	NDA	S	VOC
	WSW-37-INF	NDA	S	VOC
	WSW-37-EFF	NDA	S	VOC
	WSW-41-INF	NDA	S	VOC
	WSW-41-ATSW	NDA	S	VOC

Frequency:	A	Annualy
	S	Semi-annually
	M	Monthly
	I	Inactive, not sampled
	*	Denotes a well that has historically been dry. If water is observed, the well will be sampled.
	**	RW-1 influent and effluent is sampled on a monthy basis as part of ongoing remediation system operation and monitoring
Parameters:	VOC	Volatile organics by EPA method 8260B and 1,4-dioxane by EPA method 8260B SIM.
Notes:	-	Water levels measured in all wells
	-	GW Monitoring Plan to be updated annually as needed
	-	Field parameters collected for all wells that are sampled and include pH, Conductivity, ORP, DO, temperature, and turbidity

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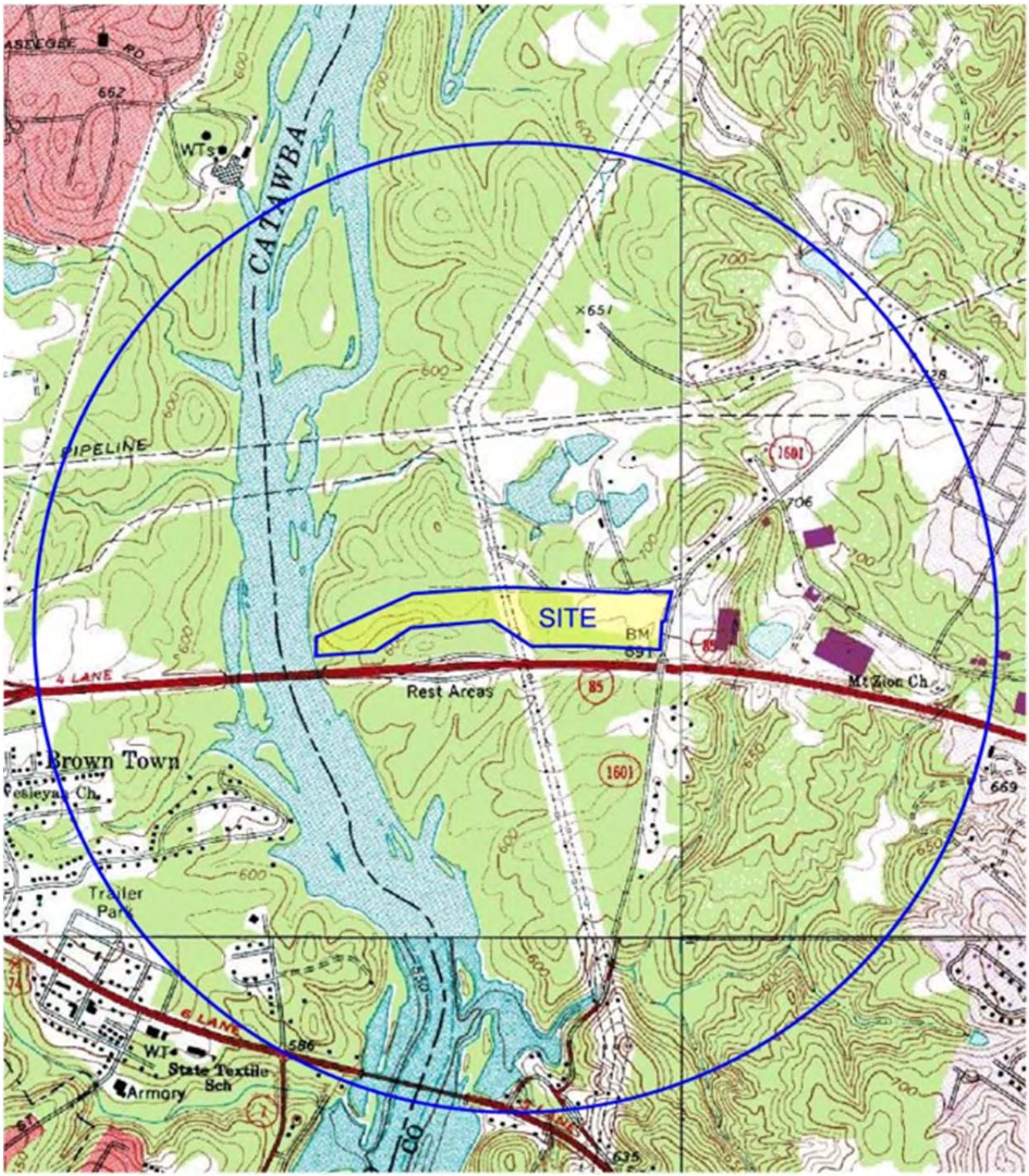
Figure 9 - 1,1-DCE in Groundwater Map

Figure 10 - 1,4-Dioxane in Groundwater Map



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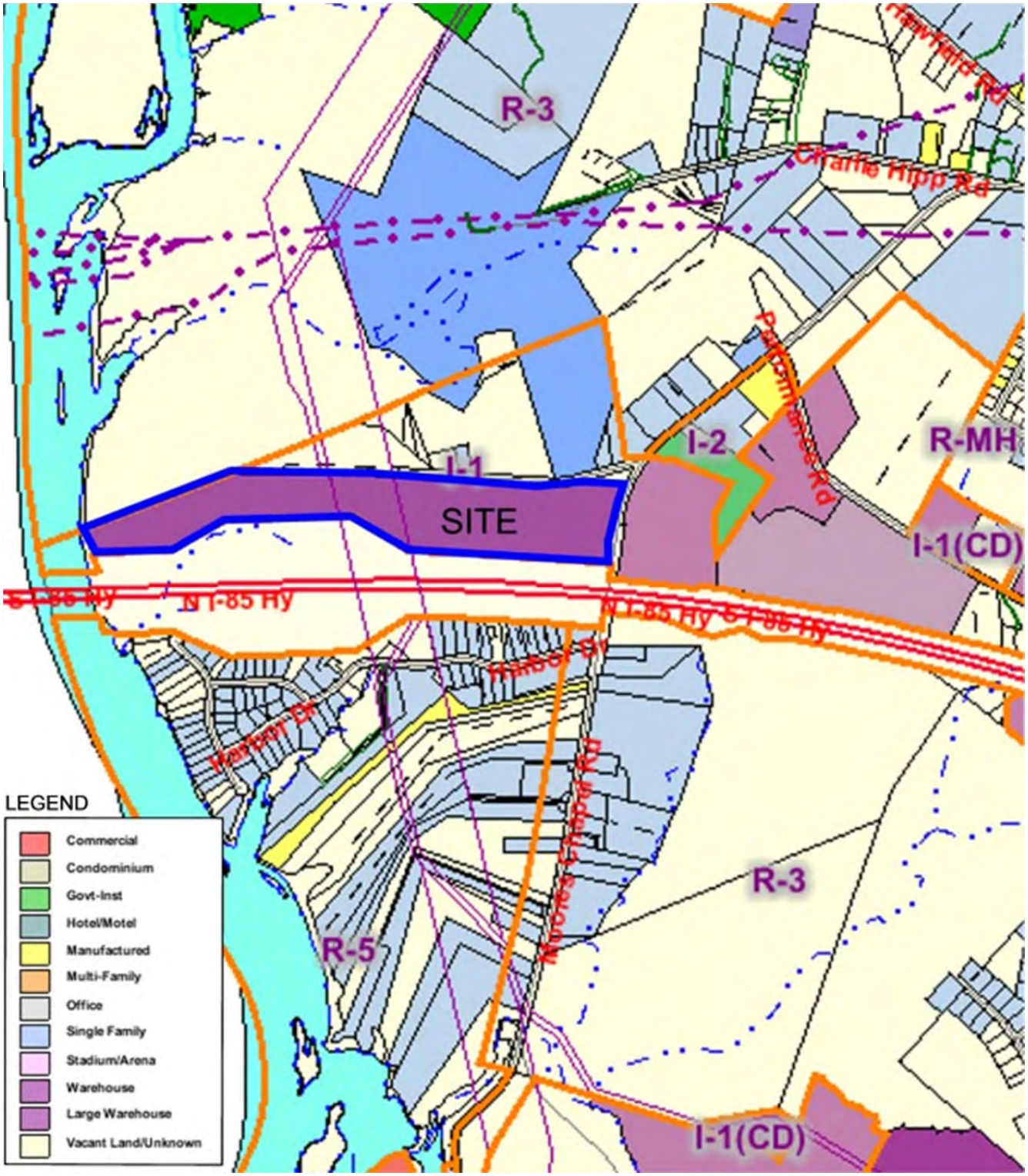
625 HUNTSMAN COURT
GASTONIA, NC 28054
(704) 853-0800

Figure 1 - Site Topographic Map & One Mile Radius

Excel Project Number 201008

Source: www.terraserver-usa.com

⇑ N



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GASTONIA, NC 28054
(704) 853-0800

Figure 2 - Site Location & Nearby Land Use Map

Excel Project Number 201008

Source: www.charmeck.org

⇑ N

NOTES

Map based on physical survey completed by James Mauney & Assoc. dated 12/29/09.

Location of roadway for I-85 approximate

DALES GROUP LLC PID # 05312204
DALES GROUP LLC PID # 05312205
DALES GROUP LLC PID # 05312206
PLANTATION PIPE LINE PID # 05312218
DORTHY HOFFMAN PID # 05312208
PLANTATION PIPE LINE PID # 05311105
KNOX GROUP 85 LLC PID # 05313211

HEAVY EQUIPMENT SCHOOL ROAD
MOORES CHAPEL ROAD
INTERSTATE I-85 (SOUTH BOUND)

MANUFACTURING & WAREHOUSE
OFFICES
ASPHALT
CONCRETE
GRASS
WOODED AREA
TANK
TANKS
GUARD RAIL
DITCH
DITCH TO STORMWATER DETENTION POND
15" RCP
24" RCP
30" RCP
12" RCP
18" RCP
CB
MW-4D
MW-4S
MW-7
MW-7S
MW-1S
MW-1V
PW-1
MW-1D
UVB WELL
MW-2D
REMEDIATION COMPOUND
MW-2S
MW-6S
MW-6D
RW-1
MW-5D
MW-5S
MW-5 (former)
WATER TANK
APPROXIMATELY 785' TO NEW-43 (THREER HOUSE 2)
B
B'
MW-8
MW-3V
MW-3D (former)
MW-3S (former)
MW-9
MW-2V
MW-10

LEGEND

- Property Line
- Right-of-Way / Easement
- Overhead Electric
- Sanitary Sewer
- Fence Line
- Location of Cross-Section
- Power Pole
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Recovery Well Location

100 50 0 100 200

GRAPHIC BAR SCALE
1" = 100'

Excel
Civil & Environmental Associates, PLLC

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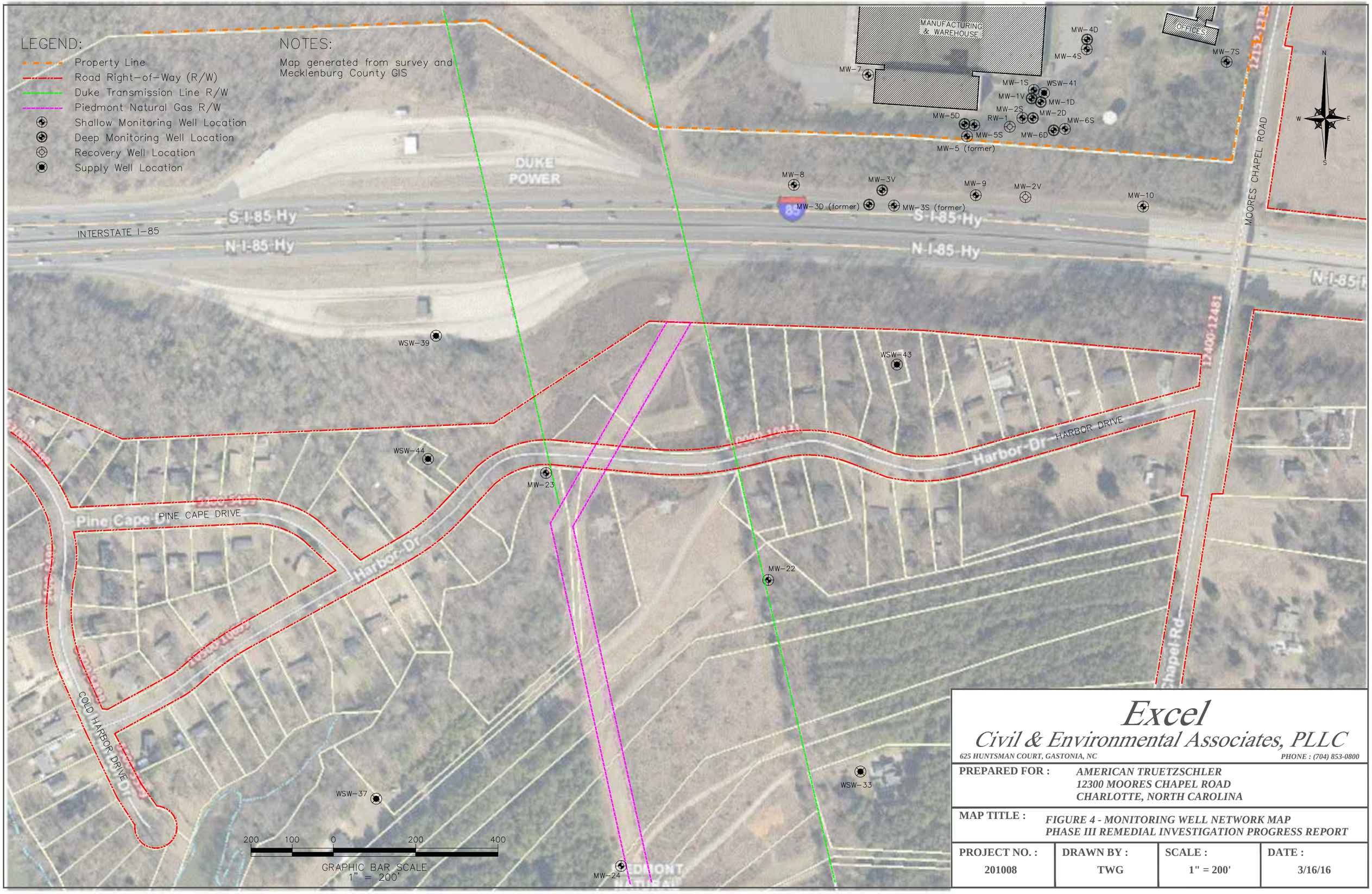
PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 3 - SITE PLAN*
PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 100'	3/16/16



Excel

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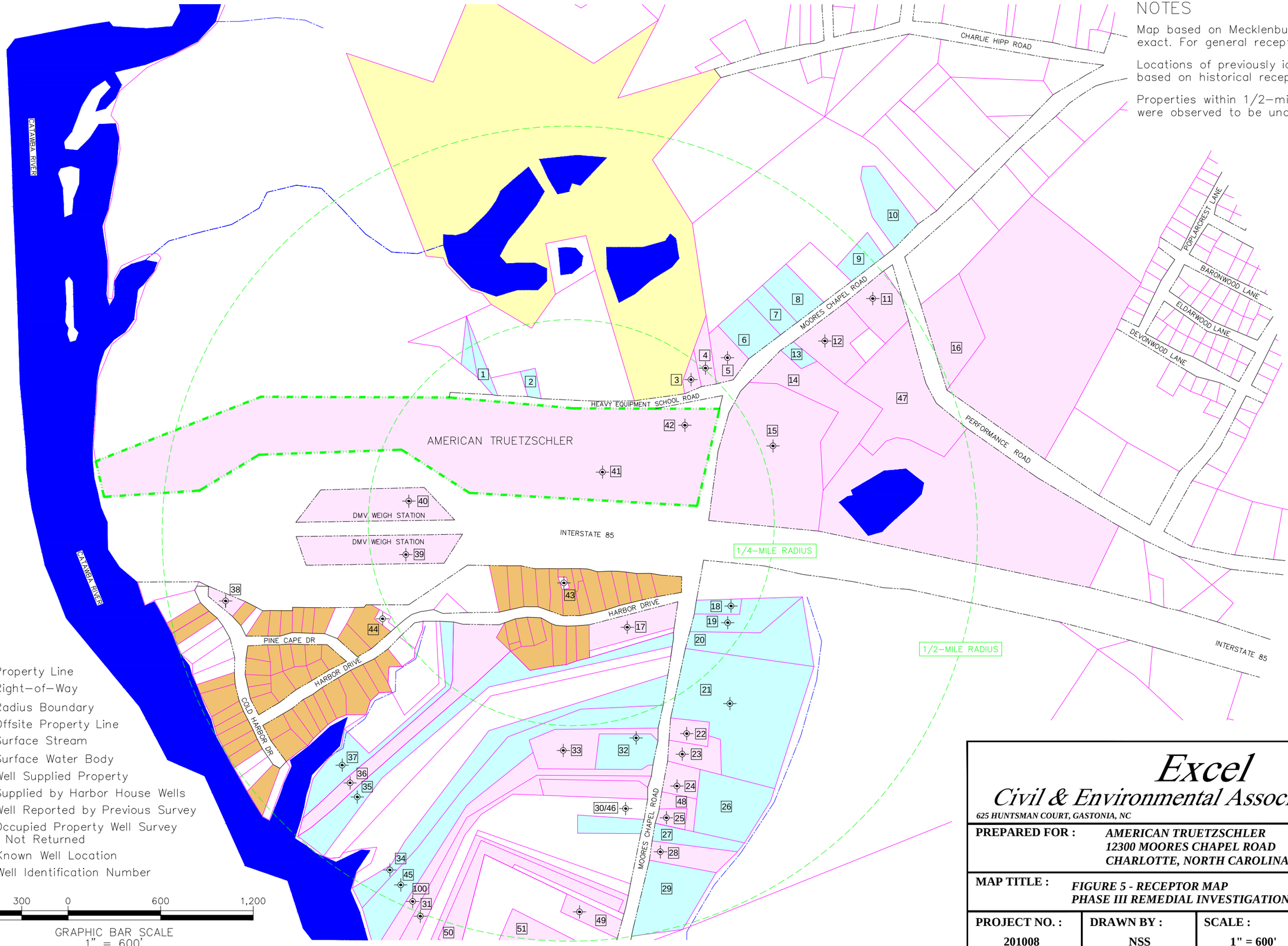
PREPARED FOR :	AMERICAN TRUETZSCHLER 12300 MOORES CHAPEL ROAD CHARLOTTE, NORTH CAROLINA
MAP TITLE :	FIGURE 4 - MONITORING WELL NETWORK MAP PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16



NOTES

Map based on Mecklenburg County GIS; not exact. For general receptor locations only

Locations of previously identified wells are based on historical receptor maps

Properties within 1/2-mile radius not shaded were observed to be undeveloped or vacant

LEGEND

- Property Line
- Right-of-Way
- Radius Boundary
- Offsite Property Line
- Surface Stream
- Surface Water Body
- Well Supplied Property
- Supplied by Harbor House Wells
- Well Reported by Previous Survey
- Occupied Property Well Survey Not Returned
- Known Well Location
- # Well Identification Number

600 300 0 600 1,200

GRAPHIC BAR SCALE
1" = 600'

Excel

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PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 5 - RECEPTOR MAP*
PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	NSS	1" = 600'	3/16/16

NOTES

Map based on physical survey completed by James Mauney & Assoc. dated 12/29/09.

Location of roadway for I-85 approximate

Data from liquid levels collected 12/16-17/13

DALES GROUP LLC PID # 05312204
DALES GROUP LLC PID # 05312205
DALES GROUP LLC PID # 05312206
PLANTATION PIPE LINE PID # 05312218
DORTHY HOFFMAN PID # 05312208
PLANTATION PIPE LINE PID # 05311105
KNOX GROUP 85 LLC PID # 05313211

HEAVY EQUIPMENT SCHOOL ROAD

MOORES CHAPEL ROAD

INTERSTATE I-85 (SOUTH BOUND)

MANUFACTURING & WAREHOUSE

OFFICES

ASPHALT
GRASS
CONCRETE
WOODED AREA
TANK
TANKS
WATER TANK
REMEDIATION COMPOUND
UVB WELL
DITCH
DITCH TO STORMWATER DETENTION POND
GUARD RAIL
CB
24" RCP
15" RCP
30" RCP
12" RCP
18" RCP

MW-1S [DRY]
MW-1V
MW-1D
PW-1
MW-2S [DRY]
MW-2D
MW-4D
MW-4S [153.95']
MW-5S [DRY]
MW-5D
MW-6S [159.37']
MW-6D
MW-7 [DRY]
MW-7S [171.39']
RW-1 [101.83']
MW-8 [133.20']
MW-3V
MW-3D (former)
MW-3S (former)
MW-9 [162.47']
MW-2V
MW-10

110' 120' 130' 140' 150' 158' 160' 170'

GRAPHIC BAR SCALE
1" = 100'
100 50 0 100 200

LEGEND

- Property Line
- Right-of-Way/Easement
- Overhead Electric
- Sanitary Sewer
- Fence Line
- Power Pole
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Recovery Well Location
- [100.00'] Water Table Elevation
- Groundwater Flow Direction

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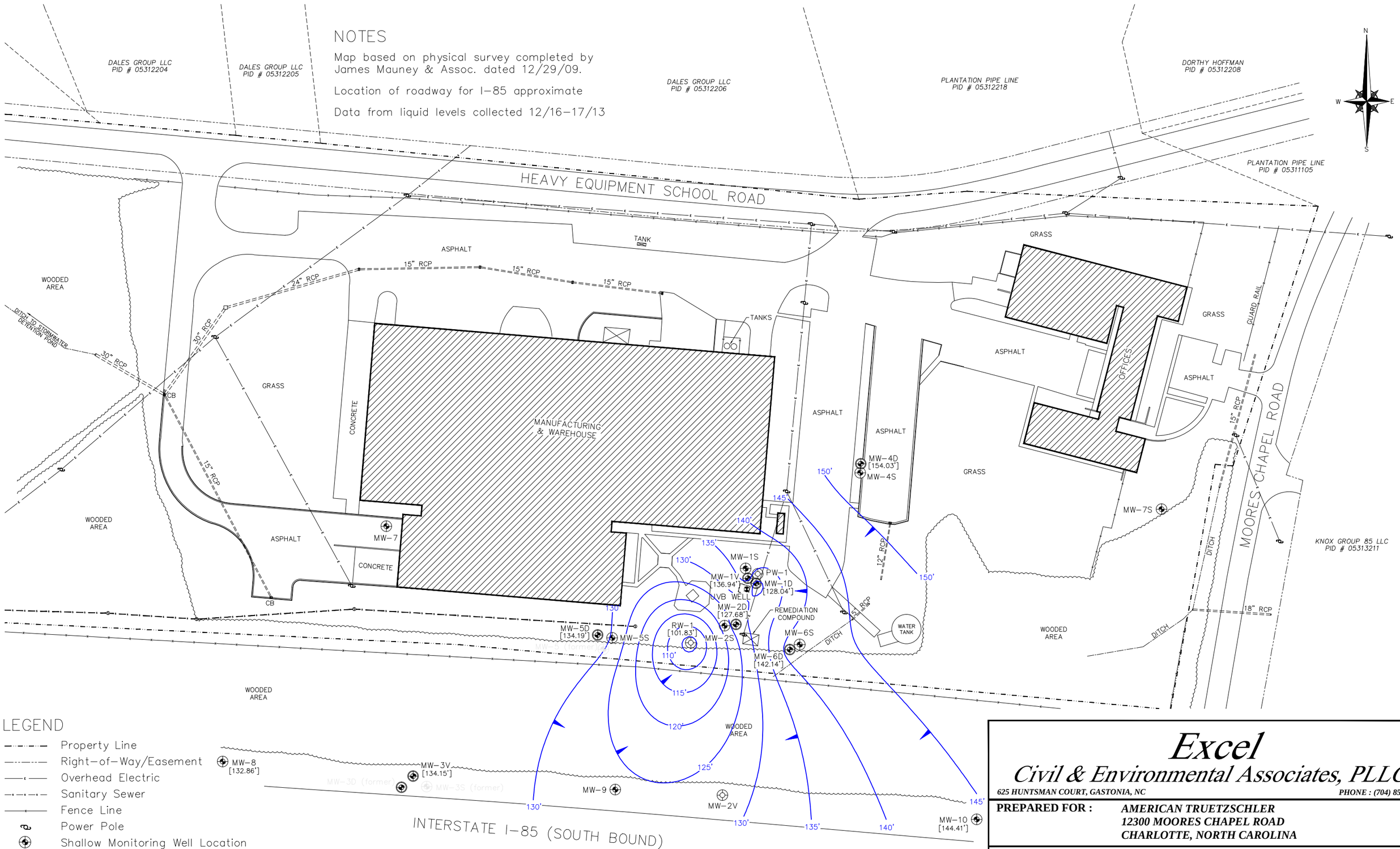
PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 6 - SHALLOW WATER TABLE CONTOUR MAP - 12/13*
PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	NSS	1" = 100'	3/16/16



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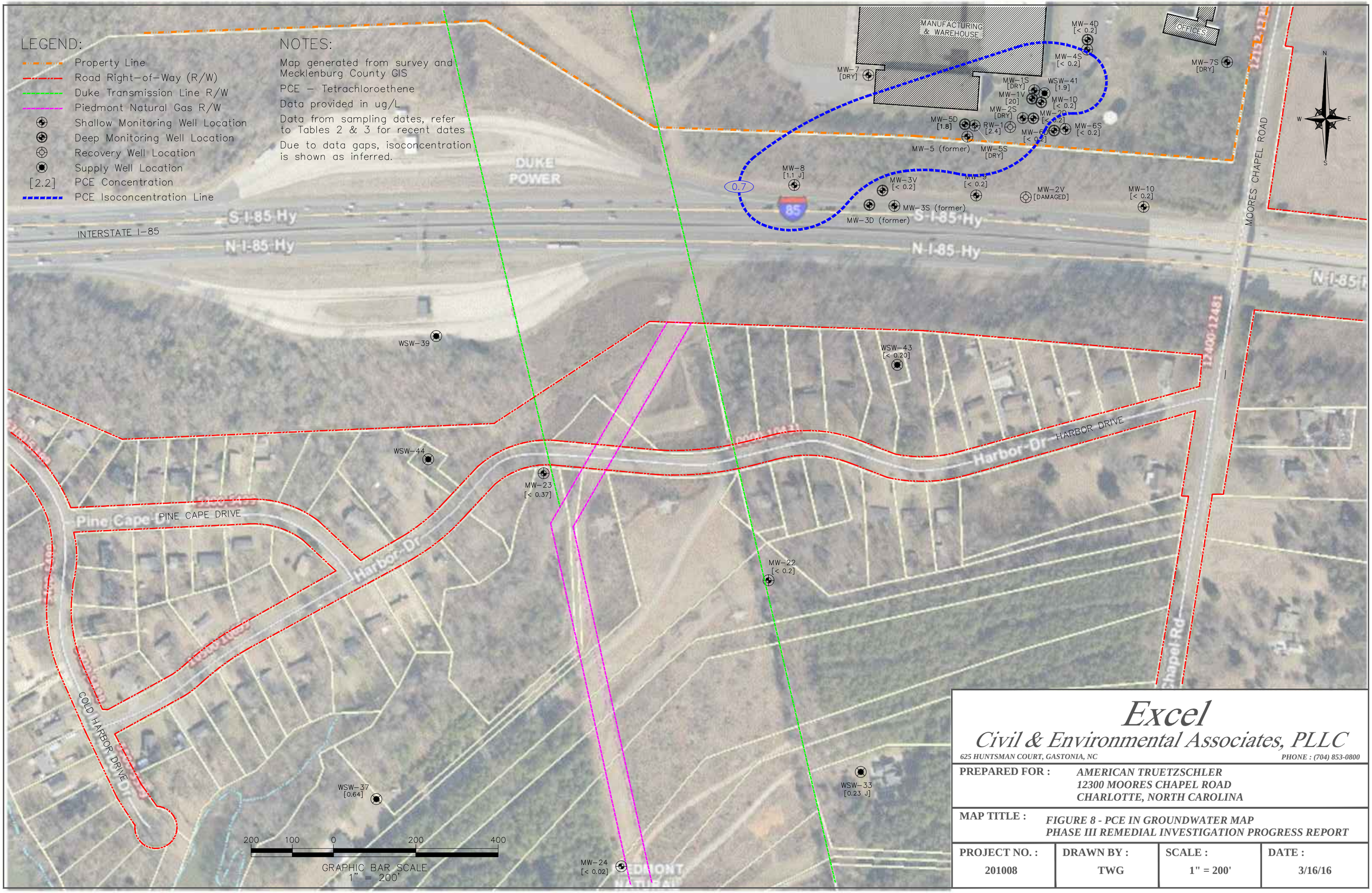
PREPARED FOR : AMERICAN TRUETZSCHLER
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : FIGURE 7 - DEEP WATER TABLE CONTOUR MAP - 12/13
PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	NSS	1" = 100'	3/16/16



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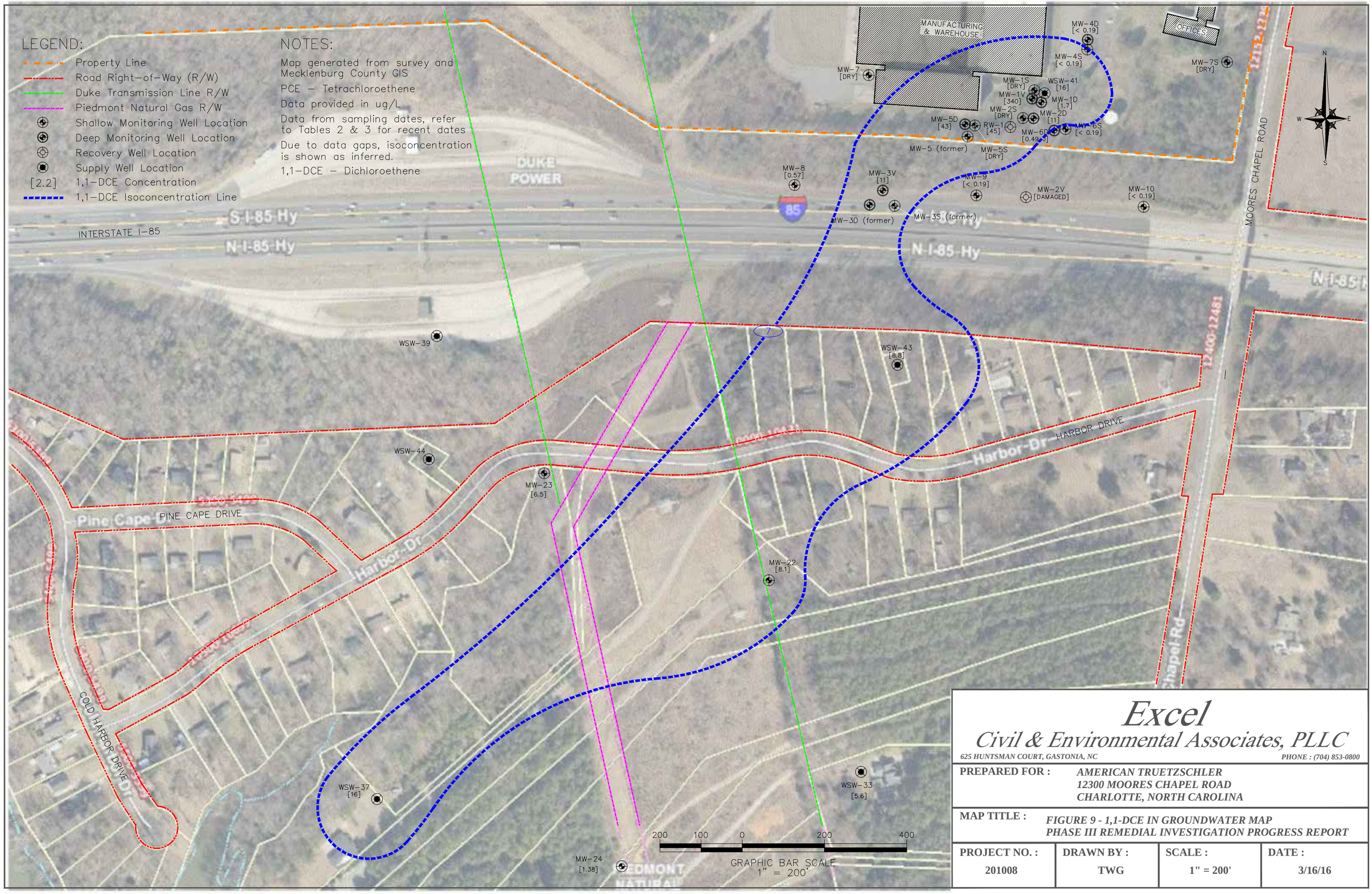
PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 8 - PCE IN GROUNDWATER MAP*
PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16



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PREPARED FOR : *AMERICAN TRUETZSCHLER*
12300 MOORES CHAPEL ROAD
CHARLOTTE, NORTH CAROLINA

MAP TITLE : *FIGURE 9 - 1,1-DCE IN GROUNDWATER MAP*
PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16

LEGEND:

- Property Line
- Road Right-of-Way (R/W)
- Duke Transmission Line R/W
- Piedmont Natural Gas R/W
- Shallow Monitoring Well Location
- Deep Monitoring Well Location
- Recovery Well Location
- Supply Well Location
- [2.2] 1,4-Dioxane Concentration
- 1,4-Dioxane Isoconcentration Line

NOTES:

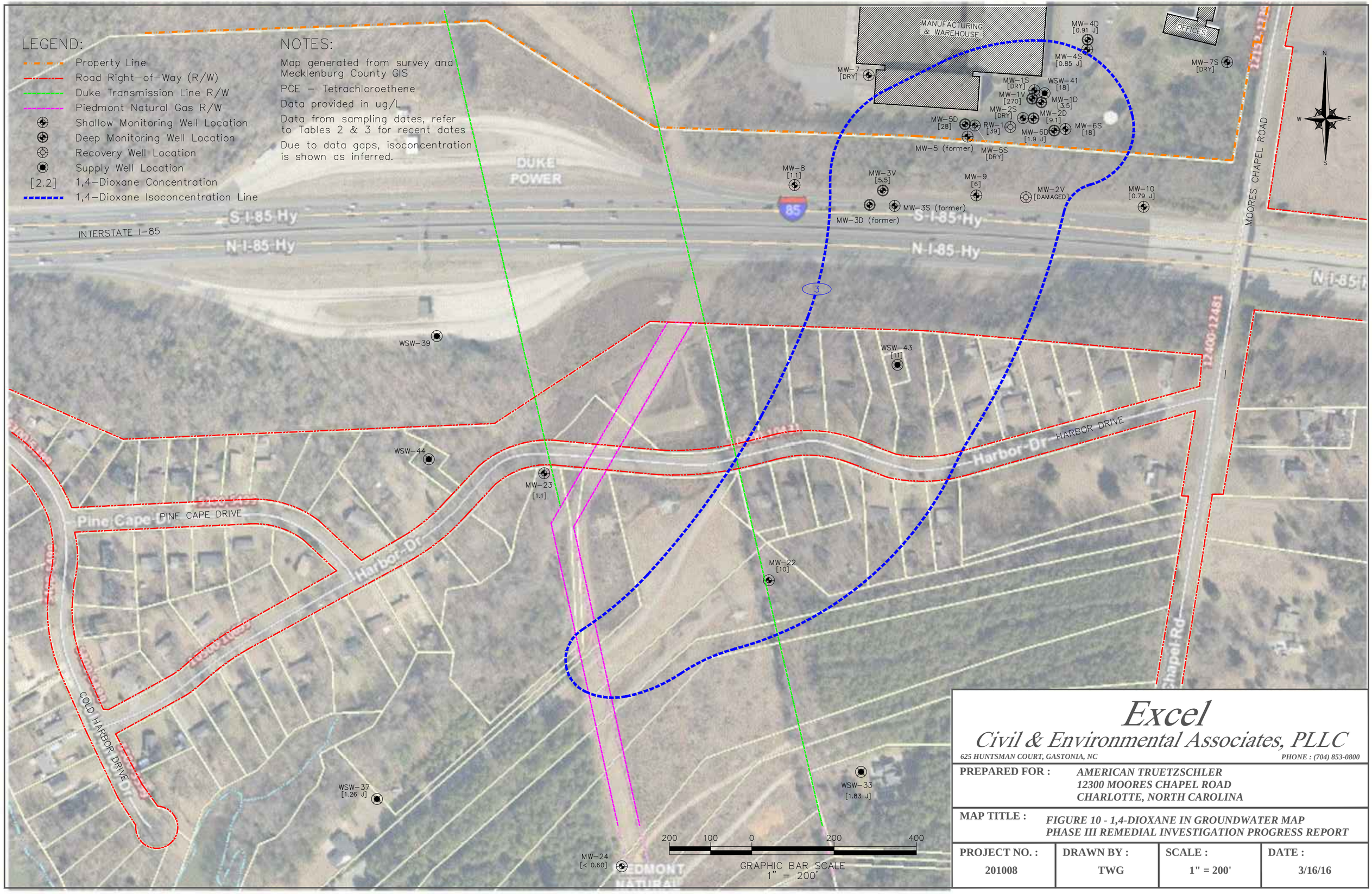
Map generated from survey and Mecklenburg County GIS

PCE – Tetrachloroethene

Data provided in ug/L

Data from sampling dates, refer to Tables 2 & 3 for recent dates

Due to data gaps, isoconcentration is shown as inferred.



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PREPARED FOR :	AMERICAN TRUETZSCHLER 12300 MOORES CHAPEL ROAD CHARLOTTE, NORTH CAROLINA
MAP TITLE :	FIGURE 10 - 1,4-DIOXANE IN GROUNDWATER MAP PHASE III REMEDIAL INVESTIGATION PROGRESS REPORT

PROJECT NO. :	DRAWN BY :	SCALE :	DATE :
201008	TWG	1" = 200'	3/16/16

List of Appendices

Appendix A - Laboratory Reports & Chain of Custody Form(s)

Appendix B - Groundwater Sampling Form(s)

Appendix C - Monitoring Well Construction Record

Appendix D – Monitor Well Permit

Appendix A

Laboratory Reports & Chain of Custody Form(s)

Appendix B

Groundwater Sampling Form(s)

ECEA Ground Water Sampling Form

Consultant Company: Excel Civil & Environmental Associates
Project: Groundwater Sampling Event
Facility: American Truetzschler

Location: Charlotte, NC
Date: 2/5/2016
Sampler(s): NSS

Sample Information

Sample ID: **MW-24**

Screen/Depth: 130-140

Collection Date: 2/5/2016

Collection Time(24:00): 1530

QA/QC Sample Collected: YES / NO

Type: _____

QA/QC ID: _____

Sampling Data

Sample collection based on: Purge Volume / Parameter Stabilization / other: _____

Sampling Method: Low Flow

Field Parameters

Time	Purge Volume (gallons)	Stabilization: pH (pH units)	Stabilization: Conductivity (mS/cm)	Stabilization: Turbidity (NTU)	Other Parameters: DO (mg/L)	Other Parameters: ORP (mV)	Other Parameters: Temp (Cent)
1315	0	--	--	--	--	--	--
1520	approx. 240	7.64	0.179	10.1	6.07	38	15.59
1523		7.61	0.179	9.2	5.00	39	15.68
1526		7.60	0.180	9.7	5.01	41	15.79
1529		7.61	0.180	9.5	4.99	41	15.83

Purge Volume Calculations

Total Well Depth	140.00	ft
Water Level:	24.08	ft
Water Column =	115.92	ft
Gallons per ft: x	0.163	gal
Well Volume =	18.89	gal

Well Volumes
To be Removed: _____ x _____ = _____ gallons to be purged prior to sampling LITERS

Well Casing Volumes (gallons per foot)		
1.0" = 0.041	2.0" = 0.163	3.0"=0.367
1.5" = 0.092	2.5" = 0.255	4.0" = 0.653

Stabilization Requirements:	
pH:	± 0.1 unit
Conductivity:	± 5%
Turbidity:	± 10%

Remarks: Purged to develop well/until water was clear, and then waited for paramter stabilization. Purged excess water to develop well and any materials associated with well installation. Purged at approximately 2 gpm.

Sample Description

Sample Color: clear

Sheen: none

Odor: none

NAPL present: none

Comments: _____

Appendix C

Monitoring Well Construction Record

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Will Keyes
Well Contractor Name

4220
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
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: 2/3/16 **Well ID#** xw-1

5a. Well Location:

Facility/Owner Name _____ Facility ID# (if applicable) _____

12546 Moores Chapel Rd, Charlotte, NC, 28214
Physical Address, City, and Zip

Mecklenburg
County _____ Parcel Identification No. (PIN) _____

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.253782 N -81.005276 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: 140 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 6.25" **(in.)**

12. Well construction method: _____
(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
0 ft.	130 ft.	2" in.	Sch. 40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
130 ft.	140 ft.	2" in.	0.010	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
2 ft.	126 ft.	Bentonite Grout	Tremie
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
128 ft.	140 ft.	Media Filter	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor _____ Date 3/14/2016

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.

1. Drilling location and setup at 12546 Moores Chapel Road.

2. Soils from surface to approximately 90-fbgs, and partially weathered rock.

3. Close up of partially weathered rock at approximately 90-fbgs

4. Partially weathered rock observed from approximately 90 to 130-fbgs. Bedrock encountered at approximately 130-fbgs.

5. Close up of bedrock encountered at approximately 130-fbgs.

Appendix D

Monitor Well Permits

Water Resources
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

S. JAY ZIMMERMAN
Director

December 4, 2015

Excel Civil & Environmental Engineering Associates, PLLC (via email)
625 Huntsman Court
Gastonia, NC 28054
Attention: Micheal Stanforth, PE

RE: Monitoring Well Construction Permit
Permit #WM0300855
American Trutzschler Site
12300 Moores Chapel Road
Mecklenburg County

Dear Mr. Stanforth,

In accordance with your completed application received on December 4, 2015, we are forwarding herewith Monitoring Well Construction Permit Numbered WM0300855 and issued for the construction of three monitoring wells located near the subject Site in Charlotte, Mecklenburg County.

This Permit will be effective for one year from the date of issuance and shall be subject to the conditions and limitations as specified therein.

Should you have any questions, please contact Edward Watson at (704) 663-1699 ext. 2198, or by email at edward.watson@ncdenr.gov.

Sincerely,

Andrew H. Pitner, P.G., Assistant Regional Supervisor
Mooresville Regional Office
Water Quality Regional Operations Section
Division of Water Resources, NCDEQ

CC: WQROS, Central Office

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES

PERMIT FOR THE CONSTRUCTION OF A 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

American Trutzschler (Excel Civil & Environmental Associates as Agent)

FOR THE CONSTRUCTION OF A MONITOR WELL SYSTEM consisting of one well owned by American Trutzschler, and located near the American Trutzschler site at 12300 Moores Chapel Road in Charlotte, Mecklenburg County. This Permit is issued in accordance with the application received on December 04, 2015, 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 obligate reimbursement from State trust funds, if these wells are being installed as part of an investigation for contamination from an underground storage tank or dry cleaner incident.
2. Issuance of this Permit does not supersede any other agreement, permit, or requirement issued by another agency.
3. The well(s) shall be located and constructed as shown on the attachments submitted as part of the Permit application.
4. Each well shall have a Well Contractor Identification Plate in accordance with 15A NCAC 02C .0108(o).
5. Well construction records (GW-1) for each well shall be submitted to the Division of Water Resources' Information Processing Unit within 30 days of the well completion.
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 Resources' Information Processing Unit within 30 days of the well abandonment.
7. Adequate permits must be obtained from Mecklenburg County Groundwater and Wastewater Services.

Permit issued the 4th day of December, 2015

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Andrew H. Pitner, P.G., Assistant Regional Supervisor
Division of Water Resources

By Authority of the Environmental Management Commission

Permit No. # WM0300855