hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

Via NC DOT FTS

December 4, 2017

NC DOT Geotechnical Engineering Unit
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

Attention: Mr. Gordon Box, LG

Re: Groundwater Assessment Report
Charlotte Gateway Station and Track and Safety Improvements
State Project P-5705B
WBS Element: 44475.1.2
Mecklenburg County, Charlotte, North Carolina
H&H Job No. ROW-515

Dear Gordon:

Please find attached one electronic copy of the Groundwater Assessment Report for the proposed Charlotte Gateway Station and Track and Safety Improvements located in Charlotte, Mecklenburg County, North Carolina. Please review and return via DocuSign for final signatures. If you have any questions or need additional information, please contact us at (704) 586-0007.

Sincerely,

Hart & Hickman, PC

David Graham, PG
Senior Project Geologist

Matt Bramblett, PE
Principal

Attachment

Groundwater Assessment Report
Charlotte Gateway Station and Track and Safety Improvements

Charlotte, Mecklenburg County
North Carolina

H&H Job No. ROW-515
State Project P-5705B
WBS Element #44475.1.2
December 4, 2017

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Groundwater Assessment Report
Charlotte Gateway Station and Track and Safety Improvements
Charlotte, Mecklenburg County, North Carolina
H&H Project ROW-515

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Groundwater Assessment Report
Charlotte Gateway Station and Track and Safety Improvements
Charlotte, Mecklenburg County, North Carolina
H&H Project ROW-515

1.0 Introduction and Background

Hart & Hickman, PC (H&H) has prepared this report documenting the installation of monitoring wells to evaluate groundwater for potential impacts near five proposed bridge structures (P&N, W. 4th Street, W. Trade Street, W. 5th Street, and W. 6th Street) for the Charlotte Gateway Station and Track and Safety Improvements in Charlotte, Mecklenburg County, North Carolina. A project location map is included as Figure 1, and site maps for each proposed bridge location are included as Figures 2 through 6. Assessment activities were conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with H&H's Technical and Cost Proposal dated September 5, 2017. A brief background of this project is discussed below.

The proposed bridge structures will be constructed to support the proposed rail tracks and passenger platform associated with the Charlotte Gateway Station and Track and Safety Improvements. At NC DOT's request, H&H installed one monitoring well near each proposed bridge structure to evaluate the groundwater in the area of proposed foundations (bridge piers). One existing monitoring well (MW-301) located at the Greyhound facility near W. Trade Street was also sampled as part of groundwater assessment activities. Prior to sampling the wells, H&H reviewed DOT provided environmental documents and other accessible documents for historical soil and groundwater contamination information near each bridge location to determine the appropriate analytical methods for groundwater sampling activities. In addition, soil and groundwater from the monitoring well borings were sampled to evaluate the potential for corrosion for the proposed bridge foundation components.

The activities associated with groundwater assessment and corrosion potential evaluation near the proposed bridge structures are described below.

2.0 Groundwater Assessment

2.1 Monitoring Well Installation Activities

To evaluate the potential for groundwater impacts, one Type II monitoring well was installed near each proposed bridge structure. Monitoring well MW-1 was installed on NC DOT Parcel 3B south of the proposed W. 4th Street bridge; MW-2 was installed on NC DOT Parcel 14 southeast of the proposed W. Trade Street bridge; MW-3 was installed on NC DOT Parcel 12 southeast of the proposed W. 5th Street bridge; MW-4 was installed on NC DOT Parcel 24A southeast of the proposed W. 6th Street bridge; and MW-5 was installed adjacent to the railroad tracks on the western portion of NC DOT Parcel 25A. The monitoring well locations are depicted on Figures 2 through 6.

Prior to conducting field activities, a Subsurface Investigation Permit (SIP) was obtained for the wells as required by Mecklenburg County. Only one permit was required for the five proposed wells. The SIP is provided in Appendix A.

H&H contracted with SAEDACCO, Inc. of Fort Mill, South Carolina to install the monitoring wells. Monitoring wells MW-1 through MW-4 were installed between September 25 through 27, 2017 using a truck mounted drilling rig with hollow stem augers (HSAs). Due to the difficult drilling location near the railroad tracks, monitoring well MW-5 was installed on October 18, 2017 using a track mounted drilling rig with HSAs. Soil samples were collected at each well location during drilling activities via a split-spoon sampler. Soil samples were collected at approximate 6 to 10 ft intervals for corrosion potential analyses. Corrosion potential evaluation is discussed in Section 3.0 below.

During sampling activities, soil samples from each well boring were screened for the presence of volatile organic compounds (VOCs) with a photo ionization detector (PID). Additionally, H&H observed the soil for visual and olfactory indications of impacts. With the exception of MW-5, there were no significant indications of impacts based on field screening of the well borings. Coal ash was identified from approximately 0 to 3 ft below ground surface (bgs) in boring MW-5. Coal

ash typically contains polynuclear aromatic hydrocarbons (PAHs) and may contain elevated metal concentrations.

The Type II monitoring wells were each installed with a two-inch diameter PVC riser with 0.010-inch slotted PVC screen. Monitoring well MW-1 was installed to a depth of 40 ft bgs with 25 ft of screen; MW-2 and MW-3 were each installed to a depth of 37 ft bgs with 25 ft of screen; MW-4 was installed to a depth of 29.5 ft bgs with 25 ft of screen; and MW-5 was installed to a depth of 27 ft bgs with 15 ft of screen. The annulus around the well screens were filled with filter pack sand to an elevation approximately one to two ft above the well screens. The remaining annulus around the well riser was filled with one to two ft of hydrated bentonite which was followed by grout to the surface to finish well construction. The monitoring well construction records and boring logs are included in Appendix B. Well construction data and GPS coordinates for the wells are included in Table 1.

Upon completion of the monitoring well installations, H&H developed the wells (MW-1 through MW-4) utilizing a submersible pump to remove sediment from wells to the extent practical. Once development was complete and the water table equilibrated, H&H measured depth to water using an electronic meter. The static depth to water in wells MW-1, MW-2, MW-3, and MW-4 was approximately 18.41 ft bgs, 17.21 ft bgs, 15.2 ft bgs and 4.81 ft bgs, respectively.

Please note that monitoring well MW-5 was installed on top of rock (27 ft bgs) using HSAs. MW-5 was dry after well installation activities. However, due to the difficult drilling location the well was set and no other drilling methods were used to install the well further into rock. On November 29, 2017, approximately 6 weeks after MW-5 was installed, H&H gauged MW-5 for the presence of water. No water was identified in the well.

2.2 Groundwater Sampling Activities

On October 2, 2017, H&H collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-4. On October 19, 2017, H&H collected a groundwater sample from existing monitoring well (MW-301) which is located at the Greyhound facility property on the western side

of W. Trade Street (see Figure 4). Prior to sample collection, static water levels were collected from each of the monitoring wells. The monitoring wells were purged by low flow/low stress purging techniques using a peristaltic pump and dedicated polyethylene tubing. The intake point of the pump tubing was placed in the approximate mid-portion of the screened interval of the well and groundwater was removed at a rate no greater than 200 milliliters per minute. H&H utilized a water quality meter to obtain field measurements including pH, dissolved oxygen (DO), temperature, specific conductivity, and oxidation reduction potential (ORP) at 3-5 minute intervals during the purging process until the parameters stabilized. In addition, because metals results can be influenced by turbidity, groundwater samples were obtained once field turbidity values measured less than 10 nephelometric turbidity units (NTUs). The field parameters are presented on the Low-Flow Groundwater Sampling Records for each well which are included in Appendix C.

Once groundwater parameters stabilized, the groundwater samples were collected directly into laboratory supplied sample containers. The sample containers were labeled with the sample identification, date, and requested analysis, and placed in a laboratory supplied cooler and iced. The samples were delivered to a DOT approved North Carolina certified laboratory under standard chain of custody protocol. The DOT laboratory covering Mecklenburg County is Prism Laboratories, Inc. (Prism).

As mentioned above, H&H reviewed nearby historical site information and determined the following analyses were appropriate for each of the monitoring wells: VOCs by EPA Method 8260, semi-VOCs (SVOCs) by EPA Method 8270, and RCRA metals by EPA Method 6010/7470. RCRA metals were also field filtered using a 0.45 micron filter for analysis by EPA Method 6010/7470 for comparison purposes. Groundwater samples were also analyzed for corrosion potential parameters including pH by EPA Method 4500 (laboratory and field measurements) and chloride and sulfate using EPA Method 9056. The groundwater analytical results are summarized in Table 2. Laboratory analytical data sheets for the groundwater samples and chain-of-custody documentation are provided in Appendix D.

2.3 Groundwater Results

Concentrations of VOCs were detected in each of the newly installed monitoring wells (MW-1, though MW-4) and existing well (MW-301) above the NC DEQ 15A NCAC 2L .0202 Groundwater Quality Standards (2L Standards). A concentration of tetrachloroethylene (PCE) (0.037 mg/L) was detected in MW-1 above the 2L Standard (0.0007 mg/L). Concentrations of carbon tetrachloride (0.0092 mg/L), PCE (0.055 mg/L), and TCE (0.013 mg/L) were detected in MW-2 above their respective 2L Standards. The 2L Standards for carbon tetrachloride and TCE are 0.0003 mg/L and 0.003 mg/L, respectively. A concentration of PCE (0.0012 mg/L) was detected in MW-3 above the 2L Standard. A concentration of carbon tetrachloride (0.012 mg/L) was detected in MW-4 above the 2L Standard. Concentrations of benzene (0.048 mg/L), carbon tetrachloride (0.0069 mg/L), 1,2-dichloroethane (1,2-DCA) (0.0018 mg/L) and PCE (0.011 mg/L) were detected in MW-301 above their respective 2L Standards. The 2L Standards for benzene and 1,2-DCA are 0.001 mg/L and 0.0004 mg/L, respectively

Low level concentrations of VOCs including acetone, chloroform, cis-1,2-dichloroethylene isopropyl ether, methyl-tert-butyl ether (MTBE), and/or naphthalene were also detected in wells MW-1 through MW-4 and MW-301 but did not exceed the 2L Standards.

Low level concentrations of mercury (0.0087 mg/L) and selenium (0.026 mg/L) were detected in monitoring well MW-301 above the 2L Standards of 0.001 mg/L and 0.020 mg/L, respectively. Low level concentrations of barium were also detected in wells MW-1 through MW-4 and MW-301 but did not exceed the 2L Standard. There were no significant differences in field filtered metals results versus non-filtered metals results.

No SVOCs were detected in wells MW-1 through MW-4 and MW-301.

Groundwater corrosion potential parameters indicate that the groundwater pH results ranged from 5.6 to 6.4 pH units in groundwater samples collected from MW-1 through MW-4 and MW-301. These pH measurements are just below the 2L Standard acceptable range of 6.5 to 8.5. Concentrations of sulfate (ranging from 21 mg/L to 150 mg/L) and chloride (ranging from 28

mg/L to 64 mg/L) were detected in monitoring wells MW-1 through MW-4 and MW-301 below the 2L Standard. Corrosion potential parameters are discussed further in Section 3.0 below.

Although no groundwater was detected in monitoring well MW-5, H&H obtained historical information for monitoring wells associated with the former Textile Chemical Facility site that was previously located to the southeast of the proposed P&N bridge structure. Based on these historical data, concentrations of PCE (up to 0.39 mg/L) and TCE (up to 0.20 mg/L) and other VOCs were detected in monitoring wells MW-16 and MW-17 above the 2L Standards. Wells MW-16 and MW-17 were previously located approximately 150 ft southeast of the proposed P&N bridge location. Historical analytical data and well locations for the former Textile Chemical facility are provided in Appendix E.

3.0 Corrosion Potential Evaluation

3.1 Corrosion Potential Sampling Activities

To evaluate the potential for corrosion protection for the bridge foundation components, soil samples were collected from each well boring (MW-1 through MW-5). Three soil samples were collected from wells MW-4 and MW-5, and four soil samples were collected from wells MW-1 though MW-3. The soil samples were collected at approximate 8 to 10 ft intervals using split spoon samplers and/or auger cuttings. The soil samples were submitted to Prism for analysis of pH by EPA Method 9045, and chloride and sulfate by EPA Method 9056. A portion of each soil sample was also provided to GeoTechnologies, Inc. for electrical resistivity testing by ASTM G-57. With the exception of MW-5, a groundwater sample was also collected from each well and analyzed for corrosion potential analyses including pH, chloride and sulfate as described in Section 2.0 above. The groundwater pH, chloride and sulfate analytical results are summarized in Table 2, and the soil analytical results and electrical resistivity test results are summarized in Table 3. Laboratory analytical data sheets for the soil and groundwater samples and electrical resistivity data are included in GeoTechnologies *Laboratory Test Results & Corrosion Analysis Report* dated November 21, 2017, which is provided in Appendix F.

Using the pH, chloride, and sulfate analytical results and the electrical resistivity test results GeoTechnologies evaluated the potential for corrosion of bridge foundation components near each well boring location. Because no soil samples were collected from existing well MW-301, this boring location was not evaluated for corrosion potential.

3.2 Corrosion Potential Results

The average electrical resistivity, pH, and sulfate results for soil samples collected from MW-1 are 4,032 Ohms, 7.2 pH units, and 28 mg/kg, respectively. No chloride was detected in the soil samples collected from MW-1. Groundwater pH laboratory and field measurements from MW-1 are 6.3 and 6.06 pH units, respectively. Sulfate and chloride were detected in groundwater collected from MW-1 at concentrations of 30 mg/L and 28 mg/L, respectively.

The average electrical resistivity, pH, sulfate, and chloride results for soil samples collected from MW-2 are 4,294 Ohms, 6.8 pH units, 28 mg/kg, and 15 mg/kg, respectively. Groundwater pH laboratory and field measurements from MW-2 are 5.9 and 5.6 pH units, respectively. Sulfate and chloride were detected in groundwater collected from MW-2 at concentrations of 53 mg/L and 45 mg/L, respectively.

The average electrical resistivity, pH, sulfate, and chloride results for soil samples collected from MW-3 are 3,478 Ohms, 7.7 pH units, 22 mg/kg, and 26 mg/kg, respectively. Groundwater pH laboratory and field measurements from MW-3 are 6.4 and 6.28 pH units, respectively. Sulfate and chloride were detected in groundwater collected from MW-3 at concentrations of 21 mg/L and 64 mg/L, respectively.

The average electrical resistivity, pH, sulfate, and chloride results for soil samples collected from MW-4 are 4,328 Ohms, 8.3 pH units, 93 mg/kg, and 13 mg/kg, respectively. Groundwater pH laboratory and field measurements from MW-4 are 6.4 and 6.32 pH units, respectively. Sulfate and chloride were detected in groundwater collected from MW-4 at concentrations of 61 mg/L and 43 mg/L, respectively.

The average electrical resistivity, pH, and sulfate results for soil samples collected from MW-5 are 5,443 Ohms, 6.6 pH units, and 42 mg/kg, respectively. No chloride was detected in the soil samples collected from MW-5. Monitoring well MW-5 was dry. Therefore, no groundwater samples were collected from MW-5.

Please note that sulfate and chloride were not detected in each soil sample collected from the well borings. In this case, only detected sulfate and chloride concentrations are used in the averages noted above.

GeoTechnologies evaluated the potential for corrosion of bridge foundation components near each well boring location based on the results described above. According to GeoTechnologies *Laboratory Test Results & Corrosion Analysis Report* dated November 21, 2017, there is a moderate potential for corrosion at each well location near proposed bridge structures at P&N, W. 4th Street, W. Trade Street, W. 5th Street, and W. 6th Street. GeoTechnologies report indicates that these results are typical for the North Carolina region and that standard construction practices are applicable for the proposed bridge foundations.

4.0 Investigative Derived Waste

Decontamination/purge water and soil cuttings generated during the well installation activities were containerized in 55-gallon drums. Soil samples IDW-Soil (MW-1), IDW-Soil (MW-2), IDW-Soil (MW-3), IDW-Soil (MW-4), and IDW-Soil (MW-5) were collected from the soil cutting drums from each well location and were analyzed for PCBs by EPA Method 8082, VOCs, SVOCs, RCRA Metals by EPA Method 6010/7471, and toxicity characteristic leaching procedure (TCLP) RCRA Metals by EPA Method 6010/7470. Low level total metals were detected in each of these soil samples. No TCLP metals were detected in the soil cuttings. No other constituents were detected in the soil samples. Therefore, the soil drums were managed as non-hazardous waste.

Water drum samples IDW-Water (MW-1), IDW-Water (MW-2), IDW-Water (MW-3), and IDW-Water (MW-4) were analyzed for VOCs, SVOCs, and RCRA Metals. Low level VOCs and barium were detected in each of the water samples. VOCs and barium detections do not

exceed characteristically hazardous waste thresholds; therefore, the drums were managed as non-hazardous. Laboratory analytical data sheets and chain-of-custody documentation for investigative derived waste (IDW) are provided in Appendix D. The non-hazardous IDW drums were removed by EVO Corporation of Winston-Salem, NC for proper off-site disposal. The non-hazardous soil, water, and ppe/plastic disposal manifests are included in Appendix G.

5.0 Conclusions and Recommendations

H&H has completed installation of monitoring wells to evaluate groundwater for potential impacts near five proposed bridge structures (P&N, W. 4th Street, W. Trade Street, W. 5th Street, and W. 6th Street) for the proposed Charlotte Gateway Station and Track and Safety Improvements. Soil and groundwater from the monitoring well borings were also sampled to evaluate the potential for corrosion of the proposed bridge foundation components.

Concentrations of VOCs were detected in each of the groundwater samples collected from newly installed monitoring wells (MW-1 through MW-4) and existing well (MW-301) above the 2L Standards. Low level concentrations of metals were also detected above the 2L Standards in existing well MW-301. The groundwater impacts are located near the proposed bridge structures at W. 4th Street (MW-1), W. Trade Street (MW-2 and MW-301), W. 5th Street (MW-3), and W. 6th Street (MW-4). Historical data indicate that groundwater is impacted with VOCs near the proposed P&N bridge location. NC DOT plans indicate that bridge foundation components will likely be installed below the water table. Based on conversations with DOT, dewatering of groundwater will be limited during the construction activities. However, if groundwater is generated during dewatering activities (at each proposed bridge structure) it should be properly managed and disposed at a permitted facility. If significant groundwater is expected to be generated, consultation with NC DEQ with regard to the potential need for a NPDES permit for dewatering activities should be conducted prior to construction activities.

Because there is a potential for groundwater VOCs to be entrained in soil cuttings that will be generated during construction of each of the proposed bridge foundations, these soil cuttings should

be managed as non-hazardous impacted soil or they should be sampled to determine their potential for impacts prior to re-use or removal from the proposed bridge locations.

Coal ash was identified near the proposed P&N bridge location during installation of monitoring well MW-5. Coal ash is typically impacted with PAHs and/or heavy metals. It is often identified along existing railroads. Impacted soil that is disturbed or removed during construction activities should be properly managed by trained personnel and disposed at a permitted facility.

Based on GeoTechnologies evaluation of corrosion potential, there is a moderate potential for corrosion near the proposed bridge structures at P&N, W. 4th Street, W. Trade Street, W. 5th Street, and W. 6th Street. GeoTechnologies evaluation indicates that the corrosion potential results are typical for the North Carolina region and that standard construction practices are applicable for the proposed bridge foundations.

6.0 Signature Page

This report was prepared by:

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9F6FAD6E6BA3ABE...

NORTH CAROLINA LICENSED SEAL 2535 GEOLOGIST DAVID B. GRAHAM

David Graham, PG
Senior Project Geologist for
Hart and Hickman, PC

This report was reviewed by:

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Matt Bramblett, PE
Principal and Project Manager for
Hart and Hickman, PC

Not considered final unless all signatures are completed.

Table 1 (Page 1 of 1)
Summary of Well Construction, GPS Coordinate, and Water Level Data
Charlotte Gateway Station
Charlotte, Mecklenburg County, North Carolina
H&H Job No. ROW-515

Monitoring Well ID	Latitude	Longitude	Screened Interval (ft bgs)	Total Depth (ft bgs)	Depth to Water (ft TOC)*
MW-1	35.2304732	-80.8492916	15 - 40	40	18.35
MW-2	35.2317379	-80.8480276	12 - 37	37	17.89
MW-3	35.2325444	-80.8469554	12 - 37	37	18.49
MW-4	35.2333046	-80.8461583	4.5 - 29.5	29.5	5.51
MW-5	35.2279278	-80.8526114	12 - 27	27	Dry
MW-301	35.2313746	-80.8483925	15 - 30	30	19.88

Notes:

1) Sample location data collected by H&H using a Trimble GeoExplorer 6000 handheld GPS unit.

2) Latitude and longitude data based on NAD1983 (CORS96) datum.

bgs = Below ground surface

ft TOC = Depth in feet below top of well casing.

*= Depth to water measured in MW-1 through MW-4 on October 2, 2017 and MW-301 on October 19, 2017. No water was identified in MW-5 on October 18, 2017 and November 28, 2017.

Table 2 (Page 1 of 1)
Summary of Groundwater Analytical Results
Charlotte Gateway Station
Charlotte, Mecklenburg County, North Carolina
H&H Job No. ROW-515

Sample ID Sample Date	MW-1 10/2/2017	MW-2 10/2/2017	MW-3 10/2/2017	MW-4 10/2/2017	MW-301 10/19/2017	**Screening Criteria NC 2L Standards[1]**
pH (Lab Method 4500)(pH units)	**6.3**	**5.9**	**6.4**	**6.4**	**6.0**	6.5-8.5
pH (Field Method 4500)(pH units)	**6.06**	**5.6**	**6.28**	**6.32**	**5.79**	6.5-8.5
Turbidity (NTUs)	8.86	7.99	9.55	7.48	4.12	NA
Sulfate (9056)(mg/L)	30	53	21	61	150	250
Chloride (9056)(mg/L)	28	45	64	43	51	250
VOCs (8260)(mg/L)						
Acetone	<0.0050	<0.0050	<0.0050	<0.0050	0.0065	6.0
Benzene	<0.00050	<0.00050	<0.00050	<0.00050	**0.048**	0.001
Carbon Tetrachloride	<0.00050	**0.0092**	<0.00050	**0.012**	**0.0069**	0.0003
Chloroform	0.0095	0.011	0.0067	0.0024	0.004	0.07
1,2-Dichloroethane	<0.00050	<0.00050	<0.00050	<0.00050	**0.0018**	0.0004
cis-1,2-Dichloroethylene	<0.00050	0.003	<0.00050	<0.00050	<0.00050	0.07
Isopropyl Ether	<0.00050	<0.00050	<0.00050	0.0058	0.0081	0.07
Methyl-tert-Butyl Ether	<0.00050	0.00052	<0.00050	<0.00050	0.0079	0.02
Naphthalene	<0.0010	<0.0010	<0.0010	<0.0010	0.0021	0.006
Tetrachloroethylene	**0.037**	**0.055**	**0.0012**	<0.00050	**0.011**	0.0007
Trichloroethylene	0.0018	**0.013**	<0.00050	<0.00050	<0.00050	0.003
SVOCs (8270)(mg/L)	BRL	BRL	BRL	BRL	BRL	NA
RCRA Metals (6010/7470) (mg/L)						
Barium	0.057	0.083	0.030	0.15	0.068	0.70
Mercury	<0.00020	<0.00020	<0.00020	<0.00020	**0.0087**	0.001
Dissolved RCRA Metals (6010/7470) (mg/L)						
Barium	0.057	0.081	0.030	0.15	0.064	0.70
Selenium	<0.020	<0.020	<0.020	<0.020	**0.026**	0.020

Notes:
1. NC DEQ 15A NCAC 2L .0202 Groundwater Quality Standards - April 2013
EPA Method follows parameter in parenthesis
NA = Not applicable; BRL=Below laboratory reporting limit;
VOCs=volatile organic compounds; SVOCs=semi-VOCs; NTU = Nephelometric Turbidity Unit
Bold indicates above 2L Standard.
Only compounds detected in at least one sample are shown above. pH levels appear to be natural.

Table 3 (Page 1 of 2)
Summary of Corrosion Potential Evaluation Data (Soil)
Charlotte Gateway Station
Charlotte, Mecklenburg County, North Carolina
H&H Job No. ROW-515

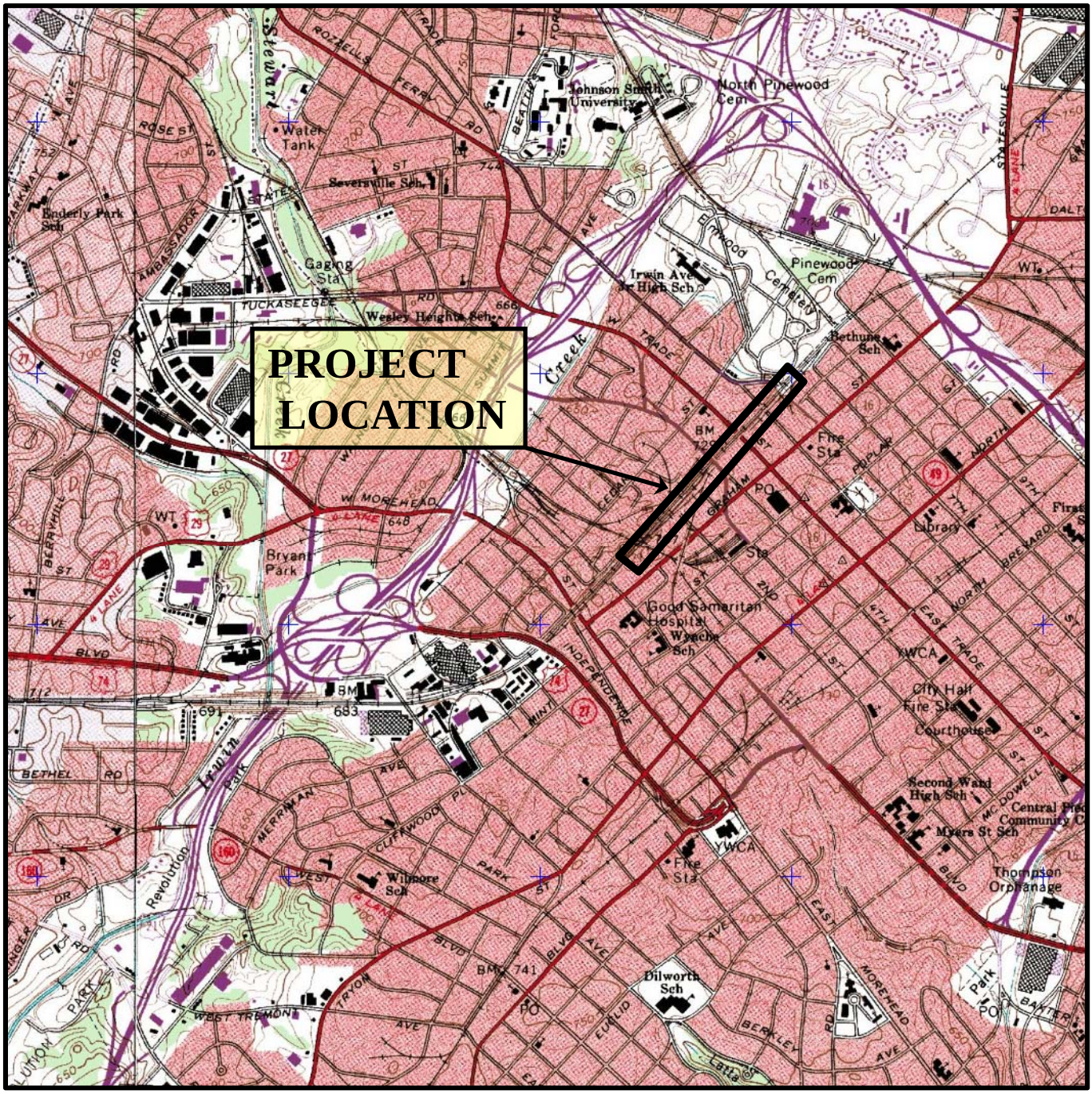
Sample ID Sample Date	MW-1 (9-11) 9/25/2017	MW-1 (19-21) 9/25/2017	MW-1 (29-31) 9/25/2017	MW-1 (39-41) 9/25/2017	MW-2 (9-11) 9/27/2017	MW-2 (19-21) 9/27/2017	MW-2(29-31) 9/27/2017	MW-2 (37-38.5) 9/27/2017
pH (9045D)(pH units)	7.2	7.2	7.1	7.3	7.1	6.5	6.6	6.9
Sulfate (9056A)(mg/kg)	51	21	15	25	39	20	24	<12
Chloride (9056A)(mg/kg)	<13	<13	<12	<12	14	20	<13	12
Electrical Resistivity* (ASTM G-57) (Ohms)	4,737	5,443	5,040	4,737	9,173	3,830	3,629	4,435

Notes:
EPA/ASTM Method follows parameter in parentheses;
Ohms = unit of electrical resistance
Electrical resistivity value for each sample shown at natural moisture content. See GeoTechnologies, Inc. Laboratory Test Results & Corosion Analysis Report dated November 21, 2017 for additional electrical resistivity values per sample as required by ASTM G-57.

Table 3 (Page 2 of 2)
Summary of Corrosion Potential Evaluation Data (Soil)
Charlotte Gateway Station
Charlotte, Mecklenburg County, North Carolina
H&H Job No. ROW-515

Sample ID Sample Date	MW-3 (9-11) 9/26/2017	MW-3 (19-21) 9/26/2017	MW-3 (29-31) 9/26/2017	MW-3 (35-37) 9/26/2017	MW-4 (9-11) 9/26/2017	MW-4 (19-21) 9/26/2017	MW-4(28-30) 9/26/2017	MW-5(9-11) 10/18/2017	MW-5(19-21) 10/18/2017	MW-5(25-27) 10/18/2017
pH (9045D)(pH units)	8.0	7.2	7.4	8.0	8.1	8.4	8.4	6.1	6.7	7.0
Sulfate (9056A)(mg/kg)	22	<12	<12	<14	130	<11	56	57	24	44
Chloride (9056A)(mg/kg)	<12	<12	<12	26	12	<11	14	<13	<13	<13
Electrical Resistivity* (ASTM G-57) (Ohms)	4,737	4,334	6,250	2,621	2,318	2,318	9,778	4,838	4,233	7,258

Notes:
EPA/ASTM Method follows parameter in parentheses;
Ohms = unit of electrical resistance
Electrical resistivity value for each sample shown at natural moisture content. See GeoTechnologies, Inc. Laboratory Test Results & Corosion Analysis Report dated November 21, 2017 for additional electrical resistivity values per sample as required by ASTM G-57.



APPROXIMATE

0 2000 4000

SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

Charlotte East, NC 1991

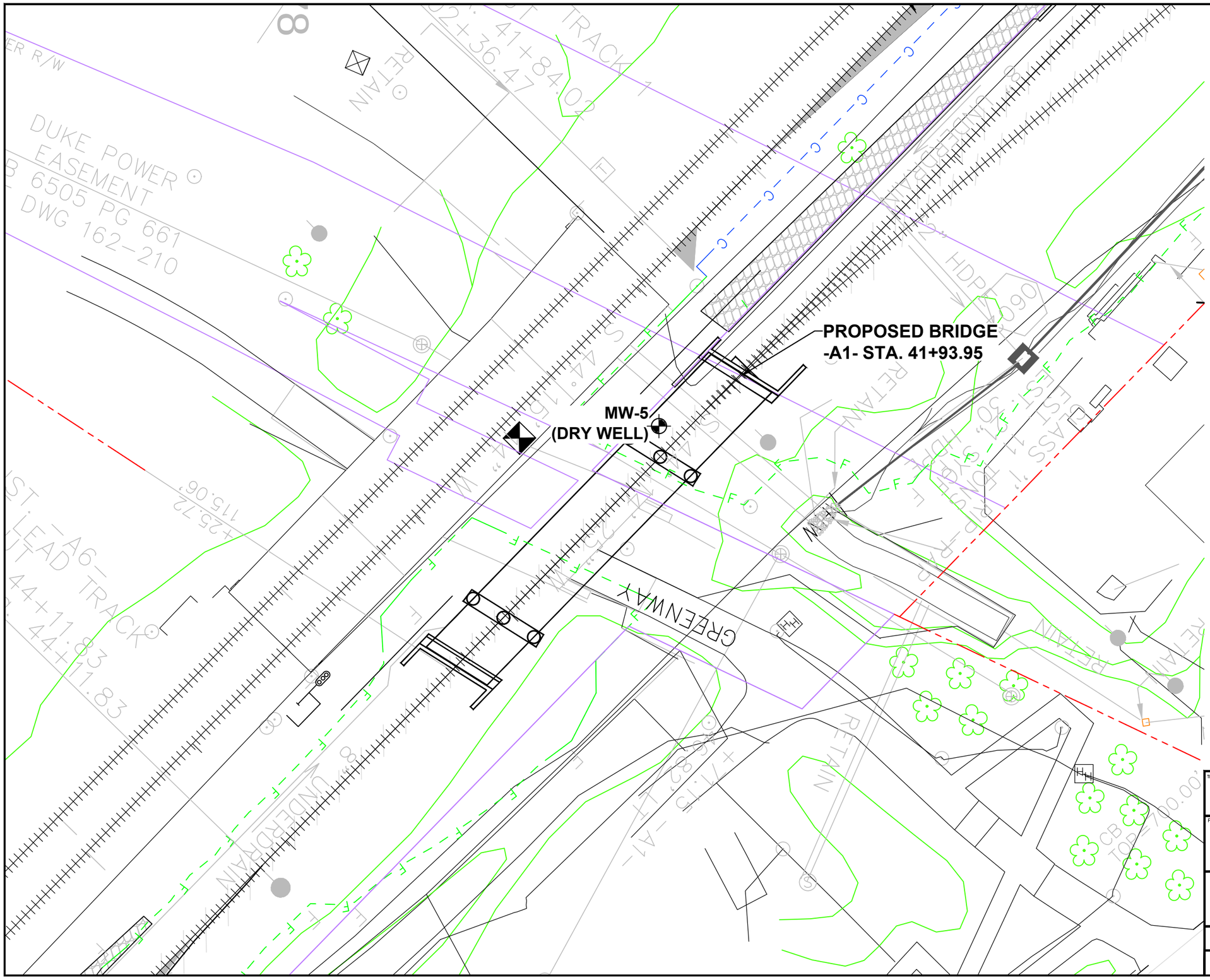
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	**PROJECT LOCATION MAP**
PROJECT	CHARLOTTE GATEWAY STATION CHARLOTTE MECKLENBURG COUNTY, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007 (p) 704-586-0373 (f)

DATE:	11-29-17	REVISION NO:	0
JOB NO:	ROW-515	FIGURE:	1



LEGEND

- RAILROAD TRACKS
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DRAINAGE PIPING
- PROPOSED CATCH BASIN
- MONITORING WELL

N

APPROXIMATE

0 30 60

SCALE IN FEET

TITLE

P&N SITE MAP

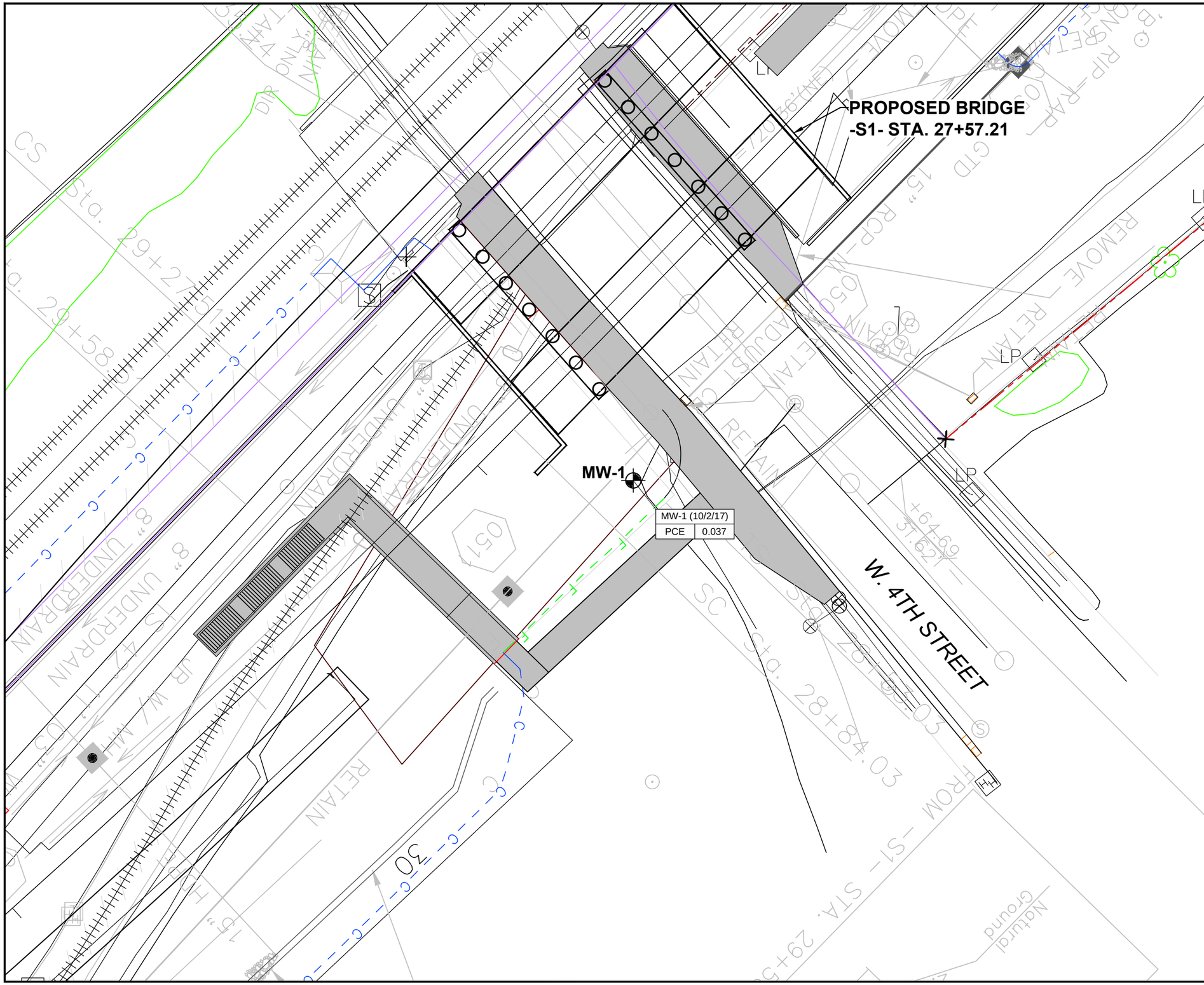
PROJECT

CHARLOTTE GATEWAY STATION
CHARLOTTE, MECKLENBURG COUNTY, NC

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12-4-17	REVISION NO. 0
JOB NO. ROW-515	FIGURE NO. 2

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-500s\ROW-515 P-5705B Charlotte GW\Report\Figures\Figures.dwg, FIG 2, 12/4/2017 3:02:24 PM, zbarlow



LEGEND

- RAILROAD TRACKS
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DRAINAGE PIPING
- PROPOSED CATCH BASIN
- MONITORING WELL

SAMPLE ID & DATE

MW-1 (10/2/17)	
PCE	0.037

CONSTITUENT

GROUNDWATER CONCENTRATION (mg/L)

N

APPROXIMATE

0 30 60

SCALE IN FEET

TITLE

W. 4TH STREET SITE MAP

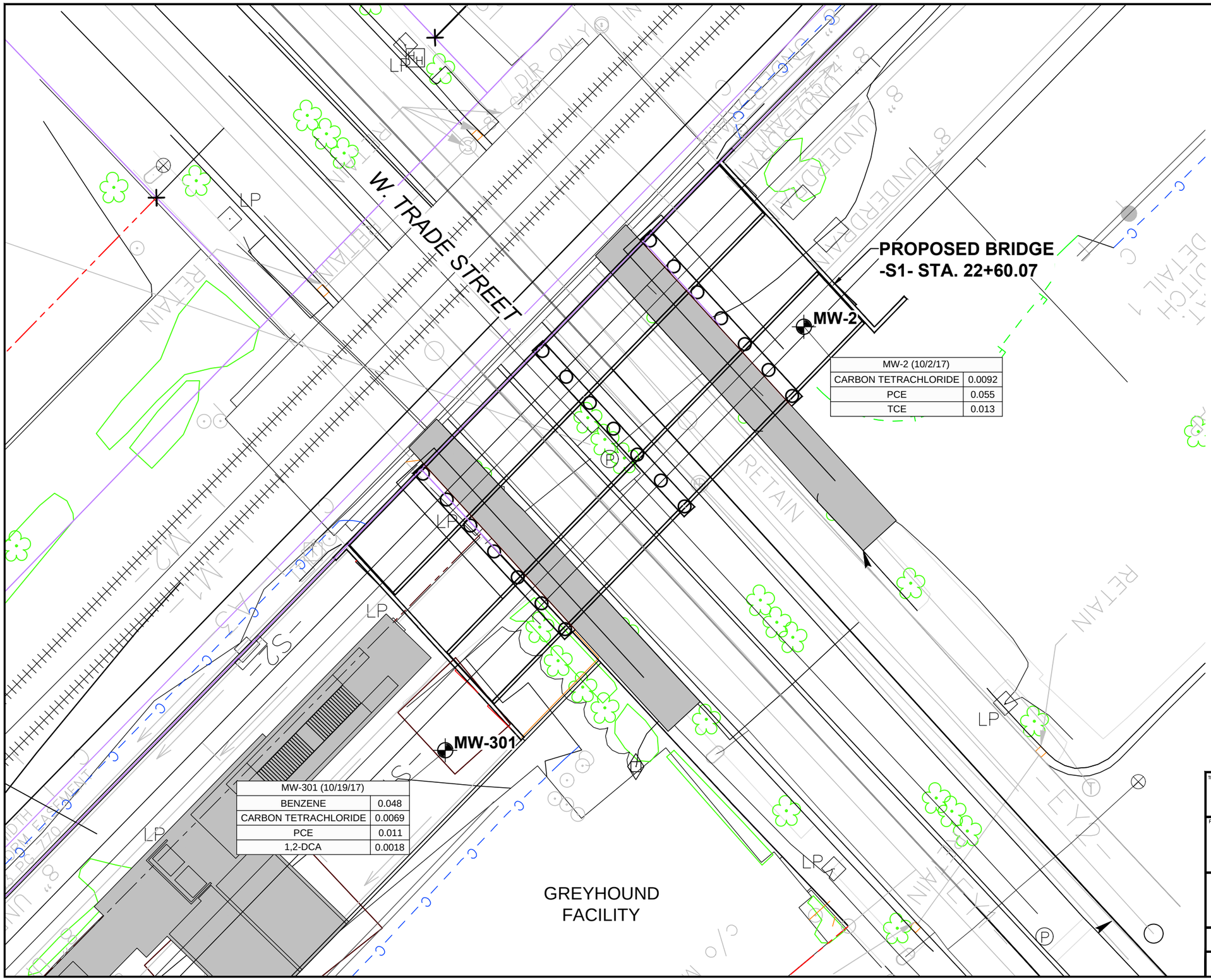
PROJECT

CHARLOTTE GATEWAY STATION
CHARLOTTE, MECKLENBURG COUNTY, NC

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12-4-17	REVISION NO. 0
JOB NO. ROW-515	FIGURE NO. 3

S:\AAA-Master Projects\NC DOT Right-of-Way - ROW\ROW-500s\ROW-515 P-5705B Charlotte GW\Report\Figures\Figures.dwg, FIG 3, 12/4/2017 3:02:30 PM, zbarlow



LEGEND

- RAILROAD TRACKS
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DRAINAGE PIPING
- PROPOSED CATCH BASIN
- MONITORING WELL

SAMPLE ID & DATE

MW-2 (10/2/17)	
CARBON TETRACHLORIDE	0.0092
PCE	0.055
TCE	0.013

CONSTITUENT — GROUNDWATER CONCENTRATION (mg/L)

N

APPROXIMATE
0 30 60
SCALE IN FEET

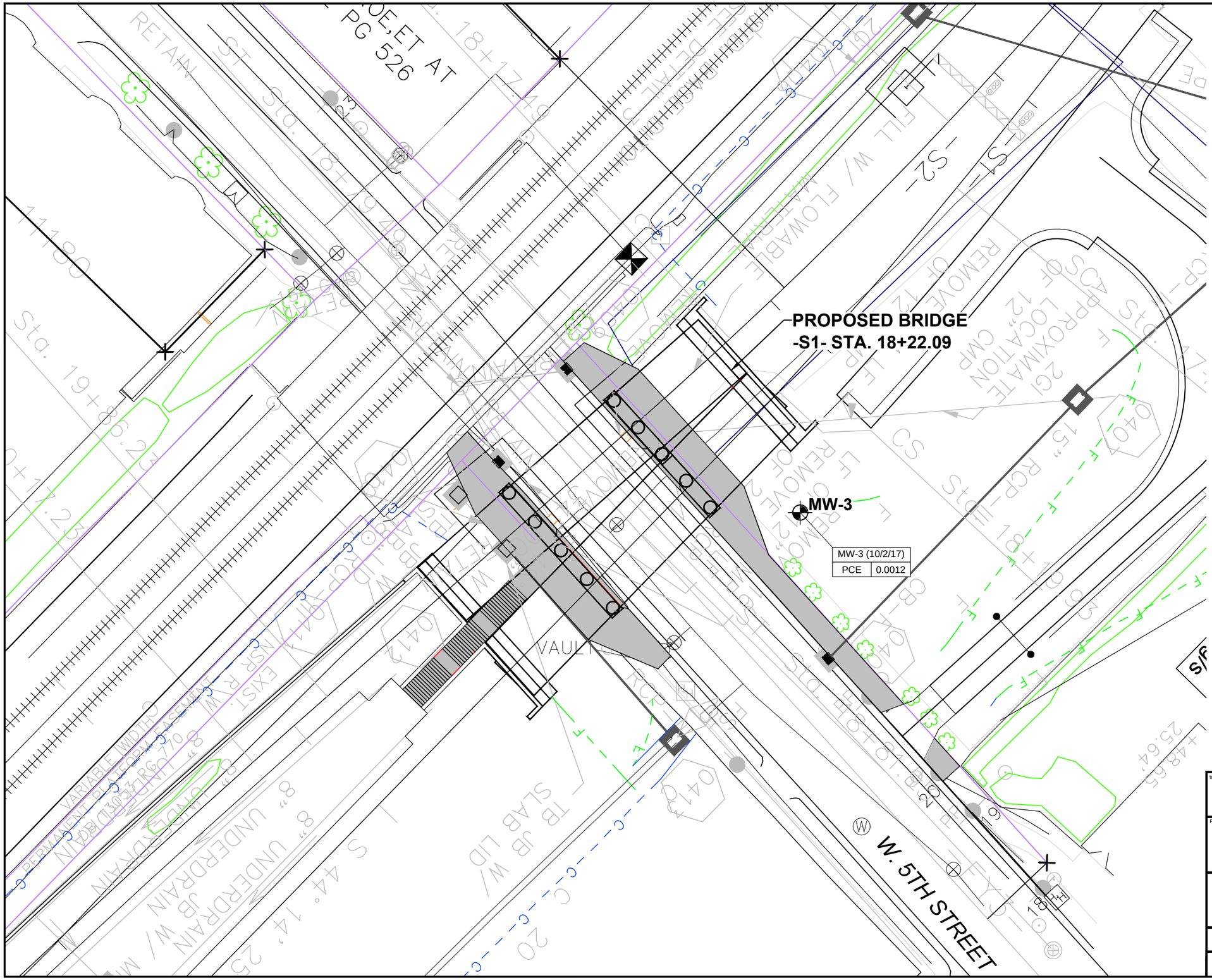
TITLE
W. TRADE STREET SITE MAP

PROJECT
CHARLOTTE GATEWAY STATION
CHARLOTTE, MECKLENBURG COUNTY, NC

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12-4-17	REVISION NO. 0
JOB NO. ROW-515	FIGURE NO. 4

S:\AAA-Master Projects\NC DOT Right-of-Way - ROW\ROW-500s\ROW-515 P-5705B Charlotte GW\Report\Figures\Figures.dwg, FIG 4, 12/4/2017 3:02:35 PM, zbarlow



LEGEND

- RAILROAD TRACKS
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DRAINAGE PIPING
- PROPOSED CATCH BASIN
- MONITORING WELL

MW-3 (10/2/17)	
PCE	0.0012

SAMPLE ID & DATE

CONSTITUENT

GROUNDWATER CONCENTRATION (mg/L)

N

APPROXIMATE

0 30 60

SCALE IN FEET

TITLE

W. 5TH STREET SITE MAP

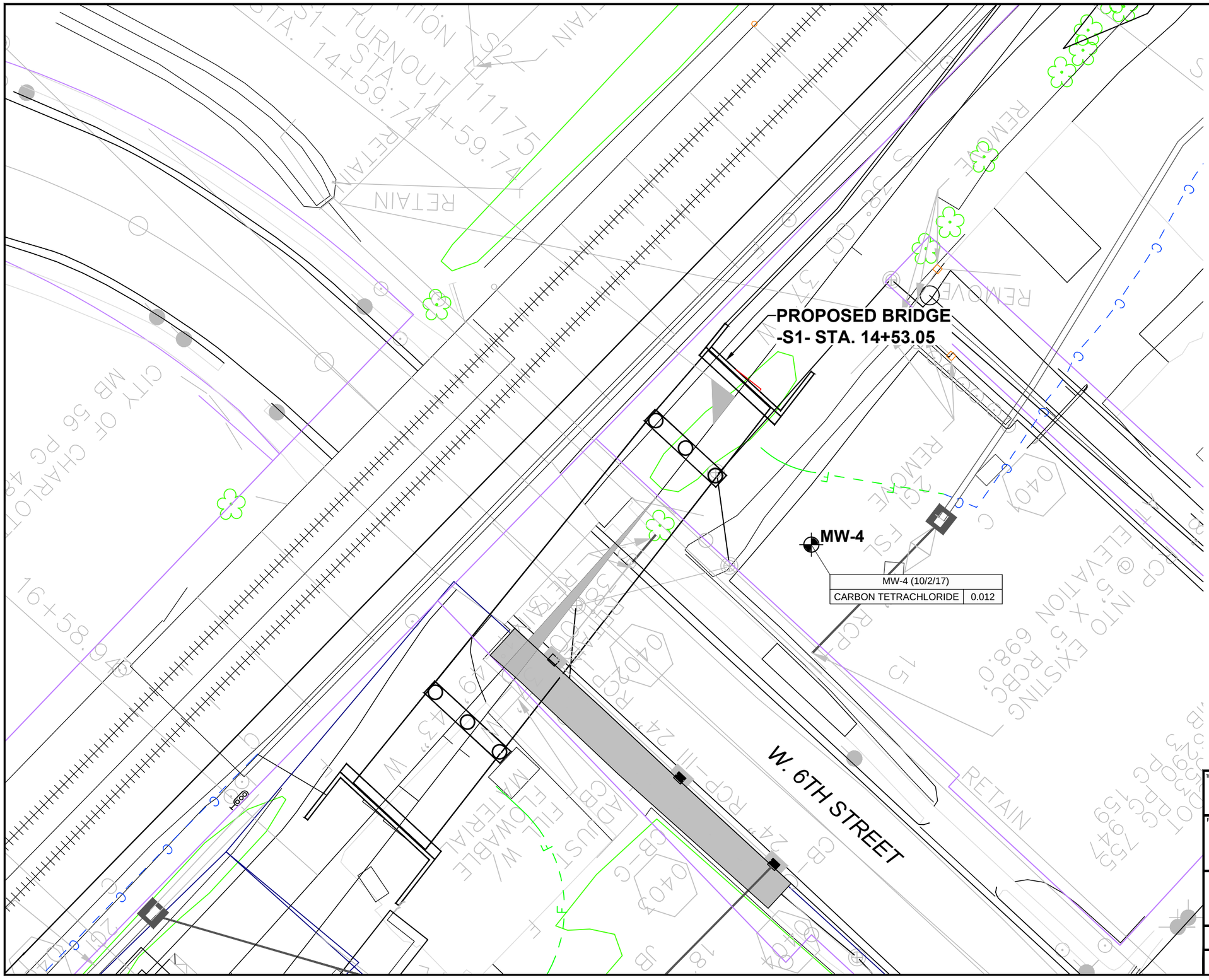
PROJECT

CHARLOTTE GATEWAY STATION
CHARLOTTE, MECKLENBURG COUNTY, NC

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12-4-17	REVISION NO. 0
JOB NO. ROW-515	FIGURE NO. 5

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-500s\ROW-515 P-5705B Charlotte GW\Report\Figures\Figures.dwg, FIG 5, 12/4/2017 3:02:41 PM, zbarlow



LEGEND

- RAILROAD TRACKS
- PROPOSED CUT LINE
- PROPOSED FILL LINE
- PROPOSED DRAINAGE PIPING
- PROPOSED CATCH BASIN
- MONITORING WELL

SAMPLE ID & DATE

MW-4 (10/2/17)	
CARBON TETRACHLORIDE	0.012

CONSTITUENT

GROUNDWATER CONCENTRATION (mg/L)

APPROXIMATE
0 30 60
SCALE IN FEET

TITLE
W. 6TH STREET SITE MAP

PROJECT
CHARLOTTE GATEWAY STATION
CHARLOTTE, MECKLENBURG COUNTY, NC

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)
License # C-1269 / #C-245 Geology

DATE: 12-4-17	REVISION NO. 0
JOB NO. ROW-515	FIGURE NO. 6

S:\AAA-Master Projects\NC DOT Right-of-Way -ROW\ROW-500s\ROW-515 P-5705B Charlotte GW\Report\Figures\Figures.dwg, FIG 6, 12/4/2017 3:02:47 PM, zbarlow

Appendix A

Subsurface Investigation Permit

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894
http://groundwater.charmeck.org

Bill To: **Agent**

Permit Issuance Date: 9/14/2017

Permit Number: 70002455

SUBSURFACE INVESTIGATION PERMIT

I. Well Owner Information

Name: NC DOT
Attn: Gordon Box
Phone #: 919-707-6859
Address 1: 1020 Birch Ridge Dr.
Address 2:
City: Raleigh State: NC Zip: 27610

II. Agent Information *(if applicable)*

Name: Hart & Hickman, PC
Attn: David Graham
Phone #: 704-586-0007
Address 1: 2923 South Tryon Street Suite 100
Address 2:
City: Charlotte State: NC Zip: 28203

III. Site Information

Site Name; DOT Parcel 14
Parcel ID Number: 07805601
Address: 600 W TRADE ST
City: CHARLOTTE State: NC Zip: 28202

General Conditions of This Permit:

- This permit shall be VALID for a period not to exceed twelve (12) months from the date of issuance.
- This permit is VALID for the site specified above and must be on-site during the course of the investigation and made available to a Department representative upon request.
- A North Carolina Certified Well Contrator must perform any well contractor activities associated with this permit.
- All wells shall be constructed and abandoned to the standards of Chapter VI, Section V and Section VI of the Mecklenburg County Groundwater Well Regulations.
- All temporary wells, including those installed using Direct Push Technology, must be abandoned to the standards of Chapter VI, Section VI of the Mecklenburg County Groundwater Well Regulations.
- Registration information for all wells must be submitted to the Department within thirty (30) days of well completion. If water samples are collected, it is recommended that the well NOT be registered until the analytical results are received.

Appendix B

Well Construction Records and Boring Logs

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

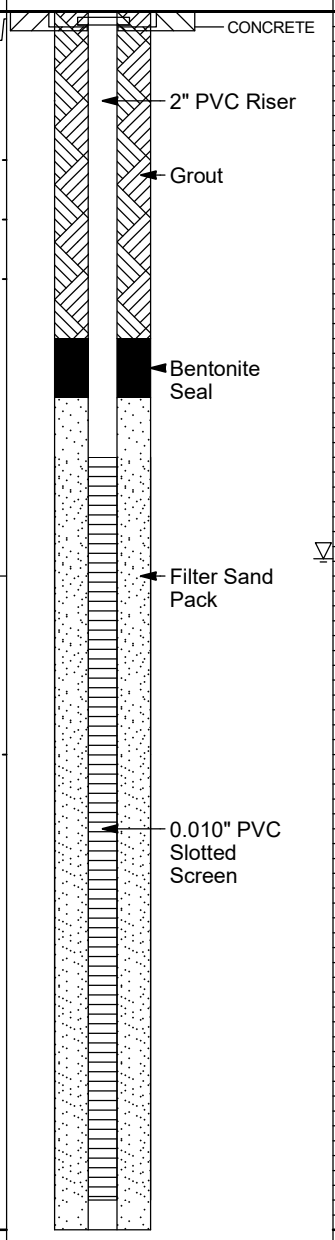
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER MW-1

PROJECT: Charlotte Gateway Station
JOB NUMBER: ROW-515
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0			0.0	3.8		GRAVEL with dry loose fine brown silty sand
			0.0	4.7		Moist, medium, orange brown clayey SILT
5			0.0	2.6		Moist, medium, orange tan clayey SILT with black mottling
			0.0	3.1		Moist, stiff, tan clayey SILT
10			0.0	3.6		Very moist, very stiff, tan brown clayey SILT with black mottling
			0.0	3.4		
15			0.0	3.8		
			0.0	1.8		
20			0.0	3.6		Wet, dense, fine brown silty SAND with trace gray clay and saprolite
			0.0	1.9		
25			0.0	3.2		Saturated, very dense, gray brown silty SAND with trace clay
			0.0	6.5		
30			0.0	2.3		
			0.0	3.7		
35			0.0	4.1		
			0.0	4.4		
40			0.0	3.7		

Bottom of borehole at 41.0 feet.



DRILLING CONTRACTOR: SAEDACCO
DRILL RIG/ METHOD: Gus Pech / HA/HSA
SAMPLING METHOD: Split Spoon/Auger Cuttings
LOGGED BY: KJW
DRAWN BY: KJW

BORING STARTED: 9/25/17
BORING COMPLETED: 9/25/17
TOTAL DEPTH: 41 ft.
TOP OF CASING ELEV:
DEPTH TO WATER: 18.41 ft.

Remarks:
Installed monitoring well screened from 15'-40' bgs.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
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: 9-25-2017 **Well ID#** MW-1

5a. Well Location:

NC DOT Parcel 3B
Facility/Owner Name

Facility ID# (if applicable)

604 W. 4th St., CHARLOTTE, NC, 28202
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)

35.2304732 N -80.8492916 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: 40' **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19' **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 8.25" **(in.)**

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	15' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15' ft.	40' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	11' ft.	PORTLAND	TREMMIED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13' ft.	40' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	40' ft.	SILTY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 11'TO 13'.

22. Certification:

Richy L Lemire
Signature of Certified Well Contractor

10/3/2017
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

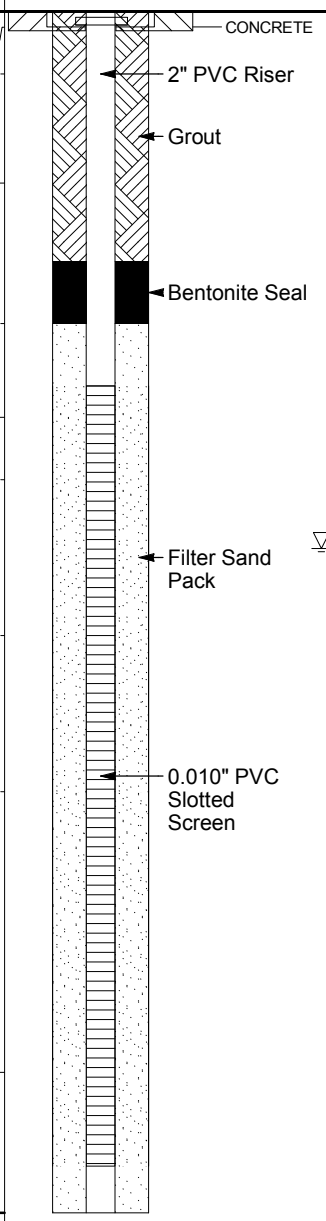
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER MW-2

PROJECT: Charlotte Gateway Station
JOB NUMBER: ROW-515
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0			0.0	5.9		Dry loose GRAVEL
						Dry, medium, brown dark brown sandy SILT
			0.0	5.9		Moist, stiff, orange brown clayey SILT
5			0.0	4.5		
						Moist, stiff, tan silty CLAY
			0.0	6.7		
10			0.0	30.5		Moist, very stiff, tan brown silty CLAY with gray partially weathered rock
			0.0	5.1		
						Very moist, medium, tan brown clayey SILT with trace sand
15			0.0	3.6		Wet, medium, black brown and white sandy SILT with saprolite
			0.0	2.8		
20			0.0	2.1		Wet, very stiff, brown gray clayey SILT with black mottling
			0.0	2.9		
25			0.0	0.8		Wet, hard, brown gray clayey SILT with black mottling
			0.0	0.8		
30			0.0	0.9		
			0.0	0.8		
35			0.0	2.6		Saturated, very dense, fine to medium white and brown silty SAND, with black mottling and saprolite
			0.0	3		
40						Bottom of borehole at 38.5 feet.

BORING DIAGRAM



DRILLING CONTRACTOR: SAEDACCO
DRILL RIG/ METHOD: Gus Pech / HA/HSA
SAMPLING METHOD: Split Spoon/Auger Cuttings
LOGGED BY: KJW
DRAWN BY: KJW

BORING STARTED: 9/27/17
BORING COMPLETED: 9/27/17
TOTAL DEPTH: 38.5 ft.
TOP OF CASING ELEV:
DEPTH TO WATER: 17.21 ft.

Remarks:
Installed monitoring well screened from 12'-37' bgs.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
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: 9-27-2017 **Well ID#** MW-2

5a. Well Location:

NC DOT Parcel 14
Facility/Owner Name
Facility ID# (if applicable)

600 W Trade St, CHARLOTTE, NC, 28202
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)

35.2317379 N -80.8480276 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: 37' **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19' **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 8.25" **(in.)**

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	12' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
12' ft.	37' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	8' ft.	PORTLAND	TREMMIED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10' ft.	37' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	37 ft.	SILTY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 8' TO 10'.

22. Certification:

Richy L Lemire
Signature of Certified Well Contractor

10/3/2017
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

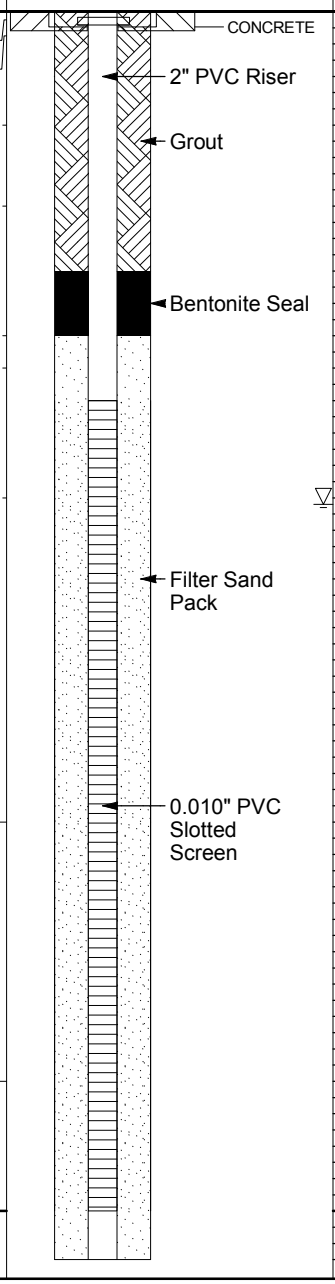
2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER MW-3

PROJECT: Charlotte Gateway Station
JOB NUMBER: ROW-515
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0						ASPHALT
			0.0	1.5		GRAVEL
			0.0	4.9		Slightly moist, medium, tan brown clayey SILT
5			0.0	3.6		Moist, stiff, tan brown clayey SILT with black mottling
			0.0	5.1		Very moist, very stiff, tan brown clayey SILT with black mottling
10			0.0	3.2		Very moist, hard, tan brown clayey SILT with black mottling
			0.0	1.4		Very moist, very stiff, gray tan brown, clayey SILT, with black mottling
15			0.0	0.1		Wet, hard, tan brown sandy SILT trace clay with black mottling
			0.0	2.6		
20			0.0	3.1		
			0.0	3.3		
25			0.0	3.2		PARTIALLY WEATHERED ROCK, with saturated gray brown silty clay
			0.0	1.2		
30			0.0	2.5		
			0.0	2.1		
			0.0	1.6		Saturated, hard, gray brown silty CLAY
35			0.0	1.6		
						Bottom of borehole at 37.0 feet.



DRILLING CONTRACTOR: SAEDACCO
DRILL RIG/ METHOD: Gus Pech/ HA/HSA
SAMPLING METHOD: Split Spoon/Auger Cuttings
LOGGED BY: KJW
DRAWN BY: KJW

BORING STARTED: 9/26/17
BORING COMPLETED: 9/26/17
TOTAL DEPTH: 37 ft.
TOP OF CASING ELEV:
DEPTH TO WATER: 15.2 ft.

Remarks:
Installed monitoring well screened from 12'-37' bgs.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
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: 9-26-2017 **Well ID#** MW-3

5a. Well Location:

NC DOT Parcel 12
Facility/Owner Name

Facility ID# (if applicable)

W. 5th St., CHARLOTTE, NC, 28202
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)

35.2325444 N -80.8469554 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: 37' **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 19' **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 8.25" **(in.)**

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	12' ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
12' ft.	37' ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	8' ft.	PORTLAND	TREMMIED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10' ft.	37' ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	37 ft.	SILTY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 8' TO 10'.

22. Certification:

Richy L Lemire
Signature of Certified Well Contractor

10/3/2017
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

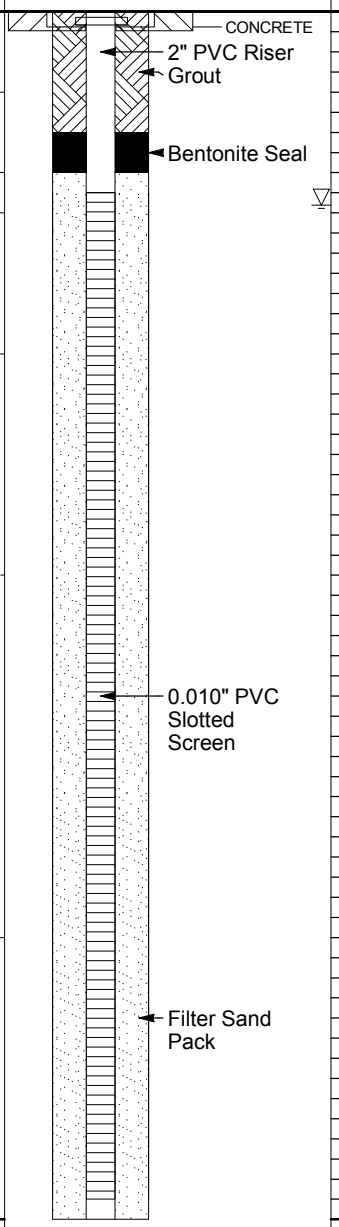
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER MW-4

PROJECT: Charlotte Gateway Station
JOB NUMBER: ROW-515
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0			0.0	8.6		Poorly graded GRAVEL with dry black brown medium sandy silt
			0.0	3.7		Moist, medium, red brown silty CLAY
						Very moist, medium, red brown sandy SILT
5			0.0	1.4		Wet, loose, red brown fine silty SAND trace clay
			0.0	1.1		
						Wet, medium, gray brown silty CLAY with trace sand
10			0.0	4.8		
			0.0	2.7		
						Saturated, hard, gray brown silty CLAY with dense sand
15			0.0	3.8		
			0.0	3.1		
20			0.0	2.6		
			0.0	3.1		PARTIALLY WEATHERED ROCK
25			0.0	2.8		
			0.0	2.4		
			0.0	3.1		
30						Bottom of borehole at 30.0 feet.

BORING DIAGRAM



DRILLING CONTRACTOR: SAEDACCO
DRILL RIG/ METHOD: Gus Pech / HA/HSA
SAMPLING METHOD: Split Spoon/Auger Cuttings
LOGGED BY: KJW
DRAWN BY: KJW

BORING STARTED: 9/26/17
BORING COMPLETED: 9/26/17
TOTAL DEPTH: 30 ft.
TOP OF CASING ELEV:
DEPTH TO WATER: 4.81 ft.

Remarks:
Installed monitoring well screened from 4.5'-29.5' bgs.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Rich Lemire
Well Contractor Name

2593A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: _____
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: 9-26-2017 **Well ID#** MW-4

5a. Well Location:

NC DOT Parcel 24A
Facility/Owner Name

Facility ID# (if applicable)

Corner of 6th St. and Smith St., CHARLOTTE, NC, 28202
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)

35.2333046 N -80.8461583 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: 29.5 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 4.8 **(ft.)**
If water level is above casing, use "+"

11. Borehole diameter: 8.25" **(in.)**

12. Well construction method: AUGERS
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	4.5 ft.	2" in.	SCH40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4.5 ft.	29.5 ft.	2" in.	.010	SCH40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3' ft.	PORTLAND	TREMMIED
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
4 ft.	29.5 ft.	SAND	#2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	29.5 ft.	SILTY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE FROM 3' TO 4'.

22. Certification:

Signature of Certified Well Contractor — Date: 10/3/2017

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.

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

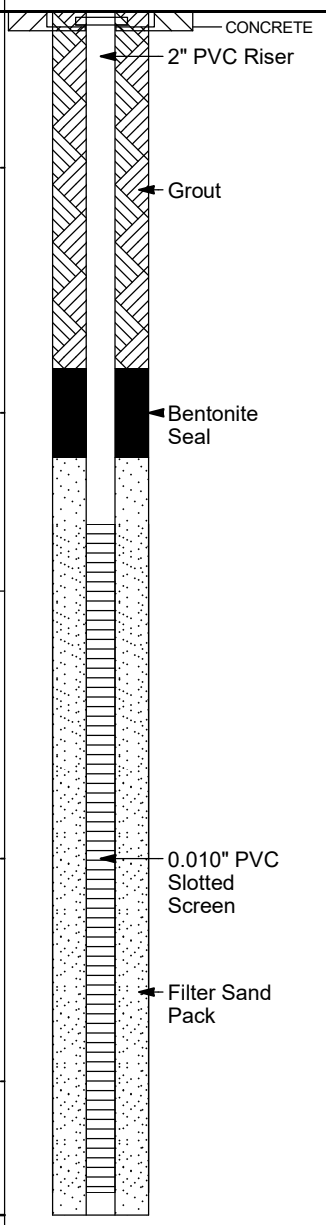
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

BORING NUMBER MW-5

PROJECT: Charlotte Gateway Station
JOB NUMBER: ROW-515
LOCATION: Charlotte, NC

DEPTH (ft)	RECOVERY (%)	SAMPLE TYPE NUMBER	OVA (ppm) BKG.	OVA (ppm) SAMP.	LITHOLOGY	MATERIAL DESCRIPTION
0			0.0	0.4		Moist, medium firm, black, sandy SILT with gravel and with coal ash
			0.0	0.1		
						Moist, medium firm, brown, clayey SILT
5			0.0	1.4		
			0.0	2.9		
						Moist, medium firm, dark brown, clayey SILT
10			0.0	2.1		
			0.0	3.8		
						Moist, medium firm, reddish brown, silty CLAY
15			0.0	4.6		
			0.0	5		
						Very moist, medium firm, reddish brown, silty CLAY
20			0.0	5.2		
						Very moist, medium firm, reddish brown, silty CLAY with trace sand
25						
						Bottom of borehole at 27.0 feet.

BORING DIAGRAM



DRILLING CONTRACTOR: SAEDACCO
DRILL RIG/ METHOD: D-50 Turbo / HA/HSA
SAMPLING METHOD: Split Spoon/Auger Cuttings
LOGGED BY: RHS
DRAWN BY: RHS

BORING STARTED: 10/18/17
BORING COMPLETED: 10/18/17
TOTAL DEPTH: 27 ft.
TOP OF CASING ELEV:
DEPTH TO WATER:

Remarks:
Installed monitoring well screened from 12'-27' bgs

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Brian Ewing
Well Contractor Name

4240-B
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: 10-18-17 **Well ID#** MW-5

5a. Well Location:

NC DOT Parcel 25A
Facility/Owner Name

Facility ID# (if applicable)

North of W. Martin Luther King Jr. Blvd., Charlotte, NC, 28202
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)

35.2279278 N -80.8526114 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: 27 **(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: 8 **(in.)**

12. Well construction method: auger
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	12 ft.	2" in.	SCH-40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
12 ft.	27 ft.	2 in.	.001	sch 40	pvc
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	8 ft.	portland	poured
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10 ft.	27 ft.	filter sand	# 2
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	10 ft.	gravel silt clay
10 ft.	27 ft.	mosit clay/rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

bentonite seal from 8' to 10'

22. Certification:

Brian Ewing
Signature of Certified Well Contractor

10/18/2017
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:
Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Appendix C

Groundwater Sampling Records

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: ROW-SCS

Well ID: MW 1

Well Location: 4th Street

Facility Name: Charlotte Gateway Station

Date: 10/02/17

Top of Casing Elevation (ft msl): _____ Casing Material: PVC Volume of Water Per Well Volume: _____

Total Well Depth (ft): 40 Depth to Water (ft): 18.35 Well Diameter: 2"

Sampling Personnel: HJW

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 28.5 ft.

Weather Conditions: Sunny 70's NOTES: 13:35 Start purging after well

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1340	18.45		125ml/min	2.99	21.68	283	6.06	179.4	2.96
1345	18.45			2.52	21.63	282	6.04	134.2	4.32
1350	18.46			2.41	22.11	282	6.04	125.9	7.55
1355	18.45			2.34	22.31	282	6.05	122.1	8.86
1400	18.45			2.24	22.49	282	6.04	120.6	8.86

Other Sample Parameters: _____

Sampled at: 1405 Parameters taken with: YSI-556

Sample Delivered to: Prism Labs by KJW at 16:40 on 10/02/17

Field Filtration: (X) Yes ( ) No If yes, which sample parameters were field filtered: Dissolved RCRA Metals

Sample Parameter Containers (Types, Number of Containers, Preservatives): 250ml plastic non-pres. (pH, chloride, sulfate)
2x 250ml HNO_3 Plastic (RCRA Metals, Dissolved RCRA Metals) 3x40ml HCL VOAs (VOCs) 2x1L Amber Glass (SVOCs)

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: ROW-515

Well ID: MW-2

Well Location: Trade St.

Facility Name: Charlotte Gateway station

Date: 10/02/17

Top of Casing Elevation (ft msl): _____ Casing Material: PVC Volume of Water Per Well Volume: _____

Total Well Depth (ft): 37 Depth to Water (ft): 17.89 Well Diameter: 2"

Sampling Personnel: KW

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 27' ft.

Weather Conditions: 70's NOTES: Start Pumping @ 0930

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
0930	17.89	150 ml/min		3.39	20.51	413	5.67	127.5	136.6
0940	17.89			2.16	20.58	397	5.55	128.2	28.72
0945	17.89			1.88	20.60	393	5.64	125.6	27.24
0950	17.89			1.77	20.64	390	5.63	121.7	30.95
0955	17.89			1.62	20.76	388	5.61	123.4	34.41
1000	17.89			1.63	20.79	388	5.60	125.3	52.53
1010	17.89			1.54	20.89	386	5.60	129.1	46.05
1015	17.89			1.41	20.91	385	5.60	134.3	28.13
1020	17.89			1.38	21.01	384	5.62	138.8	17.79
1025	17.89			1.19	21.10	384	5.62	136.9	17.80
1030	17.89			1.07	21.10	382	5.60	140.0	24.40
1035	17.89			0.98	21.12	382	5.59	143.5	20.19

Other Sample Parameters: pH, chloride, sulfate, RCRA metals, ~~TCLP RCRA Metals~~, VOCs, SVOCs

Sampled at: 11:50 Parameters taken with: YSI-556

Sample Delivered to: Prism Labs by KW at 16:40 on 10/02/17

Field Filtration: (X) Yes ( ) No If yes, which sample parameters were field filtered: Dissolved RCRA Metals

Sample Parameter Containers (Types, Number of Containers, Preservatives): 250ml plastic no preservative for (pH chloride, sulfate) ~~Acid~~ 2x 250ml HNO_3 Plastic for (RCRA Metals, Dissolved RCRA Metals, 3x 40ml VOA HCL for (VOCs) 2x 1L Amber Glass for (SVOCs)

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: ROW-515

Well ID: MW-2 continued...

Well Location: Trade St.

Facility Name: Charlotte Gateway Station

Date: 10/02/17

Top of Casing Elevation (ft msl): _____ Casing Material: PVC Volume of Water Per Well Volume: _____

Total Well Depth (ft): 37 Depth to Water (ft): 17.89 Well Diameter: 2"

Sampling Personnel: KOW

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 27' ft.

Weather Conditions: 70's NOTES: Start Purging @ 0930

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1040	17.89		150 ml/min	1.01	21.33	382	5.58	144.5	30.25
1045	17.89			1.03	21.26	382	5.58	146.3	34.48
1050	17.89			0.96	21.23	382	5.58	148.1	19.88
1055	17.89			0.86	21.07	380	5.56	149.2	13.37
1100	17.89			0.80	21.13	379	5.59	150.8	13.44
1105	17.89			0.73	21.25	378	5.59	151.4	12.75
1110	17.89			0.81	21.73	386	5.59	152.4	11.10
1115	17.89			0.85	21.71	380	5.59	155.3	11.36
1120	17.89			0.83	21.04	381	5.59	158.3	12.41
1125	17.89			0.86	21.60	381	5.58	160.9	11.33
1130	17.89			0.81	21.62	382	5.58	161.7	10.90
1135	17.89			0.84	21.63	382	5.58	163.2	10.35
Sample 1140	17.89			0.77	21.09	382	5.59	164.0	10.40 ~~[illegible]~~
1145	17.89			0.75	21.66	383	5.60	164.3	7.99

Other Sample Parameters: _____

Sampled at: 11:50 Parameters taken with: YSI 556

Sample Delivered to: Prism Lab by _____ at 16:40am 10/02/17

Field Filtration: (X) Yes ( ) No If yes, which sample parameters were field filtered: Dissolved RCRA Metals

Sample Parameter Containers (Types, Number of Containers, Preservatives): _____

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: ROW-515

Well ID: MW-3

Well Location: 8th Street

Facility Name: Charlotte Gateway Station

Date: 10/02/17

Top of Casing Elevation (ft msl): _____ Casing Material: PVC Volume of Water Per Well Volume: _____

Total Well Depth (ft): 37 Depth to Water (ft): 18.49 Well Diameter: 2"

Sampling Personnel: KJW

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 26 ft.

Weather Conditions: Mostly Sunny 70's NOTES: Begin purging @ 1450

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1455	18.72		125 ml/min	5.30	23.94	405	6.32	137.4	22.7
1500	18.75		↓	3.58	23.44	405	6.29	142.0	17.16
1505	18.76			3.46	23.17	406	6.28	141.3	13.21
1510	18.76			3.39	22.97	404	6.26	142.8	8.85
1515	18.77			3.41	22.89	403	6.28	143.8	9.55

Other Sample Parameters: _____

Sampled at: 1520 Parameters taken with: YSI - 556

Sample Delivered to: Prism Labs by KJW at 16:40 on 10/02/17.

Field Filtration: (X) Yes ( ) No If yes, which sample parameters were field filtered: RCRA Metals - Dissolved

Sample Parameter Containers (Types, Number of Containers, Preservatives): 250ml plastic - non pres. - (pH, chloride, sulfate)
2x 250ml HNO_3 Plastic (RCRA Metals, Dissolved RCRA Metals) 3x40ml HCL Vials (VOCs) 2x1L Amber Glass (SVOCs)

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: ROW-515

Well ID: MW-4

Well Location: 6th Street

Facility Name: Charlotte Gateway Station

Date: 10/02/17

Top of Casing Elevation (ft msl): _____ Casing Material: PVC Volume of Water Per Well Volume: _____

Total Well Depth (ft): 29.5 Depth to Water (ft): 5.51 Well Diameter: 2"

Sampling Personnel: KTW

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 20' ft.

Weather Conditions: Sunny 70's NOTES: 1230 - Purging start time

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1235	6.68		150 ml/min	1.16	23.45	600	6.37	108.0	19.03
1240	6.92		↓	0.80	23.78	597	6.37	105.5	10.67
1245	6.95			0.68	24.01	591	6.35	102.3	9.15
1250	6.96			0.67	24.06	590	6.33	96.1	8.65
1255	6.96			0.53	24.06	590	6.32	85.5	7.48

Other Sample Parameters: _____

Sampled at: 1300 Parameters taken with: YSI - 556

Sample Delivered to: Prism Labs by KTW at 16:40 on 10/02/17

Field Filtration: (X) Yes ( ) No If yes, which sample parameters were field filtered: Dissolved RCRA Metals

Sample Parameter Containers (Types, Number of Containers, Preservatives): 250ml plastic no pres. for (pH, chloride, sulfate)
2x 250ml HNO_3 Plastic (RCRA Metals / Dissolved RCRA Metals) 3x 40ml VOA HCL for (VOCs) 2x 1L Amber Glass for (SVOCs)

File:Low Flow Ground Water Sampling Record, Low-Flow Log

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: ROW-515

Well ID: MW-301

Well Location: Greyhound Station

Facility Name: Charlotte Gateway Station

Date: 10/19/17

Top of Casing Elevation (ft msl): _____ Casing Material: PVC Volume of Water Per Well Volume: _____

Total Well Depth (ft): 30 Depth to Water (ft): 19.88 Well Diameter: 2"

Sampling Personnel: KTW

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 25' ft.

Weather Conditions: Sunny 70's NOTES: 10:50 Begin purging

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
10:55	20.11		125ml/min	0.82	21.6	744	7.31	115.1	21.08
11:00	20.24			0.47	21.8	733	6.45	66.1	16.33
11:05	20.45			0.33	21.8	724	6.06	34.1	6.75
11:10	20.53			0.29	21.9	721	5.96	26.4	3.60
11:15	20.64			0.26	21.8	715	5.87	61.8	3.57
11:20	20.72			0.24	21.9	716	5.82	70.0	3.57
11:25	20.83			0.26	22.1	714	5.79	89.9	4.12

Other Sample Parameters: _____

Sampled at: 1130 Parameters taken with: YSI Pro

Sample Delivered to: Prism Labs by KTW at _____ on 10/19/17

Field Filtration: (X) Yes ( ) No If yes, which sample parameters were field filtered: Dissolved RCRA Metals

Sample Parameter Containers (Types, Number of Containers, Preservatives): 250ml plastic non-pres (pH, chloride, sulfate), 2x 250ml HNO3 Plastic (RCRA Metals Dissolved RCRA Metals), 3x 40ml HCL VOAs (VOCs), 2x1L Amber Glass (SVOCs)

Appendix D

Laboratory Analytical Reports

Case Narrative

10/11/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 10/02/2017
Prism Work Order: 7100022

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Cara C. Rusmisell For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
HT	Sample received and analyzed outside of the hold time.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
M	Matrix spike outside of the control limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/11/2017

Prism Work Order: 7100022

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1	7100022-01	Water	10/02/17	10/02/17
MW-2	7100022-02	Water	10/02/17	10/02/17
MW-3	7100022-03	Water	10/02/17	10/02/17
MW-4	7100022-04	Water	10/02/17	10/02/17

Samples were received in good condition at 2.3 degrees C unless otherwise noted.

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Summary of Detections

10/11/2017

Prism Work Order: 7100022

Prism ID	Client ID	Parameter	Method	Result		Units
7100022-01	MW-1	Chloride	*9056A	28		mg/L
7100022-01	MW-1	Sulfate	*9056A	30		mg/L
7100022-01	MW-1	Barium	*6010D	0.057		mg/L
7100022-01	MW-1	pH	*SM4500-H B	6.3	HT	pH Units
7100022-01	MW-1	Barium	*6010D	0.057		mg/L
7100022-01	MW-1	Chloroform	*8260B	9.5		ug/L
7100022-01	MW-1	Tetrachloroethylene	*8260B	37		ug/L
7100022-01	MW-1	Trichloroethylene	*8260B	1.8		ug/L
7100022-02	MW-2	Chloride	*9056A	45		mg/L
7100022-02	MW-2	Sulfate	*9056A	53		mg/L
7100022-02	MW-2	Barium	*6010D	0.081		mg/L
7100022-02	MW-2	pH	*SM4500-H B	5.9	HT	pH Units
7100022-02	MW-2	Barium	*6010D	0.083		mg/L
7100022-02	MW-2	Carbon Tetrachloride	*8260B	9.2		ug/L
7100022-02	MW-2	Chloroform	*8260B	11		ug/L
7100022-02	MW-2	cis-1,2-Dichloroethylene	*8260B	3.0		ug/L
7100022-02	MW-2	Methyl-tert-Butyl Ether	*8260B	0.52		ug/L
7100022-02	MW-2	Tetrachloroethylene	*8260B	55		ug/L
7100022-02	MW-2	Trichloroethylene	*8260B	13		ug/L
7100022-03	MW-3	Chloride	*9056A	64		mg/L
7100022-03	MW-3	Sulfate	*9056A	21		mg/L
7100022-03	MW-3	Barium	*6010D	0.030		mg/L
7100022-03	MW-3	pH	*SM4500-H B	6.4	HT	pH Units
7100022-03	MW-3	Barium	*6010D	0.030		mg/L
7100022-03	MW-3	Chloroform	*8260B	6.7		ug/L
7100022-03	MW-3	Tetrachloroethylene	*8260B	1.2		ug/L
7100022-04	MW-4	Chloride	*9056A	43		mg/L
7100022-04	MW-4	Sulfate	*9056A	61		mg/L
7100022-04	MW-4	Barium	*6010D	0.15		mg/L
7100022-04	MW-4	pH	*SM4500-H B	6.4	HT	pH Units
7100022-04	MW-4	Barium	*6010D	0.15		mg/L
7100022-04	MW-4	Carbon Tetrachloride	*8260B	12		ug/L
7100022-04	MW-4	Chloroform	*8260B	2.4		ug/L
7100022-04	MW-4	Isopropyl Ether	*8260B	5.8		ug/L

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**28**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 21:19**	**EGC**	**P7J0094**
Sulfate	**30**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 21:19**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:22	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:36	JAB	P7J0065
Barium	**0.057**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:36**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:36	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:36	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:36	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:36	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:36	JAB	P7J0065
General Chemistry Parameters									
pH	**6.3 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.96	1	*8270D	10/9/17 17:44	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.62	1	*8270D	10/9/17 17:44	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 17:44	JMV	P7J0137
Aniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 17:44	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	4.0	1	*8270D	10/9/17 17:44	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Phenol	BRL	ug/L	10	1.0	1	*8270D	10/9/17 17:44	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*87 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl				*84 %*		*44-119*
			2-Fluorophenol				*54 %*		*19-119*
			Nitrobenzene-d5				*82 %*		*44-120*
			Phenol-d5				*34 %*		*11-52*
			Terphenyl-d14				*109 %*		*50-134*
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:32	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 17:17	JAB	P7J0059
Barium	**0.057**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 17:17**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 17:17	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 17:17	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 17:17	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 17:17	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 17:17	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:25	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:25	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:25	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 19:25	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 19:25	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:25	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:25	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 19:25	KDM	P7J0072

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 19:25	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 19:25	KDM	P7J0072
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:25	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 19:25	KDM	P7J0072
Chloroform	**9.5**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 19:25**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:25	KDM	P7J0072
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/4/17 19:25	KDM	P7J0072
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:25	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 19:25	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 19:25	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:25	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 19:25	KDM	P7J0072
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:25	KDM	P7J0072
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:25	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/4/17 19:25	KDM	P7J0072
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 19:25	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 19:25	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:25	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 19:25	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 19:25	KDM	P7J0072
Tetrachloroethylene	**37**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/4/17 19:25**	**KDM**	**P7J0072**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:25	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 19:25	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 19:25	KDM	P7J0072
Trichloroethylene	**1.8**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**10/4/17 19:25**	**KDM**	**P7J0072**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:25	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 19:25	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 19:25	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*98 %*	*75-129*	
			Toluene-d8				*95 %*	*77-123*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**45**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 22:07**	**EGC**	**P7J0094**
Sulfate	**53**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 22:07**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:26	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:09	JAB	P7J0065
Barium	**0.081**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:09**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:09	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:09	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:09	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:09	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:09	JAB	P7J0065
General Chemistry Parameters									
pH	**5.9 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:07	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:07	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	10/9/17 18:07	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	10/9/17 18:07	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:07	JMV	P7J0137
Aniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:07	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:07	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	10/9/17 18:07	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.5	1	*8270D	10/9/17 18:07	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 18:07	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:07	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:07	JMV	P7J0137
Phenol	BRL	ug/L	10	0.98	1	*8270D	10/9/17 18:07	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*81 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			76 %		44-119	
			2-Fluorophenol			50 %		19-119	
			Nitrobenzene-d5			74 %		44-120	
			Phenol-d5			31 %		11-52	
			Terphenyl-d14			104 %		50-134	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:44	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 17:43	JAB	P7J0059
Barium	**0.083**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 17:43**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 17:43	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 17:43	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 17:43	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 17:43	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 17:43	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:51	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:51	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:51	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 19:51	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 19:51	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:51	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:51	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 19:51	KDM	P7J0072

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 19:51	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 19:51	KDM	P7J0072
Carbon Tetrachloride	**9.2**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:51	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 19:51	KDM	P7J0072
Chloroform	**11**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:51	KDM	P7J0072
cis-1,2-Dichloroethylene	**3.0**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:51	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 19:51	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 19:51	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:51	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 19:51	KDM	P7J0072
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:51	KDM	P7J0072
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:51	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl-tert-Butyl Ether	**0.52**	**ug/L**	**0.50**	**0.042**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 19:51	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 19:51	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:51	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 19:51	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 19:51	KDM	P7J0072
Tetrachloroethylene	**55**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:51	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 19:51	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 19:51	KDM	P7J0072
Trichloroethylene	**13**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:51	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 19:51	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 19:51	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*101 %*	*75-129*	
			Toluene-d8				*99 %*	*77-123*	

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**64**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 22:23**	**EGC**	**P7J0094**
Sulfate	**21**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 22:23**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:11	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:44	JAB	P7J0065
Barium	**0.030**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:44**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:44	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:44	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:44	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:44	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:44	JAB	P7J0065
General Chemistry Parameters									
pH	**6.4 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:29	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:29	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	10/9/17 18:29	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	10/9/17 18:29	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:29	JMV	P7J0137
Aniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:29	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:29	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	10/9/17 18:29	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.5	1	*8270D	10/9/17 18:29	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 18:29	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:29	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:29	JMV	P7J0137
Phenol	BRL	ug/L	10	0.98	1	*8270D	10/9/17 18:29	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*101 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			97 %		44-119	
			2-Fluorophenol			62 %		19-119	
			Nitrobenzene-d5			92 %		44-120	
			Phenol-d5			38 %		11-52	
			Terphenyl-d14			119 %		50-134	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:48	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 17:52	JAB	P7J0059
Barium	**0.030**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 17:52**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 17:52	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 17:52	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 17:52	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 17:52	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 17:52	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:16	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:16	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:16	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 20:16	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 20:16	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:16	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:16	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 20:16	KDM	P7J0072

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 20:16	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 20:16	KDM	P7J0072
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:16	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 20:16	KDM	P7J0072
Chloroform	**6.7**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 20:16**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:16	KDM	P7J0072
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/4/17 20:16	KDM	P7J0072
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:16	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 20:16	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 20:16	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:16	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 20:16	KDM	P7J0072
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:16	KDM	P7J0072
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:16	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/4/17 20:16	KDM	P7J0072
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 20:16	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 20:16	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:16	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 20:16	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 20:16	KDM	P7J0072
Tetrachloroethylene	**1.2**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/4/17 20:16**	**KDM**	**P7J0072**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:16	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 20:16	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 20:16	KDM	P7J0072
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/4/17 20:16	KDM	P7J0072
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:16	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 20:16	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 20:16	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*101 %*	*75-129*	
			Toluene-d8				*100 %*	*77-123*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**43**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 22:39**	**EGC**	**P7J0094**
Sulfate	**61**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 22:39**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:30	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:53	JAB	P7J0065
Barium	**0.15**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:53**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:53	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:53	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:53	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:53	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:53	JAB	P7J0065
General Chemistry Parameters									
pH	**6.4 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	11	1.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	11	2.0	1	*8270D	10/9/17 18:52	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	11	1.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	11	1.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	11	3.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	11	2.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	11	1.2	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	11	2.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	11	2.0	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Methylphenol	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	11	1.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	11	1.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	11	2.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	11	0.98	1	*8270D	10/9/17 18:52	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	11	0.63	1	*8270D	10/9/17 18:52	JMV	P7J0137
Acenaphthene	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
Acenaphthylene	BRL	ug/L	11	2.1	1	*8270D	10/9/17 18:52	JMV	P7J0137
Aniline	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Anthracene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Azobenzene	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	11	1.2	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzoic Acid	BRL	ug/L	110	4.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	11	2.2	1	*8270D	10/9/17 18:52	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	11	2.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	2.1	1	*8270D	10/9/17 18:52	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Chrysene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	11	1.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
Dibenzofuran	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	11	3.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Fluoranthene	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Fluorene	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	11	2.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachloroethane	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	4.1	1	*8270D	10/9/17 18:52	JMV	P7J0137
Isophorone	BRL	ug/L	11	2.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
Naphthalene	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
Nitrobenzene	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	11	2.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	11	1.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
Phenanthrene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Phenol	BRL	ug/L	11	1.0	1	*8270D	10/9/17 18:52	JMV	P7J0137
Pyrene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*94 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl				*81 %*	*44-119*	
			2-Fluorophenol				*52 %*	*19-119*	
			Nitrobenzene-d5				*73 %*	*44-120*	
			Phenol-d5				*34 %*	*11-52*	
			Terphenyl-d14				*114 %*	*50-134*	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:51	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 18:01	JAB	P7J0059
Barium	**0.15**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 18:01**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 18:01	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 18:01	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 18:01	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 18:01	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 18:01	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:42	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:42	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:42	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 20:42	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 20:42	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:42	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:42	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 20:42	KDM	P7J0072

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 20:42	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 20:42	KDM	P7J0072
Carbon Tetrachloride	**12**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/4/17 20:42**	**KDM**	**P7J0072**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:42	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 20:42	KDM	P7J0072
Chloroform	**2.4**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 20:42**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:42	KDM	P7J0072
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/4/17 20:42	KDM	P7J0072
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:42	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 20:42	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 20:42	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:42	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 20:42	KDM	P7J0072
Isopropyl Ether	**5.8**	**ug/L**	**0.50**	**0.050**	**1**	***8260B**	**10/4/17 20:42**	**KDM**	**P7J0072**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:42	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/4/17 20:42	KDM	P7J0072
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 20:42	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 20:42	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:42	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 20:42	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 20:42	KDM	P7J0072
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	10/4/17 20:42	KDM	P7J0072
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:42	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 20:42	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 20:42	KDM	P7J0072
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/4/17 20:42	KDM	P7J0072
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:42	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 20:42	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 20:42	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*102 %*	*75-129*	
			Toluene-d8				*98 %*	*77-123*	

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
Blank (P7J0072-BLK1)				Prepared & Analyzed: 10/04/17						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
Blank (P7J0072-BLK1)				Prepared & Analyzed: 10/04/17						
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.6*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*50.4*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.00*		*99*	*77-123*			
LCS (P7J0072-BS1)				Prepared & Analyzed: 10/04/17						
1,1,1,2-Tetrachloroethane	17.6	0.50	ug/L	20.00		88	79-134			
1,1,1-Trichloroethane	18.2	0.50	ug/L	20.00		91	75-136			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	62-127			
1,1,2-Trichloroethane	19.4	0.50	ug/L	20.00		97	70-140			
1,1-Dichloroethane	20.0	0.50	ug/L	20.00		100	78-130			
1,1-Dichloroethylene	18.3	0.50	ug/L	20.00		92	70-154			
1,1-Dichloropropylene	17.4	0.50	ug/L	20.00		87	71-136			
1,2,3-Trichlorobenzene	18.9	2.0	ug/L	20.00		95	58-144			
1,2,3-Trichloropropane	18.9	1.0	ug/L	20.00		95	71-127			
1,2,4-Trichlorobenzene	19.2	1.0	ug/L	20.00		96	66-139			
1,2,4-Trimethylbenzene	19.9	0.50	ug/L	20.00		100	75-133			
1,2-Dibromo-3-chloropropane	17.8	2.0	ug/L	20.00		89	63-134			
1,2-Dibromoethane	21.0	0.50	ug/L	20.00		105	77-135			
1,2-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	78-128			
1,2-Dichloroethane	19.7	0.50	ug/L	20.00		99	68-131			
1,2-Dichloropropane	19.5	0.50	ug/L	20.00		97	77-130			
1,3,5-Trimethylbenzene	19.7	0.50	ug/L	20.00		98	75-131			
1,3-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	77-125			
1,3-Dichloropropane	18.6	0.50	ug/L	20.00		93	76-132			

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Hart & Hickman (Charlotte)
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2923 South Tryon St. Ste 100
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
LCS (P7J0072-BS1)				Prepared & Analyzed: 10/04/17						
1,4-Dichlorobenzene	18.4	0.50	ug/L	20.00		92	75-126			
2,2-Dichloropropane	20.8	2.0	ug/L	20.00		104	29-149			
2-Chlorotoluene	19.6	0.50	ug/L	20.00		98	74-126			
4-Chlorotoluene	19.4	0.50	ug/L	20.00		97	78-129			
4-Isopropyltoluene	19.4	0.50	ug/L	20.00		97	69-132			
Acetone	38.4	5.0	ug/L	40.00		96	40-166			
Acrolein	37.6	20	ug/L	40.00		94	70-130			
Acrylonitrile	40.3	20	ug/L	40.00		101	81-127			
Benzene	19.9	0.50	ug/L	20.00		99	77-128			
Bromobenzene	19.5	0.50	ug/L	20.00		98	78-129			
Bromochloromethane	19.9	0.50	ug/L	20.00		100	78-135			
Bromodichloromethane	21.1	0.50	ug/L	20.00		105	76-138			
Bromoform	16.4	1.0	ug/L	20.00		82	71-135			
Bromomethane	18.7	1.0	ug/L	20.00		93	41-168			
Carbon disulfide	19.7	5.0	ug/L	20.00		98	59-135			
Carbon Tetrachloride	17.9	0.50	ug/L	20.00		89	72-142			
Chlorobenzene	19.5	0.50	ug/L	20.00		98	78-119			
Chloroethane	17.4	0.50	ug/L	20.00		87	57-142			
Chloroform	20.1	0.50	ug/L	20.00		100	77-130			
Chloromethane	18.0	0.50	ug/L	20.00		90	47-145			
cis-1,2-Dichloroethylene	20.0	0.50	ug/L	20.00		100	76-141			
cis-1,3-Dichloropropylene	18.7	0.50	ug/L	20.00		93	65-140			
Dibromochloromethane	17.6	0.50	ug/L	20.00		88	75-134			
Dibromomethane	19.6	0.50	ug/L	20.00		98	76-138			
Dichlorodifluoromethane	16.0	1.0	ug/L	20.00		80	28-163			
Ethylbenzene	19.5	0.50	ug/L	20.00		97	80-127			
Hexachlorobutadiene	19.1	2.0	ug/L	20.00		95	61-134			
Isopropyl Ether	19.7	0.50	ug/L	20.00		99	60-154			
Isopropylbenzene (Cumene)	19.2	0.50	ug/L	20.00		96	70-130			
m,p-Xylenes	40.2	1.0	ug/L	40.00		101	77-133			
Methyl Butyl Ketone (2-Hexanone)	21.2	5.0	ug/L	20.00		106	64-137			
Methyl Ethyl Ketone (2-Butanone)	19.9	5.0	ug/L	20.00		100	71-134			
Methyl Isobutyl Ketone	21.4	5.0	ug/L	20.00		107	69-134			
Methylene Chloride	18.2	1.0	ug/L	20.00		91	73-131			
Methyl-tert-Butyl Ether	20.6	0.50	ug/L	20.00		103	68-135			
Naphthalene	19.6	1.0	ug/L	20.00		98	64-136			
n-Butylbenzene	20.1	1.0	ug/L	20.00		101	68-134			
n-Propylbenzene	19.2	0.50	ug/L	20.00		96	72-132			
o-Xylene	19.5	0.50	ug/L	20.00		97	78-128			
sec-Butylbenzene	19.0	0.50	ug/L	20.00		95	71-131			
Styrene	18.7	0.50	ug/L	20.00		94	78-129			
tert-Butylbenzene	18.5	0.50	ug/L	20.00		92	70-132			
Tetrachloroethylene	18.3	0.50	ug/L	20.00		92	80-129			
Toluene	20.0	0.50	ug/L	20.00		100	76-131			
trans-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		103	76-135			
trans-1,3-Dichloropropylene	18.0	0.50	ug/L	20.00		90	67-140			

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Hart & Hickman (Charlotte)
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
LCS (P7J0072-BS1)				Prepared & Analyzed: 10/04/17						
Trichloroethylene	19.3	0.50	ug/L	20.00		96	77-133			
Trichlorofluoromethane	17.8	0.50	ug/L	20.00		89	62-148			
Vinyl acetate	19.3	2.0	ug/L	20.00		97	34-167			
Vinyl chloride	19.4	0.50	ug/L	20.00		97	57-141			
Surrogate: 4-Bromofluorobenzene	*50.0*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.00*		*98*	*77-123*			
LCS Dup (P7J0072-BSD1)				Prepared & Analyzed: 10/04/17						
1,1,1,2-Tetrachloroethane	17.7	0.50	ug/L	20.00		89	79-134	0.8	20	
1,1,1-Trichloroethane	17.6	0.50	ug/L	20.00		88	75-136	3	20	
1,1,2,2-Tetrachloroethane	18.6	0.50	ug/L	20.00		93	62-127	1	20	
1,1,2-Trichloroethane	19.0	0.50	ug/L	20.00		95	70-140	2	20	
1,1-Dichloroethane	19.0	0.50	ug/L	20.00		95	78-130	5	20	
1,1-Dichloroethylene	17.5	0.50	ug/L	20.00		88	70-154	5	20	
1,1-Dichloropropylene	16.4	0.50	ug/L	20.00		82	71-136	6	20	
1,2,3-Trichlorobenzene	18.6	2.0	ug/L	20.00		93	58-144	2	20	
1,2,3-Trichloropropane	19.4	1.0	ug/L	20.00		97	71-127	3	20	
1,2,4-Trichlorobenzene	18.7	1.0	ug/L	20.00		93	66-139	3	20	
1,2,4-Trimethylbenzene	19.5	0.50	ug/L	20.00		98	75-133	2	20	
1,2-Dibromo-3-chloropropane	17.6	2.0	ug/L	20.00		88	63-134	1	20	
1,2-Dibromoethane	21.3	0.50	ug/L	20.00		106	77-135	1	20	
1,2-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	78-128	0.2	20	
1,2-Dichloroethane	19.1	0.50	ug/L	20.00		96	68-131	3	20	
1,2-Dichloropropane	18.5	0.50	ug/L	20.00		92	77-130	5	20	
1,3,5-Trimethylbenzene	19.2	0.50	ug/L	20.00		96	75-131	3	20	
1,3-Dichlorobenzene	19.0	0.50	ug/L	20.00		95	77-125	0.7	20	
1,3-Dichloropropane	18.8	0.50	ug/L	20.00		94	76-132	1	20	
1,4-Dichlorobenzene	18.4	0.50	ug/L	20.00		92	75-126	0.2	20	
2,2-Dichloropropane	19.8	2.0	ug/L	20.00		99	29-149	5	20	
2-Chlorotoluene	19.2	0.50	ug/L	20.00		96	74-126	2	20	
4-Chlorotoluene	19.1	0.50	ug/L	20.00		95	78-129	1	20	
4-Isopropyltoluene	18.9	0.50	ug/L	20.00		94	69-132	3	20	
Acetone	38.1	5.0	ug/L	40.00		95	40-166	0.9	20	
Acrolein	38.4	20	ug/L	40.00		96	70-130	2	20	
Acrylonitrile	39.8	20	ug/L	40.00		99	81-127	1	20	
Benzene	19.1	0.50	ug/L	20.00		95	77-128	4	20	
Bromobenzene	19.4	0.50	ug/L	20.00		97	78-129	0.6	20	
Bromochloromethane	19.8	0.50	ug/L	20.00		99	78-135	0.6	20	
Bromodichloromethane	20.2	0.50	ug/L	20.00		101	76-138	4	20	
Bromoform	16.5	1.0	ug/L	20.00		83	71-135	1	20	
Bromomethane	17.5	1.0	ug/L	20.00		88	41-168	6	20	
Carbon disulfide	18.5	5.0	ug/L	20.00		92	59-135	6	20	
Carbon Tetrachloride	17.2	0.50	ug/L	20.00		86	72-142	4	20	
Chlorobenzene	19.2	0.50	ug/L	20.00		96	78-119	2	20	
Chloroethane	16.0	0.50	ug/L	20.00		80	57-142	8	20	
Chloroform	19.1	0.50	ug/L	20.00		95	77-130	5	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
LCS Dup (P7J0072-BSD1)				Prepared & Analyzed: 10/04/17						
Chloromethane	17.2	0.50	ug/L	20.00		86	47-145	4	20	
cis-1,2-Dichloroethylene	19.1	0.50	ug/L	20.00		95	76-141	5	20	
cis-1,3-Dichloropropylene	18.3	0.50	ug/L	20.00		92	65-140	2	20	
Dibromochloromethane	17.7	0.50	ug/L	20.00		89	75-134	0.7	20	
Dibromomethane	19.1	0.50	ug/L	20.00		96	76-138	2	20	
Dichlorodifluoromethane	15.4	1.0	ug/L	20.00		77	28-163	3	20	
Ethylbenzene	19.3	0.50	ug/L	20.00		96	80-127	1	20	
Hexachlorobutadiene	18.8	2.0	ug/L	20.00		94	61-134	1	20	
Isopropyl Ether	19.0	0.50	ug/L	20.00		95	60-154	4	20	
Isopropylbenzene (Cumene)	19.0	0.50	ug/L	20.00		95	70-130	1	20	
m,p-Xylenes	39.8	1.0	ug/L	40.00		99	77-133	1	20	
Methyl Butyl Ketone (2-Hexanone)	21.2	5.0	ug/L	20.00		106	64-137	0.3	20	
Methyl Ethyl Ketone (2-Butanone)	18.3	5.0	ug/L	20.00		92	71-134	8	20	
Methyl Isobutyl Ketone	21.1	5.0	ug/L	20.00		105	69-134	1	20	
Methylene Chloride	17.6	1.0	ug/L	20.00		88	73-131	3	20	
Methyl-tert-Butyl Ether	20.4	0.50	ug/L	20.00		102	68-135	1	20	
Naphthalene	19.3	1.0	ug/L	20.00		97	64-136	1	20	
n-Butylbenzene	19.1	1.0	ug/L	20.00		96	68-134	5	20	
n-Propylbenzene	18.7	0.50	ug/L	20.00		93	72-132	3	20	
o-Xylene	19.2	0.50	ug/L	20.00		96	78-128	1	20	
sec-Butylbenzene	18.6	0.50	ug/L	20.00		93	71-131	2	20	
Styrene	18.5	0.50	ug/L	20.00		92	78-129	1	20	
tert-Butylbenzene	18.2	0.50	ug/L	20.00		91	70-132	1	20	
Tetrachloroethylene	17.9	0.50	ug/L	20.00		90	80-129	2	20	
Toluene	19.0	0.50	ug/L	20.00		95	76-131	5	20	
trans-1,2-Dichloroethylene	19.5	0.50	ug/L	20.00		97	76-135	6	20	
trans-1,3-Dichloropropylene	17.4	0.50	ug/L	20.00		87	67-140	3	20	
Trichloroethylene	18.4	0.50	ug/L	20.00		92	77-133	5	20	
Trichlorofluoromethane	16.9	0.50	ug/L	20.00		84	62-148	6	20	
Vinyl acetate	18.9	2.0	ug/L	20.00		94	34-167	2	20	
Vinyl chloride	18.2	0.50	ug/L	20.00		91	57-141	6	20	
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99*	*77-123*			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
Blank (P7J0137-BLK1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
Blank (P7J0137-BLK1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*108*		*ug/L*	*100.0*		*108*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*47.1*		*ug/L*	*50.00*		*94*	*44-119*			
Surrogate: 2-Fluorophenol	*66.0*		*ug/L*	*100.0*		*66*	*19-119*			
Surrogate: Nitrobenzene-d5	*50.0*		*ug/L*	*50.00*		*100*	*44-120*			
Surrogate: Phenol-d5	*41.1*		*ug/L*	*100.0*		*41*	*11-52*			
Surrogate: Terphenyl-d14	*66.8*		*ug/L*	*50.00*		*134*	*50-134*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS (P7J0137-BS1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	40.4	10	ug/L	100.0		40	29-126			
1,2-Dichlorobenzene	47.9	10	ug/L	100.0		48	32-111			
1,3-Dichlorobenzene	45.8	10	ug/L	100.0		46	28-110			
1,4-Dichlorobenzene	45.2	10	ug/L	100.0		45	29-112			
1-Methylnaphthalene	48.7	10	ug/L	100.0		49	41-119			
2,4,5-Trichlorophenol	65.9	10	ug/L	100.0		66	53-123			
2,4,6-Trichlorophenol	63.7	10	ug/L	100.0		64	50-125			
2,4-Dichlorophenol	51.2	10	ug/L	100.0		51	47-121			
2,4-Dimethylphenol	60.7	10	ug/L	100.0		61	31-124			
2,4-Dinitrophenol	51.6	10	ug/L	100.0		52	23-143			
2,4-Dinitrotoluene	65.6	10	ug/L	100.0		66	57-128			
2,6-Dinitrotoluene	67.1	10	ug/L	100.0		67	57-124			
2-Chloronaphthalene	58.2	10	ug/L	100.0		58	40-116			
2-Chlorophenol	60.1	10	ug/L	100.0		60	38-117			
2-Methylnaphthalene	46.9	10	ug/L	100.0		47	40-121			
2-Methylphenol	58.7	10	ug/L	100.0		59	30-117			
2-Nitroaniline	63.8	10	ug/L	100.0		64	55-127			
2-Nitrophenol	50.4	10	ug/L	100.0		50	47-123			
3,3'-Dichlorobenzidine	68.8	10	ug/L	100.0		69	27-129			
3/4-Methylphenol	46.7	10	ug/L	100.0		47	29-110			
3-Nitroaniline	68.1	10	ug/L	100.0		68	41-128			
4,6-Dinitro-2-methylphenol	58.3	10	ug/L	100.0		58	44-137			
4-Bromophenyl phenyl ether	58.7	10	ug/L	100.0		59	55-124			
4-Chloro-3-methylphenol	55.1	10	ug/L	100.0		55	52-119			
4-Chloroaniline	61.8	10	ug/L	100.0		62	33-117			
4-Chlorophenyl phenyl ether	60.4	10	ug/L	100.0		60	53-121			
4-Nitroaniline	70.0	10	ug/L	100.0		70	45-135			
4-Nitrophenol	27.4	10	ug/L	100.0		27	10-77			
Acenaphthene	61.0	10	ug/L	100.0		61	47-122			
Acenaphthylene	63.6	10	ug/L	100.0		64	41-130			
Aniline	130	10	ug/L	100.0		130	12-197			
Anthracene	66.1	10	ug/L	100.0		66	57-123			
Azobenzene	62.4	10	ug/L	100.0		62	61-116			
Benzo(a)anthracene	64.6	10	ug/L	100.0		65	58-125			
Benzo(a)pyrene	63.1	10	ug/L	100.0		63	54-128			
Benzo(b)fluoranthene	61.8	10	ug/L	100.0		62	53-131			
Benzo(g,h,i)perylene	62.6	10	ug/L	100.0		63	50-134			
Benzo(k)fluoranthene	64.0	10	ug/L	100.0		64	57-129			
Benzoic Acid	15.3	100	ug/L	100.0		15	10-125			
Benzyl alcohol	56.9	10	ug/L	100.0		57	31-112			
bis(2-Chloroethoxy)methane	50.8	10	ug/L	100.0		51	48-120			
Bis(2-Chloroethyl)ether	56.9	10	ug/L	100.0		57	43-118			
Bis(2-chloroisopropyl)ether	57.3	10	ug/L	100.0		57	37-130			
Bis(2-Ethylhexyl)phthalate	67.6	10	ug/L	100.0		68	55-135			
Butyl benzyl phthalate	66.8	10	ug/L	100.0		67	53-134			
Chrysene	70.9	10	ug/L	100.0		71	59-123			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS (P7J0137-BS1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	76.0	10	ug/L	100.0		76	51-134			
Dibenzofuran	63.0	10	ug/L	100.0		63	53-118			
Diethyl phthalate	64.0	10	ug/L	100.0		64	56-125			
Dimethyl phthalate	64.2	10	ug/L	100.0		64	45-127			
Di-n-butyl phthalate	65.6	10	ug/L	100.0		66	59-127			
Di-n-octyl phthalate	64.5	10	ug/L	100.0		64	51-140			
Fluoranthene	64.8	10	ug/L	100.0		65	57-128			
Fluorene	62.3	10	ug/L	100.0		62	52-124			
Hexachlorobenzene	62.2	10	ug/L	100.0		62	53-125			
Hexachlorobutadiene	38.3	10	ug/L	100.0		38	22-124			
Hexachlorocyclopentadiene	41.3	10	ug/L	100.0		41	32-117			
Hexachloroethane	41.1	10	ug/L	100.0		41	21-115			
Indeno(1,2,3-cd)pyrene	58.8	10	ug/L	100.0		59	52-134			
Isophorone	56.6	10	ug/L	100.0		57	42-124			
Naphthalene	47.8	10	ug/L	100.0		48	40-121			
Nitrobenzene	46.8	10	ug/L	100.0		47	45-121			
N-Nitroso-di-n-propylamine	64.7	10	ug/L	100.0		65	49-119			
N-Nitrosodiphenylamine	78.8	10	ug/L	100.0		79	51-123			
Pentachlorophenol	68.2	10	ug/L	100.0		68	35-138			
Phenanthrene	65.1	10	ug/L	100.0		65	59-120			
Phenol	25.5	10	ug/L	100.0		26	12-58			
Pyrene	65.8	10	ug/L	100.0		66	57-126			
Surrogate: 2,4,6-Tribromophenol	*142*		*ug/L*	*200.0*		*71*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*61.1*		*ug/L*	*100.0*		*61*	*44-119*			
Surrogate: 2-Fluorophenol	*84.1*		*ug/L*	*200.0*		*42*	*19-119*			
Surrogate: Nitrobenzene-d5	*53.8*		*ug/L*	*100.0*		*54*	*44-120*			
Surrogate: Phenol-d5	*52.8*		*ug/L*	*200.0*		*26*	*11-52*			
Surrogate: Terphenyl-d14	*77.2*		*ug/L*	*100.0*		*77*	*50-134*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS Dup (P7J0137-BSD1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	37.7	10	ug/L	100.0		38	29-126	7	20	
1,2-Dichlorobenzene	43.4	10	ug/L	100.0		43	32-111	10	20	
1,3-Dichlorobenzene	41.6	10	ug/L	100.0		42	28-110	10	20	
1,4-Dichlorobenzene	41.3	10	ug/L	100.0		41	29-112	9	20	
1-Methylnaphthalene	45.4	10	ug/L	100.0		45	41-119	7	20	
2,4,5-Trichlorophenol	63.3	10	ug/L	100.0		63	53-123	4	20	
2,4,6-Trichlorophenol	60.3	10	ug/L	100.0		60	50-125	6	20	
2,4-Dichlorophenol	49.0	10	ug/L	100.0		49	47-121	4	20	
2,4-Dimethylphenol	56.8	10	ug/L	100.0		57	31-124	7	20	
2,4-Dinitrophenol	50.9	10	ug/L	100.0		51	23-143	1	20	
2,4-Dinitrotoluene	63.6	10	ug/L	100.0		64	57-128	3	20	
2,6-Dinitrotoluene	64.1	10	ug/L	100.0		64	57-124	5	20	
2-Chloronaphthalene	54.1	10	ug/L	100.0		54	40-116	7	20	
2-Chlorophenol	56.0	10	ug/L	100.0		56	38-117	7	20	
2-Methylnaphthalene	43.5	10	ug/L	100.0		44	40-121	8	20	
2-Methylphenol	54.2	10	ug/L	100.0		54	30-117	8	20	
2-Nitroaniline	63.0	10	ug/L	100.0		63	55-127	1	20	
2-Nitrophenol	47.7	10	ug/L	100.0		48	47-123	6	20	
3,3'-Dichlorobenzidine	69.3	10	ug/L	100.0		69	27-129	0.8	20	
3/4-Methylphenol	43.9	10	ug/L	100.0		44	29-110	6	20	
3-Nitroaniline	66.2	10	ug/L	100.0		66	41-128	3	20	
4,6-Dinitro-2-methylphenol	57.8	10	ug/L	100.0		58	44-137	0.9	20	
4-Bromophenyl phenyl ether	58.0	10	ug/L	100.0		58	55-124	1	20	
4-Chloro-3-methylphenol	51.9	10	ug/L	100.0		52	52-119	6	20	L2
4-Chloroaniline	60.9	10	ug/L	100.0		61	33-117	2	20	
4-Chlorophenyl phenyl ether	57.1	10	ug/L	100.0		57	53-121	6	20	
4-Nitroaniline	66.6	10	ug/L	100.0		67	45-135	5	20	
4-Nitrophenol	25.9	10	ug/L	100.0		26	10-77	6	20	
Acenaphthene	57.6	10	ug/L	100.0		58	47-122	6	20	
Acenaphthylene	59.5	10	ug/L	100.0		60	41-130	7	20	
Aniline	128	10	ug/L	100.0		128	12-197	1	20	
Anthracene	65.5	10	ug/L	100.0		65	57-123	1	20	
Azobenzene	60.6	10	ug/L	100.0		61	61-116	3	20	L2
Benzo(a)anthracene	63.8	10	ug/L	100.0		64	58-125	1	20	
Benzo(a)pyrene	60.8	10	ug/L	100.0		61	54-128	4	20	
Benzo(b)fluoranthene	60.1	10	ug/L	100.0		60	53-131	3	20	
Benzo(g,h,i)perylene	61.0	10	ug/L	100.0		61	50-134	3	20	
Benzo(k)fluoranthene	62.1	10	ug/L	100.0		62	57-129	3	20	
Benzoic Acid	6.32	100	ug/L	100.0		6	10-125	83	20	D, L2
Benzyl alcohol	53.0	10	ug/L	100.0		53	31-112	7	20	
bis(2-Chloroethoxy)methane	47.7	10	ug/L	100.0		48	48-120	6	20	L2
Bis(2-Chloroethyl)ether	53.8	10	ug/L	100.0		54	43-118	6	20	
Bis(2-chloroisopropyl)ether	52.8	10	ug/L	100.0		53	37-130	8	20	
Bis(2-Ethylhexyl)phthalate	66.7	10	ug/L	100.0		67	55-135	1	20	
Butyl benzyl phthalate	65.6	10	ug/L	100.0		66	53-134	2	20	
Chrysene	66.7	10	ug/L	100.0		67	59-123	6	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS Dup (P7J0137-BSD1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	39.4	10	ug/L	100.0		39	51-134	63	20	D, L2
Dibenzofuran	59.9	10	ug/L	100.0		60	53-118	5	20	
Diethyl phthalate	62.0	10	ug/L	100.0		62	56-125	3	20	
Dimethyl phthalate	62.2	10	ug/L	100.0		62	45-127	3	20	
Di-n-butyl phthalate	65.4	10	ug/L	100.0		65	59-127	0.4	20	
Di-n-octyl phthalate	62.8	10	ug/L	100.0		63	51-140	3	20	
Fluoranthene	64.0	10	ug/L	100.0		64	57-128	1	20	
Fluorene	59.9	10	ug/L	100.0		60	52-124	4	20	
Hexachlorobenzene	62.3	10	ug/L	100.0		62	53-125	0.2	20	
Hexachlorobutadiene	34.2	10	ug/L	100.0		34	22-124	11	20	
Hexachlorocyclopentadiene	39.3	10	ug/L	100.0		39	32-117	5	20	
Hexachloroethane	36.3	10	ug/L	100.0		36	21-115	12	20	
Indeno(1,2,3-cd)pyrene	65.7	10	ug/L	100.0		66	52-134	11	20	
Isophorone	53.0	10	ug/L	100.0		53	42-124	7	20	
Naphthalene	44.8	10	ug/L	100.0		45	40-121	7	20	
Nitrobenzene	44.5	10	ug/L	100.0		45	45-121	5	20	L2
N-Nitroso-di-n-propylamine	58.6	10	ug/L	100.0		59	49-119	10	20	
N-Nitrosodiphenylamine	77.2	10	ug/L	100.0		77	51-123	2	20	
Pentachlorophenol	67.5	10	ug/L	100.0		68	35-138	1	20	
Phenanthrene	64.9	10	ug/L	100.0		65	59-120	0.3	20	
Phenol	24.2	10	ug/L	100.0		24	12-58	6	20	
Pyrene	65.9	10	ug/L	100.0		66	57-126	0.1	20	
Surrogate: 2,4,6-Tribromophenol	*132*		*ug/L*	*200.0*		*66*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*55.2*		*ug/L*	*100.0*		*55*	*44-119*			
Surrogate: 2-Fluorophenol	*75.2*		*ug/L*	*200.0*		*38*	*19-119*			
Surrogate: Nitrobenzene-d5	*47.7*		*ug/L*	*100.0*		*48*	*44-120*			
Surrogate: Phenol-d5	*47.3*		*ug/L*	*200.0*		*24*	*11-52*			
Surrogate: Terphenyl-d14	*73.2*		*ug/L*	*100.0*		*73*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0059 - 3010A										
Blank (P7J0059-BLK1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0059-BS1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.243	0.010	mg/L	0.2500		97	80-120			
Barium	0.253	0.010	mg/L	0.2500		101	80-120			
Cadmium	0.246	0.0010	mg/L	0.2500		98	80-120			
Chromium	0.244	0.0050	mg/L	0.2500		98	80-120			
Lead	0.248	0.0050	mg/L	0.2500		99	80-120			
Selenium	0.236	0.020	mg/L	0.2500		94	80-120			
Silver	0.100	0.0050	mg/L	0.1000		100	80-120			
Matrix Spike (P7J0059-MS1)		**Source: 7100022-01**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.251	0.010	mg/L	0.2500	BRL	100	75-125			
Barium	0.312	0.010	mg/L	0.2500	0.0573	102	75-125			
Cadmium	0.246	0.0010	mg/L	0.2500	BRL	98	75-125			
Chromium	0.247	0.0050	mg/L	0.2500	BRL	99	75-125			
Lead	0.250	0.0050	mg/L	0.2500	0.00175	99	75-125			
Selenium	0.243	0.020	mg/L	0.2500	BRL	97	75-125			
Silver	0.102	0.0050	mg/L	0.1000	BRL	102	75-125			
Matrix Spike Dup (P7J0059-MSD1)		**Source: 7100022-01**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.253	0.010	mg/L	0.2500	BRL	101	75-125	1	20	
Barium	0.316	0.010	mg/L	0.2500	0.0573	104	75-125	1	20	
Cadmium	0.249	0.0010	mg/L	0.2500	BRL	100	75-125	1	20	
Chromium	0.250	0.0050	mg/L	0.2500	BRL	100	75-125	1	20	
Lead	0.253	0.0050	mg/L	0.2500	0.00175	100	75-125	1	20	
Selenium	0.245	0.020	mg/L	0.2500	BRL	98	75-125	0.9	20	
Silver	0.103	0.0050	mg/L	0.1000	BRL	103	75-125	1	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0149 - 7470A										
Blank (P7J0149-BLK1)				Prepared & Analyzed: 10/10/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0149-BS1)				Prepared & Analyzed: 10/10/17						
Mercury	0.00894	0.00020	mg/L	0.009375		95	80-120			
Matrix Spike (P7J0149-MS1)		**Source: 7100022-01**		Prepared & Analyzed: 10/10/17						
Mercury	0.00907	0.00020	mg/L	0.009375	BRL	97	80-120			
Matrix Spike Dup (P7J0149-MSD1)		**Source: 7100022-01**		Prepared & Analyzed: 10/10/17						
Mercury	0.00898	0.00020	mg/L	0.009375	BRL	96	80-120	1	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0065 - 3010A										
Blank (P7J0065-BLK1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0065-BS1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.258	0.010	mg/L	0.2500		103	80-120			
Barium	0.252	0.010	mg/L	0.2500		101	80-120			
Cadmium	0.259	0.0010	mg/L	0.2500		104	80-120			
Chromium	0.247	0.0050	mg/L	0.2500		99	80-120			
Lead	0.252	0.0050	mg/L	0.2500		101	80-120			
Selenium	0.283	0.020	mg/L	0.2500		113	80-120			
Silver	0.103	0.0050	mg/L	0.1000		103	80-120			
Matrix Spike (P7J0065-MS1)		**Source: 7100022-02**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.256	0.010	mg/L	0.2500	BRL	102	75-125			
Barium	0.330	0.010	mg/L	0.2500	0.0810	100	75-125			
Cadmium	0.250	0.0010	mg/L	0.2500	BRL	100	75-125			
Chromium	0.243	0.0050	mg/L	0.2500	0.00296	96	75-125			
Lead	0.249	0.0050	mg/L	0.2500	0.00134	99	75-125			
Selenium	0.275	0.020	mg/L	0.2500	BRL	110	75-125			
Silver	0.0585	0.0050	mg/L	0.1000	BRL	59	75-125			M
Matrix Spike Dup (P7J0065-MSD1)		**Source: 7100022-02**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.257	0.010	mg/L	0.2500	BRL	103	75-125	0.6	20	
Barium	0.329	0.010	mg/L	0.2500	0.0810	99	75-125	0.4	20	
Cadmium	0.249	0.0010	mg/L	0.2500	BRL	99	75-125	0.4	20	
Chromium	0.243	0.0050	mg/L	0.2500	0.00296	96	75-125	0.009	20	
Lead	0.249	0.0050	mg/L	0.2500	0.00134	99	75-125	0.3	20	
Selenium	0.277	0.020	mg/L	0.2500	BRL	111	75-125	0.6	20	
Silver	0.0592	0.0050	mg/L	0.1000	BRL	59	75-125	1	20	M

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0150 - 7470A										
Blank (P7J0150-BLK1)				Prepared & Analyzed: 10/10/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0150-BS1)				Prepared & Analyzed: 10/10/17						
Mercury	0.00900	0.00020	mg/L	0.009375		96	80-120			
Matrix Spike (P7J0150-MS1)		**Source: 7100022-03**		Prepared & Analyzed: 10/10/17						
Mercury	0.00908	0.00020	mg/L	0.009375	BRL	97	80-120			
Matrix Spike Dup (P7J0150-MSD1)		**Source: 7100022-03**		Prepared & Analyzed: 10/10/17						
Mercury	0.00923	0.00020	mg/L	0.009375	BRL	98	80-120	2	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0094 - NO PREP										
Blank (P7J0094-BLK1)				Prepared & Analyzed: 10/05/17						
Chloride	BRL	1.0	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P7J0094-BS1)				Prepared & Analyzed: 10/05/17						
Chloride	39.7	1.0	mg/L	40.00		99	80-120			
Sulfate	39.9	1.0	mg/L	40.00		100	80-120			
Matrix Spike (P7J0094-MS1)		**Source: 7100022-01**		Prepared & Analyzed: 10/05/17						
Chloride	67.6	1.0	mg/L	40.00	27.9	99	80-120			
Sulfate	69.6	1.0	mg/L	40.00	29.9	99	80-120			
Matrix Spike Dup (P7J0094-MSD1)		**Source: 7100022-01**		Prepared & Analyzed: 10/05/17						
Chloride	67.1	1.0	mg/L	40.00	27.9	98	80-120	0.7	15	
Sulfate	68.7	1.0	mg/L	40.00	29.9	97	80-120	1	15	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0052 - NO PREP										
LCS (P7J0052-BS1)				Prepared & Analyzed: 10/02/17						
pH	6.85		pH Units	6.880		100	98.5-101.5			

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Sample Extraction Data

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0065	50 mL	50 mL	10/04/17 10:35
7100022-02	P7J0065	50 mL	50 mL	10/04/17 10:35
7100022-03	P7J0065	50 mL	50 mL	10/04/17 10:35
7100022-04	P7J0065	50 mL	50 mL	10/04/17 10:35

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0150	20 mL	30 mL	10/10/17 8:10
7100022-02	P7J0150	20 mL	30 mL	10/10/17 8:10
7100022-03	P7J0150	20 mL	30 mL	10/10/17 8:10
7100022-04	P7J0150	20 mL	30 mL	10/10/17 8:10

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0137	970 mL	1 mL	10/09/17 11:20
7100022-02	P7J0137	1000 mL	1 mL	10/09/17 11:20
7100022-03	P7J0137	1000 mL	1 mL	10/09/17 11:20
7100022-04	P7J0137	950 mL	1 mL	10/09/17 11:20

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0059	50 mL	50 mL	10/04/17 8:25
7100022-02	P7J0059	50 mL	50 mL	10/04/17 8:25
7100022-03	P7J0059	50 mL	50 mL	10/04/17 8:25
7100022-04	P7J0059	50 mL	50 mL	10/04/17 8:25

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0149	20 mL	30 mL	10/10/17 8:10
7100022-02	P7J0149	20 mL	30 mL	10/10/17 8:10
7100022-03	P7J0149	20 mL	30 mL	10/10/17 8:10
7100022-04	P7J0149	20 mL	30 mL	10/10/17 8:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0072	10 mL	10 mL	10/04/17 15:21
7100022-02	P7J0072	10 mL	10 mL	10/04/17 15:21
7100022-03	P7J0072	10 mL	10 mL	10/04/17 15:21
7100022-04	P7J0072	10 mL	10 mL	10/04/17 15:21

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PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ROW.515

Project Name: Charlotte Gateway Station
Short Hold Analysis: (Yes) (No) pH UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS # 44475.1.2
Address:

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.586.0007 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte NC

Purchase Order No./Billing Reference ROW-515
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: NCT71 Observed: 2.5 °C / Corr: 2.3 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOCs-8260	SVOCs-8270	RCRA Metals 7471	ETX 8021	Chloride 4500	Sulfate 8015	Dissolved RCRA Metals**	REMARKS	PRISM LAB ID NO.
MW-1	10/02/17	1325	WATER	VOA, A, P	8	Varies	None, HCL, HNO3	X	X	X	X	X	X	X	* pH-24 hr hold time*	01
MW-2	↓	1150	↓	↓	↓	↓	↓	X	X	X	X	X	X	X		02
MW-3	↓	1520	↓	↓	↓	↓	↓	X	X	X	X	X	X	X		03
MW-4	↓	1300	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	** Dissolved RCRA Metals were filtered in the field**	04

Sampler's Signature Kenneth J Wieland Sampled By (Print Name) Kenneth J Wieland Affiliation H&H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Kenneth J Wieland		10/02/17	16:40
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		10/2/17	1640

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 7100022

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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NC Drinking Water Cert No. 37735
SC Certification No. 99012

Case Narrative

10/30/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 10/19/2017
Prism Work Order: 7100384

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
HT	Sample received and analyzed outside of the hold time.
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/30/2017

Prism Work Order: 7100384

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-301	7100384-01	Water	10/19/17	10/19/17

Samples were received in good condition at 2.4 degrees C unless otherwise noted.

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Summary of Detections

10/30/2017

Prism Work Order: 7100384

Prism ID	Client ID	Parameter	Method	Result		Units
7100384-01	MW-301	Chloride	*9056A	51		mg/L
7100384-01	MW-301	Sulfate	*9056A	150		mg/L
7100384-01	MW-301	Barium	*6010D	0.064		mg/L
7100384-01	MW-301	Selenium	*6010D	0.026		mg/L
7100384-01	MW-301	pH	*SM4500-H B	6.0	HT	pH Units
7100384-01	MW-301	Mercury	*7470A	0.0087		mg/L
7100384-01	MW-301	Barium	*6010D	0.068		mg/L
7100384-01	MW-301	1,2-Dichloroethane	*8260B	1.8		ug/L
7100384-01	MW-301	Acetone	*8260B	6.5		ug/L
7100384-01	MW-301	Benzene	*8260B	48		ug/L
7100384-01	MW-301	Carbon Tetrachloride	*8260B	6.9		ug/L
7100384-01	MW-301	Chloroform	*8260B	4.0		ug/L
7100384-01	MW-301	Isopropyl Ether	*8260B	8.1		ug/L
7100384-01	MW-301	Methyl-tert-Butyl Ether	*8260B	7.9		ug/L
7100384-01	MW-301	Naphthalene	*8260B	2.1		ug/L
7100384-01	MW-301	Tetrachloroethylene	*8260B	11		ug/L

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-301
Prism Sample ID: 7100384-01
Prism Work Order: 7100384
Time Collected: 10/19/17 11:30
Time Submitted: 10/19/17 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**51**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/20/17 20:06**	**BMS**	**P7J0412**
Sulfate	**150**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/20/17 20:06**	**BMS**	**P7J0412**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/26/17 12:18	JAB	P7J0508
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/23/17 13:37	JAB	P7J0416
Barium	**0.064**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/23/17 13:37**	**JAB**	**P7J0416**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/23/17 13:37	JAB	P7J0416
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/23/17 13:37	JAB	P7J0416
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/23/17 13:37	JAB	P7J0416
Selenium	**0.026**	**mg/L**	**0.020**	**0.0056**	**1**	***6010D**	**10/23/17 13:37**	**JAB**	**P7J0416**
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/23/17 13:37	JAB	P7J0416
General Chemistry Parameters									
pH	**6.0 HT**	**pH Units**			**1**	***SM4500-H B**	**10/19/17 16:58**	**EGC**	**P7J0393**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/26/17 12:03	JMV	P7J0471
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/26/17 12:03	JMV	P7J0471
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/26/17 12:03	JMV	P7J0471
1-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,4-Dimethylphenol	BRL	ug/L	10	3.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,4-Dinitrophenol	BRL	ug/L	10	2.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
2,6-Dinitrotoluene	BRL	ug/L	10	1.2	1	*8270D	10/26/17 12:03	JMV	P7J0471
2-Chloronaphthalene	BRL	ug/L	10	2.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/26/17 12:03	JMV	P7J0471
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
2-Methylphenol	BRL	ug/L	10	1.9	1	*8270D	10/26/17 12:03	JMV	P7J0471
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
4-Chloroaniline	BRL	ug/L	10	2.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
4-Nitroaniline	BRL	ug/L	10	0.95	1	*8270D	10/26/17 12:03	JMV	P7J0471

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Laboratory Report

10/30/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-301
Prism Sample ID: 7100384-01
Prism Work Order: 7100384
Time Collected: 10/19/17 11:30
Time Submitted: 10/19/17 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.61	1	*8270D	10/26/17 12:03	JMV	P7J0471
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/26/17 12:03	JMV	P7J0471
Aniline	BRL	ug/L	10	2.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Anthracene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzoic Acid	BRL	ug/L	100	4.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/26/17 12:03	JMV	P7J0471
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/26/17 12:03	JMV	P7J0471
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/26/17 12:03	JMV	P7J0471
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
Diethyl phthalate	BRL	ug/L	10	3.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/26/17 12:03	JMV	P7J0471
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/26/17 12:03	JMV	P7J0471
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/26/17 12:03	JMV	P7J0471
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/26/17 12:03	JMV	P7J0471
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/26/17 12:03	JMV	P7J0471
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/26/17 12:03	JMV	P7J0471
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	4.0	1	*8270D	10/26/17 12:03	JMV	P7J0471
Isophorone	BRL	ug/L	10	2.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/26/17 12:03	JMV	P7J0471
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/26/17 12:03	JMV	P7J0471
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/26/17 12:03	JMV	P7J0471
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471
Phenol	BRL	ug/L	10	1.0	1	*8270D	10/26/17 12:03	JMV	P7J0471
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/26/17 12:03	JMV	P7J0471

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*84 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-301
Prism Sample ID: 7100384-01
Prism Work Order: 7100384
Time Collected: 10/19/17 11:30
Time Submitted: 10/19/17 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			84 %		44-119	
			2-Fluorophenol			55 %		19-119	
			Nitrobenzene-d5			80 %		44-120	
			Phenol-d5			36 %		11-52	
			Terphenyl-d14			89 %		50-134	
Total Metals									
Mercury	**0.0087**	**mg/L**	**0.00020**	**0.000036**	**1**	***7470A**	**10/24/17 13:25**	**JAB**	**P7J0448**
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/23/17 16:30	JAB	P7J0401
Barium	**0.068**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/23/17 16:30**	**JAB**	**P7J0401**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/23/17 16:30	JAB	P7J0401
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/23/17 16:30	JAB	P7J0401
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/23/17 16:30	JAB	P7J0401
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/23/17 16:30	JAB	P7J0401
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/23/17 16:30	JAB	P7J0401
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,2-Dichloroethane	**1.8**	**ug/L**	**0.50**	**0.066**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/24/17 19:55	KDM	P7J0472
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/24/17 19:55	KDM	P7J0472
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/24/17 19:55	KDM	P7J0472
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/24/17 19:55	KDM	P7J0472
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/24/17 19:55	KDM	P7J0472
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/24/17 19:55	KDM	P7J0472
Acetone	**6.5**	**ug/L**	**5.0**	**0.31**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/24/17 19:55	KDM	P7J0472
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/24/17 19:55	KDM	P7J0472
Benzene	**48**	**ug/L**	**0.50**	**0.048**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**

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Laboratory Report

10/30/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-301
Prism Sample ID: 7100384-01
Prism Work Order: 7100384
Time Collected: 10/19/17 11:30
Time Submitted: 10/19/17 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/24/17 19:55	KDM	P7J0472
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/24/17 19:55	KDM	P7J0472
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/24/17 19:55	KDM	P7J0472
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/24/17 19:55	KDM	P7J0472
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/24/17 19:55	KDM	P7J0472
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/24/17 19:55	KDM	P7J0472
Carbon Tetrachloride	**6.9**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/24/17 19:55	KDM	P7J0472
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/24/17 19:55	KDM	P7J0472
Chloroform	**4.0**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/24/17 19:55	KDM	P7J0472
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/24/17 19:55	KDM	P7J0472
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/24/17 19:55	KDM	P7J0472
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/24/17 19:55	KDM	P7J0472
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/24/17 19:55	KDM	P7J0472
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/24/17 19:55	KDM	P7J0472
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/24/17 19:55	KDM	P7J0472
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/24/17 19:55	KDM	P7J0472
Isopropyl Ether	**8.1**	**ug/L**	**0.50**	**0.050**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/24/17 19:55	KDM	P7J0472
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/24/17 19:55	KDM	P7J0472
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/24/17 19:55	KDM	P7J0472
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/24/17 19:55	KDM	P7J0472
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/24/17 19:55	KDM	P7J0472
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/24/17 19:55	KDM	P7J0472
Methyl-tert-Butyl Ether	**7.9**	**ug/L**	**0.50**	**0.042**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
Naphthalene	**2.1**	**ug/L**	**1.0**	**0.19**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/24/17 19:55	KDM	P7J0472
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/24/17 19:55	KDM	P7J0472
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/24/17 19:55	KDM	P7J0472
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/24/17 19:55	KDM	P7J0472
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/24/17 19:55	KDM	P7J0472
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/24/17 19:55	KDM	P7J0472
Tetrachloroethylene	**11**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/24/17 19:55**	**KDM**	**P7J0472**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/24/17 19:55	KDM	P7J0472
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/24/17 19:55	KDM	P7J0472
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/24/17 19:55	KDM	P7J0472
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/24/17 19:55	KDM	P7J0472
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/24/17 19:55	KDM	P7J0472
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/24/17 19:55	KDM	P7J0472
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/24/17 19:55	KDM	P7J0472

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*86 %*	*80-124*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-301
Prism Sample ID: 7100384-01
Prism Work Order: 7100384
Time Collected: 10/19/17 11:30
Time Submitted: 10/19/17 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*91 %*	*75-129*	
			Toluene-d8				*90 %*	*77-123*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0472 - 5030B										
Blank (P7J0472-BLK1)				Prepared & Analyzed: 10/24/17						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane	BRL	5.0	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0472 - 5030B										
Blank (P7J0472-BLK1)				Prepared & Analyzed: 10/24/17						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*43.5*		*ug/L*	*50.00*		*87*	*80-124*			
Surrogate: Dibromofluoromethane	*45.5*		*ug/L*	*50.00*		*91*	*75-129*			
Surrogate: Toluene-d8	*45.6*		*ug/L*	*50.00*		*91*	*77-123*			

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Project: ROW-515

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Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0472 - 5030B										
LCS (P7J0472-BS1)				Prepared & Analyzed: 10/24/17						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	79-134			
1,1,1-Trichloroethane	21.2	0.50	ug/L	20.00		106	75-136			
1,1,2,2-Tetrachloroethane	21.8	0.50	ug/L	20.00		109	62-127			
1,1,2-Trichloro-1,2,2-trifluoroethane	22.5	5.0	ug/L	20.00		112	70-130			
1,1,2-Trichloroethane	21.2	0.50	ug/L	20.00		106	70-140			
1,1-Dichloroethane	20.6	0.50	ug/L	20.00		103	78-130			
1,1-Dichloroethylene	20.6	0.50	ug/L	20.00		103	70-154			
1,1-Dichloropropylene	21.4	0.50	ug/L	20.00		107	71-136			
1,2,3-Trichlorobenzene	21.8	2.0	ug/L	20.00		109	58-144			
1,2,3-Trichloropropane	21.7	1.0	ug/L	20.00		108	71-127			
1,2,4-Trichlorobenzene	22.1	1.0	ug/L	20.00		110	66-139			
1,2,4-Trimethylbenzene	21.7	0.50	ug/L	20.00		109	75-133			
1,2-Dibromo-3-chloropropane	19.7	2.0	ug/L	20.00		99	63-134			
1,2-Dibromoethane	21.7	0.50	ug/L	20.00		109	77-135			
1,2-Dichlorobenzene	21.6	0.50	ug/L	20.00		108	78-128			
1,2-Dichloroethane	21.3	0.50	ug/L	20.00		106	68-131			
1,2-Dichloropropane	21.1	0.50	ug/L	20.00		106	77-130			
1,3,5-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	75-131			
1,3-Dichlorobenzene	21.2	0.50	ug/L	20.00		106	77-125			
1,3-Dichloropropane	22.2	0.50	ug/L	20.00		111	76-132			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	75-126			
2,2-Dichloropropane	22.5	2.0	ug/L	20.00		112	29-149			
2-Chlorotoluene	21.3	0.50	ug/L	20.00		106	74-126			
4-Chlorotoluene	21.6	0.50	ug/L	20.00		108	78-129			
4-Isopropyltoluene	21.8	0.50	ug/L	20.00		109	69-132			
Acetone	39.4	5.0	ug/L	40.00		99	40-166			
Acrolein	40.0	20	ug/L	40.00		100	70-130			
Acrylonitrile	41.0	20	ug/L	40.00		103	81-127			
Benzene	21.2	0.50	ug/L	20.00		106	77-128			
Bromobenzene	20.7	0.50	ug/L	20.00		103	78-129			
Bromochloromethane	21.9	0.50	ug/L	20.00		109	78-135			
Bromodichloromethane	21.8	0.50	ug/L	20.00		109	76-138			
Bromoform	18.1	1.0	ug/L	20.00		90	71-135			
Bromomethane	16.8	1.0	ug/L	20.00		84	41-168			
Carbon disulfide	22.1	5.0	ug/L	20.00		111	59-135			
Carbon Tetrachloride	20.4	0.50	ug/L	20.00		102	72-142			
Chlorobenzene	21.3	0.50	ug/L	20.00		107	78-119			
Chloroethane	20.5	0.50	ug/L	20.00		102	57-142			
Chloroform	20.0	0.50	ug/L	20.00		100	77-130			
Chloromethane	14.1	0.50	ug/L	20.00		71	47-145			
cis-1,2-Dichloroethylene	21.0	0.50	ug/L	20.00		105	76-141			
cis-1,3-Dichloropropylene	22.8	0.50	ug/L	20.00		114	65-140			
Dibromochloromethane	20.1	0.50	ug/L	20.00		101	75-134			
Dibromomethane	21.1	0.50	ug/L	20.00		105	76-138			
Dichlorodifluoromethane	20.5	1.0	ug/L	20.00		102	28-163			
Ethylbenzene	22.0	0.50	ug/L	20.00		110	80-127			

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Hart & Hickman (Charlotte)
Attn: David Graham
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0472 - 5030B										
LCS (P7J0472-BS1)				Prepared & Analyzed: 10/24/17						
Hexachlorobutadiene	22.5	2.0	ug/L	20.00		113	61-134			
Isopropyl Ether	20.1	0.50	ug/L	20.00		100	60-154			
Isopropylbenzene (Cumene)	22.1	0.50	ug/L	20.00		111	70-130			
m,p-Xylenes	45.5	1.0	ug/L	40.00		114	77-133			
Methyl Butyl Ketone (2-Hexanone)	22.6	5.0	ug/L	20.00		113	64-137			
Methyl Ethyl Ketone (2-Butanone)	21.2	5.0	ug/L	20.00		106	71-134			
Methyl Isobutyl Ketone	22.6	5.0	ug/L	20.00		113	69-134			
Methylene Chloride	18.9	1.0	ug/L	20.00		95	73-131			
Methyl-tert-Butyl Ether	21.0	0.50	ug/L	20.00		105	68-135			
Naphthalene	22.9	1.0	ug/L	20.00		115	64-136			
n-Butylbenzene	22.6	1.0	ug/L	20.00		113	68-134			
n-Propylbenzene	22.5	0.50	ug/L	20.00		112	72-132			
o-Xylene	21.8	0.50	ug/L	20.00		109	78-128			
sec-Butylbenzene	22.6	0.50	ug/L	20.00		113	71-131			
Styrene	20.1	0.50	ug/L	20.00		101	78-129			
tert-Butylbenzene	21.6	0.50	ug/L	20.00		108	70-132			
Tetrachloroethylene	21.2	0.50	ug/L	20.00		106	80-129			
Toluene	21.3	0.50	ug/L	20.00		107	76-131			
trans-1,2-Dichloroethylene	21.6	0.50	ug/L	20.00		108	76-135			
trans-1,3-Dichloropropylene	20.5	0.50	ug/L	20.00		102	67-140			
Trichloroethylene	21.4	0.50	ug/L	20.00		107	77-133			
Trichlorofluoromethane	22.4	0.50	ug/L	20.00		112	62-148			
Vinyl acetate	22.2	2.0	ug/L	20.00		111	34-167			
Vinyl chloride	21.7	0.50	ug/L	20.00		108	57-141			
Surrogate: 4-Bromofluorobenzene	*42.6*		*ug/L*	*50.00*		*85*	*80-124*			
Surrogate: Dibromofluoromethane	*45.6*		*ug/L*	*50.00*		*91*	*75-129*			
Surrogate: Toluene-d8	*45.4*		*ug/L*	*50.00*		*91*	*77-123*			

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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0472 - 5030B										
LCS Dup (P7J0472-BSD1)				Prepared & Analyzed: 10/24/17						
1,1,1,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	79-134	0.9	20	
1,1,1-Trichloroethane	21.3	0.50	ug/L	20.00		106	75-136	0.2	20	
1,1,2,2-Tetrachloroethane	21.9	0.50	ug/L	20.00		109	62-127	0.4	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	22.4	5.0	ug/L	20.00		112	70-130	0.5	20	
1,1,2-Trichloroethane	22.1	0.50	ug/L	20.00		111	70-140	4	20	
1,1-Dichloroethane	20.5	0.50	ug/L	20.00		102	78-130	0.6	20	
1,1-Dichloroethylene	20.5	0.50	ug/L	20.00		103	70-154	0.4	20	
1,1-Dichloropropylene	21.4	0.50	ug/L	20.00		107	71-136	0.4	20	
1,2,3-Trichlorobenzene	22.1	2.0	ug/L	20.00		110	58-144	1	20	
1,2,3-Trichloropropane	22.0	1.0	ug/L	20.00		110	71-127	2	20	
1,2,4-Trichlorobenzene	22.0	1.0	ug/L	20.00		110	66-139	0.5	20	
1,2,4-Trimethylbenzene	21.5	0.50	ug/L	20.00		107	75-133	1	20	
1,2-Dibromo-3-chloropropane	21.1	2.0	ug/L	20.00		106	63-134	7	20	
1,2-Dibromoethane	22.1	0.50	ug/L	20.00		110	77-135	1	20	
1,2-Dichlorobenzene	21.8	0.50	ug/L	20.00		109	78-128	1	20	
1,2-Dichloroethane	21.5	0.50	ug/L	20.00		107	68-131	0.9	20	
1,2-Dichloropropane	20.9	0.50	ug/L	20.00		104	77-130	1	20	
1,3,5-Trimethylbenzene	21.2	0.50	ug/L	20.00		106	75-131	1	20	
1,3-Dichlorobenzene	21.1	0.50	ug/L	20.00		105	77-125	0.8	20	
1,3-Dichloropropane	22.3	0.50	ug/L	20.00		112	76-132	0.4	20	
1,4-Dichlorobenzene	20.9	0.50	ug/L	20.00		104	75-126	0.8	20	
2,2-Dichloropropane	22.2	2.0	ug/L	20.00		111	29-149	1	20	
2-Chlorotoluene	21.1	0.50	ug/L	20.00		105	74-126	1	20	
4-Chlorotoluene	21.1	0.50	ug/L	20.00		106	78-129	2	20	
4-Isopropyltoluene	21.4	0.50	ug/L	20.00		107	69-132	2	20	
Acetone	44.4	5.0	ug/L	40.00		111	40-166	12	20	
Acrolein	46.9	20	ug/L	40.00		117	70-130	16	20	
Acrylonitrile	43.7	20	ug/L	40.00		109	81-127	6	20	
Benzene	21.1	0.50	ug/L	20.00		105	77-128	0.7	20	
Bromobenzene	20.7	0.50	ug/L	20.00		103	78-129	0	20	
Bromochloromethane	22.2	0.50	ug/L	20.00		111	78-135	2	20	
Bromodichloromethane	22.1	0.50	ug/L	20.00		110	76-138	1	20	
Bromoform	18.5	1.0	ug/L	20.00		92	71-135	2	20	
Bromomethane	17.4	1.0	ug/L	20.00		87	41-168	3	20	
Carbon disulfide	21.7	5.0	ug/L	20.00		109	59-135	2	20	
Carbon Tetrachloride	20.1	0.50	ug/L	20.00		100	72-142	2	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	78-119	3	20	
Chloroethane	19.8	0.50	ug/L	20.00		99	57-142	4	20	
Chloroform	19.9	0.50	ug/L	20.00		100	77-130	0.8	20	
Chloromethane	16.0	0.50	ug/L	20.00		80	47-145	13	20	
cis-1,2-Dichloroethylene	21.0	0.50	ug/L	20.00		105	76-141	0.05	20	
cis-1,3-Dichloropropylene	22.8	0.50	ug/L	20.00		114	65-140	0.04	20	
Dibromochloromethane	20.2	0.50	ug/L	20.00		101	75-134	0.3	20	
Dibromomethane	21.4	0.50	ug/L	20.00		107	76-138	2	20	
Dichlorodifluoromethane	20.0	1.0	ug/L	20.00		100	28-163	2	20	
Ethylbenzene	21.6	0.50	ug/L	20.00		108	80-127	2	20	

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Attn: David Graham
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0472 - 5030B										
LCS Dup (P7J0472-BSD1)				Prepared & Analyzed: 10/24/17						
Hexachlorobutadiene	22.5	2.0	ug/L	20.00		113	61-134	0.09	20	
Isopropyl Ether	20.2	0.50	ug/L	20.00		101	60-154	0.4	20	
Isopropylbenzene (Cumene)	21.6	0.50	ug/L	20.00		108	70-130	2	20	
m,p-Xylenes	44.9	1.0	ug/L	40.00		112	77-133	1	20	
Methyl Butyl Ketone (2-Hexanone)	23.6	5.0	ug/L	20.00		118	64-137	4	20	
Methyl Ethyl Ketone (2-Butanone)	22.0	5.0	ug/L	20.00		110	71-134	3	20	
Methyl Isobutyl Ketone	23.2	5.0	ug/L	20.00		116	69-134	3	20	
Methylene Chloride	19.1	1.0	ug/L	20.00		96	73-131	1	20	
Methyl-tert-Butyl Ether	21.3	0.50	ug/L	20.00		107	68-135	1	20	
Naphthalene	23.6	1.0	ug/L	20.00		118	64-136	3	20	
n-Butylbenzene	21.9	1.0	ug/L	20.00		110	68-134	3	20	
n-Propylbenzene	21.8	0.50	ug/L	20.00		109	72-132	3	20	
o-Xylene	21.6	0.50	ug/L	20.00		108	78-128	1	20	
sec-Butylbenzene	21.9	0.50	ug/L	20.00		109	71-131	4	20	
Styrene	19.9	0.50	ug/L	20.00		99	78-129	1	20	
tert-Butylbenzene	21.1	0.50	ug/L	20.00		106	70-132	2	20	
Tetrachloroethylene	20.9	0.50	ug/L	20.00		104	80-129	1	20	
Toluene	21.3	0.50	ug/L	20.00		106	76-131	0.2	20	
trans-1,2-Dichloroethylene	21.6	0.50	ug/L	20.00		108	76-135	0.1	20	
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	67-140	2	20	
Trichloroethylene	21.2	0.50	ug/L	20.00		106	77-133	0.8	20	
Trichlorofluoromethane	21.6	0.50	ug/L	20.00		108	62-148	3	20	
Vinyl acetate	22.7	2.0	ug/L	20.00		113	34-167	2	20	
Vinyl chloride	22.0	0.50	ug/L	20.00		110	57-141	1	20	
Surrogate: 4-Bromofluorobenzene	*42.6*		*ug/L*	*50.00*		*85*	*80-124*			
Surrogate: Dibromofluoromethane	*46.2*		*ug/L*	*50.00*		*92*	*75-129*			
Surrogate: Toluene-d8	*45.4*		*ug/L*	*50.00*		*91*	*77-123*			

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Project: ROW-515

Project No: WBS# 44475.1.2

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Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
Blank (P7J0471-BLK1)				Prepared & Analyzed: 10/25/17						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
Blank (P7J0471-BLK1)				Prepared & Analyzed: 10/25/17						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*83.2*		*ug/L*	*100.0*		*83*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*39.7*		*ug/L*	*50.00*		*79*	*44-119*			
Surrogate: 2-Fluorophenol	*58.1*		*ug/L*	*100.0*		*58*	*19-119*			
Surrogate: Nitrobenzene-d5	*39.4*		*ug/L*	*50.00*		*79*	*44-120*			
Surrogate: Phenol-d5	*34.4*		*ug/L*	*100.0*		*34*	*11-52*			
Surrogate: Terphenyl-d14	*46.9*		*ug/L*	*50.00*		*94*	*50-134*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
LCS (P7J0471-BS1)				Prepared & Analyzed: 10/25/17						
1,2,4-Trichlorobenzene	30.6	10	ug/L	50.00		61	29-126			
1,2-Dichlorobenzene	31.4	10	ug/L	50.00		63	32-111			
1,3-Dichlorobenzene	30.7	10	ug/L	50.00		61	28-110			
1,4-Dichlorobenzene	30.3	10	ug/L	50.00		61	29-112			
1-Methylnaphthalene	37.0	10	ug/L	50.00		74	41-119			
2,4,5-Trichlorophenol	27.5	10	ug/L	50.00		55	53-123			
2,4,6-Trichlorophenol	21.4	10	ug/L	50.00		43	50-125			L1
2,4-Dichlorophenol	28.8	10	ug/L	50.00		58	47-121			
2,4-Dimethylphenol	45.4	10	ug/L	50.00		91	31-124			
2,4-Dinitrophenol	16.8	10	ug/L	50.00		34	23-143			
2,4-Dinitrotoluene	41.6	10	ug/L	50.00		83	57-128			
2,6-Dinitrotoluene	43.2	10	ug/L	50.00		86	57-124			
2-Chloronaphthalene	39.4	10	ug/L	50.00		79	40-116			
2-Chlorophenol	29.6	10	ug/L	50.00		59	38-117			
2-Methylnaphthalene	34.9	10	ug/L	50.00		70	40-121			
2-Methylphenol	35.7	10	ug/L	50.00		71	30-117			
2-Nitroaniline	42.2	10	ug/L	50.00		84	55-127			
2-Nitrophenol	25.8	10	ug/L	50.00		52	47-123			
3,3'-Dichlorobenzidine	48.2	10	ug/L	50.00		96	27-129			
3/4-Methylphenol	28.7	10	ug/L	50.00		57	29-110			
3-Nitroaniline	44.1	10	ug/L	50.00		88	41-128			
4,6-Dinitro-2-methylphenol	12.8	10	ug/L	50.00		26	44-137			L1
4-Bromophenyl phenyl ether	42.0	10	ug/L	50.00		84	55-124			
4-Chloro-3-methylphenol	37.7	10	ug/L	50.00		75	52-119			
4-Chloroaniline	38.4	10	ug/L	50.00		77	33-117			
4-Chlorophenyl phenyl ether	40.8	10	ug/L	50.00		82	53-121			
4-Nitroaniline	43.1	10	ug/L	50.00		86	45-135			
4-Nitrophenol	5.89	10	ug/L	50.00		12	10-77			
Acenaphthene	41.5	10	ug/L	50.00		83	47-122			
Acenaphthylene	43.0	10	ug/L	50.00		86	41-130			
Aniline	51.6	10	ug/L	50.00		103	12-197			
Anthracene	45.2	10	ug/L	50.00		90	57-123			
Azobenzene	45.1	10	ug/L	50.00		90	61-116			
Benzo(a)anthracene	44.0	10	ug/L	50.00		88	58-125			
Benzo(a)pyrene	39.2	10	ug/L	50.00		78	54-128			
Benzo(b)fluoranthene	39.0	10	ug/L	50.00		78	53-131			
Benzo(g,h,i)perylene	38.2	10	ug/L	50.00		76	50-134			
Benzo(k)fluoranthene	40.4	10	ug/L	50.00		81	57-129			
Benzoic Acid	BRL	100	ug/L	50.00			10-125			L1
Benzyl alcohol	30.4	10	ug/L	50.00		61	31-112			
bis(2-Chloroethoxy)methane	37.1	10	ug/L	50.00		74	48-120			
Bis(2-Chloroethyl)ether	36.9	10	ug/L	50.00		74	43-118			
Bis(2-chloroisopropyl)ether	37.7	10	ug/L	50.00		75	37-130			
Bis(2-Ethylhexyl)phthalate	44.5	10	ug/L	50.00		89	55-135			
Butyl benzyl phthalate	44.8	10	ug/L	50.00		90	53-134			
Chrysene	43.9	10	ug/L	50.00		88	59-123			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
LCS (P7J0471-BS1)				Prepared & Analyzed: 10/25/17						
Dibenzo(a,h)anthracene	21.7	10	ug/L	50.00		43	51-134			L
Dibenzofuran	40.7	10	ug/L	50.00		81	53-118			
Diethyl phthalate	41.5	10	ug/L	50.00		83	56-125			
Dimethyl phthalate	41.1	10	ug/L	50.00		82	45-127			
Di-n-butyl phthalate	43.8	10	ug/L	50.00		88	59-127			
Di-n-octyl phthalate	39.5	10	ug/L	50.00		79	51-140			
Fluoranthene	45.0	10	ug/L	50.00		90	57-128			
Fluorene	42.6	10	ug/L	50.00		85	52-124			
Hexachlorobenzene	42.0	10	ug/L	50.00		84	53-125			
Hexachlorobutadiene	29.4	10	ug/L	50.00		59	22-124			
Hexachlorocyclopentadiene	26.3	10	ug/L	50.00		53	32-117			
Hexachloroethane	28.1	10	ug/L	50.00		56	21-115			
Indeno(1,2,3-cd)pyrene	42.1	10	ug/L	50.00		84	52-134			
Isophorone	37.3	10	ug/L	50.00		75	42-124			
Naphthalene	35.5	10	ug/L	50.00		71	40-121			
Nitrobenzene	32.8	10	ug/L	50.00		66	45-121			
N-Nitroso-di-n-propylamine	38.8	10	ug/L	50.00		78	49-119			
N-Nitrosodiphenylamine	53.2	10	ug/L	50.00		106	51-123			
Pentachlorophenol	24.3	10	ug/L	50.00		49	35-138			
Phenanthrene	45.9	10	ug/L	50.00		92	59-120			
Phenol	17.6	10	ug/L	50.00		35	12-58			
Pyrene	45.4	10	ug/L	50.00		91	57-126			
Surrogate: 2,4,6-Tribromophenol	*56.1*		*ug/L*	*100.0*		*56*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*42.3*		*ug/L*	*50.00*		*85*	*44-119*			
Surrogate: 2-Fluorophenol	*33.7*		*ug/L*	*100.0*		*34*	*19-119*			
Surrogate: Nitrobenzene-d5	*36.2*		*ug/L*	*50.00*		*72*	*44-120*			
Surrogate: Phenol-d5	*30.2*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*43.6*		*ug/L*	*50.00*		*87*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
LCS Dup (P7J0471-BSD1)				Prepared & Analyzed: 10/25/17						
1,2,4-Trichlorobenzene	32.6	10	ug/L	50.00		65	29-126	7	20	
1,2-Dichlorobenzene	33.9	10	ug/L	50.00		68	32-111	8	20	
1,3-Dichlorobenzene	33.2	10	ug/L	50.00		66	28-110	8	20	
1,4-Dichlorobenzene	33.3	10	ug/L	50.00		67	29-112	9	20	
1-Methylnaphthalene	38.2	10	ug/L	50.00		76	41-119	3	20	
2,4,5-Trichlorophenol	41.6	10	ug/L	50.00		83	53-123	41	20	D
2,4,6-Trichlorophenol	40.6	10	ug/L	50.00		81	50-125	62	20	D
2,4-Dichlorophenol	38.1	10	ug/L	50.00		76	47-121	28	20	D
2,4-Dimethylphenol	46.0	10	ug/L	50.00		92	31-124	1	20	
2,4-Dinitrophenol	36.3	10	ug/L	50.00		73	23-143	74	20	D
2,4-Dinitrotoluene	41.6	10	ug/L	50.00		83	57-128	0.1	20	
2,6-Dinitrotoluene	42.2	10	ug/L	50.00		84	57-124	2	20	
2-Chloronaphthalene	38.8	10	ug/L	50.00		78	40-116	1	20	
2-Chlorophenol	38.7	10	ug/L	50.00		77	38-117	27	20	D
2-Methylnaphthalene	35.7	10	ug/L	50.00		71	40-121	2	20	
2-Methylphenol	39.0	10	ug/L	50.00		78	30-117	9	20	
2-Nitroaniline	41.2	10	ug/L	50.00		82	55-127	2	20	
2-Nitrophenol	37.2	10	ug/L	50.00		74	47-123	36	20	D
3,3'-Dichlorobenzidine	48.9	10	ug/L	50.00		98	27-129	2	20	
3/4-Methylphenol	30.9	10	ug/L	50.00		62	29-110	7	20	
3-Nitroaniline	43.0	10	ug/L	50.00		86	41-128	3	20	
4,6-Dinitro-2-methylphenol	39.6	10	ug/L	50.00		79	44-137	103	20	D
4-Bromophenyl phenyl ether	42.0	10	ug/L	50.00		84	55-124	0.1	20	
4-Chloro-3-methylphenol	38.6	10	ug/L	50.00		77	52-119	2	20	
4-Chloroaniline	39.9	10	ug/L	50.00		80	33-117	4	20	
4-Chlorophenyl phenyl ether	39.8	10	ug/L	50.00		80	53-121	2	20	
4-Nitroaniline	42.9	10	ug/L	50.00		86	45-135	0.5	20	
4-Nitrophenol	17.2	10	ug/L	50.00		34	10-77	98	20	D
Acenaphthene	41.1	10	ug/L	50.00		82	47-122	1	20	
Acenaphthylene	42.7	10	ug/L	50.00		85	41-130	0.7	20	
Aniline	51.7	10	ug/L	50.00		103	12-197	0.3	20	
Anthracene	46.8	10	ug/L	50.00		94	57-123	4	20	
Azobenzene	45.6	10	ug/L	50.00		91	61-116	1	20	
Benzo(a)anthracene	44.8	10	ug/L	50.00		90	58-125	2	20	
Benzo(a)pyrene	39.6	10	ug/L	50.00		79	54-128	1	20	
Benzo(b)fluoranthene	41.0	10	ug/L	50.00		82	53-131	5	20	
Benzo(g,h,i)perylene	38.2	10	ug/L	50.00		76	50-134	0.1	20	
Benzo(k)fluoranthene	38.6	10	ug/L	50.00		77	57-129	5	20	
Benzoic Acid	7.19	100	ug/L	50.00		14	10-125	200	20	D
Benzyl alcohol	32.7	10	ug/L	50.00		65	31-112	7	20	
bis(2-Chloroethoxy)methane	39.3	10	ug/L	50.00		79	48-120	6	20	
Bis(2-Chloroethyl)ether	39.5	10	ug/L	50.00		79	43-118	7	20	
Bis(2-chloroisopropyl)ether	40.4	10	ug/L	50.00		81	37-130	7	20	
Bis(2-Ethylhexyl)phthalate	45.4	10	ug/L	50.00		91	55-135	2	20	
Butyl benzyl phthalate	44.3	10	ug/L	50.00		89	53-134	1	20	
Chrysene	44.2	10	ug/L	50.00		88	59-123	0.7	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
LCS Dup (P7J0471-BSD1)				Prepared & Analyzed: 10/25/17						
Dibenzo(a,h)anthracene	22.0	10	ug/L	50.00		44	51-134	1	20	L
Dibenzofuran	39.3	10	ug/L	50.00		79	53-118	4	20	
Diethyl phthalate	40.9	10	ug/L	50.00		82	56-125	1	20	
Dimethyl phthalate	39.8	10	ug/L	50.00		80	45-127	3	20	
Di-n-butyl phthalate	44.8	10	ug/L	50.00		90	59-127	2	20	
Di-n-octyl phthalate	40.1	10	ug/L	50.00		80	51-140	1	20	
Fluoranthene	45.9	10	ug/L	50.00		92	57-128	2	20	
Fluorene	41.2	10	ug/L	50.00		82	52-124	3	20	
Hexachlorobenzene	42.6	10	ug/L	50.00		85	53-125	2	20	
Hexachlorobutadiene	31.5	10	ug/L	50.00		63	22-124	7	20	
Hexachlorocyclopentadiene	27.1	10	ug/L	50.00		54	32-117	3	20	
Hexachloroethane	31.4	10	ug/L	50.00		63	21-115	11	20	
Indeno(1,2,3-cd)pyrene	42.7	10	ug/L	50.00		85	52-134	1	20	
Isophorone	38.7	10	ug/L	50.00		77	42-124	4	20	
Naphthalene	37.3	10	ug/L	50.00		75	40-121	5	20	
Nitrobenzene	35.7	10	ug/L	50.00		71	45-121	8	20	
N-Nitroso-di-n-propylamine	39.5	10	ug/L	50.00		79	49-119	2	20	
N-Nitrosodiphenylamine	54.3	10	ug/L	50.00		109	51-123	2	20	
Pentachlorophenol	50.4	10	ug/L	50.00		101	35-138	70	20	D
Phenanthrene	46.4	10	ug/L	50.00		93	59-120	1	20	
Phenol	19.9	10	ug/L	50.00		40	12-58	12	20	
Pyrene	45.8	10	ug/L	50.00		92	57-126	0.8	20	
Surrogate: 2,4,6-Tribromophenol	*88.3*		*ug/L*	*100.0*		*88*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*41.6*		*ug/L*	*50.00*		*83*	*44-119*			
Surrogate: 2-Fluorophenol	*57.0*		*ug/L*	*100.0*		*57*	*19-119*			
Surrogate: Nitrobenzene-d5	*38.8*		*ug/L*	*50.00*		*78*	*44-120*			
Surrogate: Phenol-d5	*35.4*		*ug/L*	*100.0*		*35*	*11-52*			
Surrogate: Terphenyl-d14	*44.0*		*ug/L*	*50.00*		*88*	*50-134*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
Matrix Spike (P7J0471-MS1)		**Source: 7100384-01**		Prepared & Analyzed: 10/26/17						
1,2,4-Trichlorobenzene	69.0	20	ug/L	100.0	BRL	69	29-116			
1,2-Dichlorobenzene	69.6	20	ug/L	100.0	BRL	70	32-111			
1,3-Dichlorobenzene	67.7	20	ug/L	100.0	BRL	68	28-110			
1,4-Dichlorobenzene	68.4	20	ug/L	100.0	BRL	68	29-112			
1-Methylnaphthalene	79.2	20	ug/L	100.0	BRL	79	41-119			
2,4,5-Trichlorophenol	89.1	20	ug/L	100.0	BRL	89	53-123			
2,4,6-Trichlorophenol	86.1	20	ug/L	100.0	BRL	86	50-125			
2,4-Dichlorophenol	76.9	20	ug/L	100.0	BRL	77	47-121			
2,4-Dimethylphenol	93.1	20	ug/L	100.0	BRL	93	31-124			
2,4-Dinitrophenol	75.5	20	ug/L	100.0	BRL	76	23-143			
2,4-Dinitrotoluene	85.7	20	ug/L	100.0	BRL	86	57-128			
2,6-Dinitrotoluene	90.5	20	ug/L	100.0	BRL	90	57-124			
2-Chloronaphthalene	83.7	20	ug/L	100.0	BRL	84	40-116			
2-Chlorophenol	76.6	20	ug/L	100.0	BRL	77	38-117			
2-Methylnaphthalene	74.3	20	ug/L	100.0	BRL	74	40-121			
2-Methylphenol	83.6	20	ug/L	100.0	BRL	84	30-117			
2-Nitroaniline	87.6	20	ug/L	100.0	BRL	88	55-127			
2-Nitrophenol	75.1	20	ug/L	100.0	BRL	75	47-123			
3,3'-Dichlorobenzidine	93.7	20	ug/L	100.0	BRL	94	27-129			
3/4-Methylphenol	69.7	20	ug/L	100.0	BRL	70	29-110			
3-Nitroaniline	90.5	20	ug/L	100.0	BRL	90	41-128			
4,6-Dinitro-2-methylphenol	81.0	20	ug/L	100.0	BRL	81	44-137			
4-Bromophenyl phenyl ether	85.3	20	ug/L	100.0	BRL	85	55-124			
4-Chloro-3-methylphenol	81.8	20	ug/L	100.0	BRL	82	52-119			
4-Chloroaniline	81.4	20	ug/L	100.0	BRL	81	33-117			
4-Chlorophenyl phenyl ether	85.3	20	ug/L	100.0	BRL	85	53-121			
4-Nitroaniline	85.9	20	ug/L	100.0	BRL	86	45-135			
4-Nitrophenol	53.8	20	ug/L	100.0	BRL	54	10-105			
Acenaphthene	87.0	20	ug/L	100.0	BRL	87	47-122			
Acenaphthylene	89.1	20	ug/L	100.0	BRL	89	41-130			
Aniline	110	20	ug/L	100.0	BRL	110	11-124			
Anthracene	94.6	20	ug/L	100.0	BRL	95	57-123			
Azobenzene	93.6	20	ug/L	100.0	BRL	94	61-116			
Benzo(a)anthracene	91.5	20	ug/L	100.0	BRL	91	58-125			
Benzo(a)pyrene	79.4	20	ug/L	100.0	BRL	79	54-128			
Benzo(b)fluoranthene	80.0	20	ug/L	100.0	BRL	80	53-131			
Benzo(g,h,i)perylene	77.8	20	ug/L	100.0	BRL	78	50-134			
Benzo(k)fluoranthene	80.4	20	ug/L	100.0	BRL	80	57-129			
Benzoic Acid	55.1	200	ug/L	100.0	BRL	55	10-125			
Benzyl alcohol	74.0	20	ug/L	100.0	BRL	74	31-112			
bis(2-Chloroethoxy)methane	77.4	20	ug/L	100.0	BRL	77	48-120			
Bis(2-Chloroethyl)ether	79.0	20	ug/L	100.0	BRL	79	43-118			
Bis(2-chloroisopropyl)ether	78.3	20	ug/L	100.0	BRL	78	37-130			
Bis(2-Ethylhexyl)phthalate	89.8	20	ug/L	100.0	BRL	90	55-135			
Butyl benzyl phthalate	90.7	20	ug/L	100.0	BRL	91	53-134			
Chrysene	90.2	20	ug/L	100.0	BRL	90	59-123			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch P7J0471 - 3510C MS

Matrix Spike (P7J0471-MS1) **Source: 7100384-01** Prepared & Analyzed: 10/26/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dibenzo(a,h)anthracene	46.4	20	ug/L	100.0	BRL	46	51-134			M
Dibenzofuran	84.4	20	ug/L	100.0	BRL	84	53-118			
Diethyl phthalate	85.4	20	ug/L	100.0	BRL	85	56-125			
Dimethyl phthalate	84.8	20	ug/L	100.0	BRL	85	45-127			
Di-n-butyl phthalate	90.3	20	ug/L	100.0	BRL	90	59-127			
Di-n-octyl phthalate	81.6	20	ug/L	100.0	BRL	82	51-140			
Fluoranthene	92.6	20	ug/L	100.0	BRL	93	57-128			
Fluorene	87.1	20	ug/L	100.0	BRL	87	52-124			
Hexachlorobenzene	87.9	20	ug/L	100.0	BRL	88	53-125			
Hexachlorobutadiene	67.8	20	ug/L	100.0	BRL	68	22-124			
Hexachlorocyclopentadiene	62.4	20	ug/L	100.0	BRL	62	26-122			
Hexachloroethane	64.7	20	ug/L	100.0	BRL	65	21-115			
Indeno(1,2,3-cd)pyrene	87.0	20	ug/L	100.0	BRL	87	52-134			
Isophorone	78.1	20	ug/L	100.0	BRL	78	42-124			
Naphthalene	77.9	20	ug/L	100.0	BRL	78	40-121			
Nitrobenzene	70.7	20	ug/L	100.0	BRL	71	45-121			
N-Nitroso-di-n-propylamine	79.8	20	ug/L	100.0	BRL	80	49-119			
N-Nitrosodiphenylamine	108	20	ug/L	100.0	BRL	108	51-123			
Pentachlorophenol	101	20	ug/L	100.0	BRL	101	35-138			
Phenanthrene	94.6	20	ug/L	100.0	BRL	95	59-120			
Phenol	57.4	20	ug/L	100.0	BRL	57	10-68			
Pyrene	93.6	20	ug/L	100.0	BRL	94	57-126			
Surrogate: 2,4,6-Tribromophenol	*189*		*ug/L*	*200.0*		*94*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*87.8*		*ug/L*	*100.0*		*88*	*44-119*			
Surrogate: 2-Fluorophenol	*140*		*ug/L*	*200.0*		*70*	*19-119*			
Surrogate: Nitrobenzene-d5	*78.1*		*ug/L*	*100.0*		*78*	*44-120*			
Surrogate: Phenol-d5	*106*		*ug/L*	*200.0*		*53*	*11-52*			*M*
Surrogate: Terphenyl-d14	*89.3*		*ug/L*	*100.0*		*89*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0471 - 3510C MS										
Matrix Spike Dup (P7J0471-MSD1)		**Source: 7100384-01**		Prepared & Analyzed: 10/26/17						
1,2,4-Trichlorobenzene	67.1	20	ug/L	100.0	BRL	67	29-116	3	30	
1,2-Dichlorobenzene	66.0	20	ug/L	100.0	BRL	66	32-111	5	50	
1,3-Dichlorobenzene	64.4	20	ug/L	100.0	BRL	64	28-110	5	50	
1,4-Dichlorobenzene	64.7	20	ug/L	100.0	BRL	65	29-112	6	50	
1-Methylnaphthalene	77.2	20	ug/L	100.0	BRL	77	41-119	3	50	
2,4,5-Trichlorophenol	81.0	20	ug/L	100.0	BRL	81	53-123	9	50	
2,4,6-Trichlorophenol	79.8	20	ug/L	100.0	BRL	80	50-125	8	50	
2,4-Dichlorophenol	74.9	20	ug/L	100.0	BRL	75	47-121	3	50	
2,4-Dimethylphenol	89.7	20	ug/L	100.0	BRL	90	31-124	4	50	
2,4-Dinitrophenol	74.7	20	ug/L	100.0	BRL	75	23-143	1	50	
2,4-Dinitrotoluene	80.8	20	ug/L	100.0	BRL	81	57-128	6	50	
2,6-Dinitrotoluene	83.1	20	ug/L	100.0	BRL	83	57-124	9	50	
2-Chloronaphthalene	77.4	20	ug/L	100.0	BRL	77	40-116	8	50	
2-Chlorophenol	72.3	20	ug/L	100.0	BRL	72	38-117	6	50	
2-Methylnaphthalene	71.8	20	ug/L	100.0	BRL	72	40-121	4	50	
2-Methylphenol	79.4	20	ug/L	100.0	BRL	79	30-117	5	50	
2-Nitroaniline	80.3	20	ug/L	100.0	BRL	80	55-127	9	50	
2-Nitrophenol	74.8	20	ug/L	100.0	BRL	75	47-123	0.5	50	
3,3'-Dichlorobenzidine	90.6	20	ug/L	100.0	BRL	91	27-129	3	50	
3/4-Methylphenol	65.0	20	ug/L	100.0	BRL	65	29-110	7	50	
3-Nitroaniline	83.8	20	ug/L	100.0	BRL	84	41-128	8	50	
4,6-Dinitro-2-methylphenol	79.5	20	ug/L	100.0	BRL	80	44-137	2	50	
4-Bromophenyl phenyl ether	81.0	20	ug/L	100.0	BRL	81	55-124	5	50	
4-Chloro-3-methylphenol	81.0	20	ug/L	100.0	BRL	81	52-119	0.9	50	
4-Chloroaniline	79.4	20	ug/L	100.0	BRL	79	33-117	2	50	
4-Chlorophenyl phenyl ether	80.6	20	ug/L	100.0	BRL	81	53-121	6	50	
4-Nitroaniline	84.7	20	ug/L	100.0	BRL	85	45-135	1	50	
4-Nitrophenol	50.4	20	ug/L	100.0	BRL	50	10-105	6	50	
Acenaphthene	81.6	20	ug/L	100.0	BRL	82	47-122	6	50	
Acenaphthylene	83.5	20	ug/L	100.0	BRL	84	41-130	7	50	
Aniline	103	20	ug/L	100.0	BRL	103	11-124	6	50	
Anthracene	90.5	20	ug/L	100.0	BRL	90	57-123	4	50	
Azobenzene	89.2	20	ug/L	100.0	BRL	89	61-116	5	50	
Benzo(a)anthracene	87.3	20	ug/L	100.0	BRL	87	58-125	5	50	
Benzo(a)pyrene	76.2	20	ug/L	100.0	BRL	76	54-128	4	50	
Benzo(b)fluoranthene	76.0	20	ug/L	100.0	BRL	76	53-131	5	50	
Benzo(g,h,i)perylene	73.0	20	ug/L	100.0	BRL	73	50-134	6	50	
Benzo(k)fluoranthene	76.1	20	ug/L	100.0	BRL	76	57-129	5	50	
Benzoic Acid	58.4	200	ug/L	100.0	BRL	58	10-125	6	50	
Benzyl alcohol	66.6	20	ug/L	100.0	BRL	67	31-112	11	50	
bis(2-Chloroethoxy)methane	76.5	20	ug/L	100.0	BRL	76	48-120	1	50	
Bis(2-Chloroethyl)ether	70.1	20	ug/L	100.0	BRL	70	43-118	12	50	
Bis(2-chloroisopropyl)ether	74.3	20	ug/L	100.0	BRL	74	37-130	5	50	
Bis(2-Ethylhexyl)phthalate	86.4	20	ug/L	100.0	BRL	86	55-135	4	50	
Butyl benzyl phthalate	85.2	20	ug/L	100.0	BRL	85	53-134	6	50	
Chrysene	88.8	20	ug/L	100.0	BRL	89	59-123	2	50	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch P7J0471 - 3510C MS

Matrix Spike Dup (P7J0471-MSD1) **Source: 7100384-01** Prepared & Analyzed: 10/26/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Dibenzo(a,h)anthracene	48.4	20	ug/L	100.0	BRL	48	51-134	4	50	M
Dibenzofuran	79.4	20	ug/L	100.0	BRL	79	53-118	6	50	
Diethyl phthalate	80.5	20	ug/L	100.0	BRL	81	56-125	6	50	
Dimethyl phthalate	79.7	20	ug/L	100.0	BRL	80	45-127	6	50	
Di-n-butyl phthalate	85.7	20	ug/L	100.0	BRL	86	59-127	5	50	
Di-n-octyl phthalate	76.2	20	ug/L	100.0	BRL	76	51-140	7	50	
Fluoranthene	88.4	20	ug/L	100.0	BRL	88	57-128	5	50	
Fluorene	82.9	20	ug/L	100.0	BRL	83	52-124	5	50	
Hexachlorobenzene	83.7	20	ug/L	100.0	BRL	84	53-125	5	50	
Hexachlorobutadiene	66.4	20	ug/L	100.0	BRL	66	22-124	2	50	
Hexachlorocyclopentadiene	60.9	20	ug/L	100.0	BRL	61	26-122	2	50	
Hexachloroethane	62.2	20	ug/L	100.0	BRL	62	21-115	4	50	
Indeno(1,2,3-cd)pyrene	83.3	20	ug/L	100.0	BRL	83	52-134	4	50	
Isophorone	75.4	20	ug/L	100.0	BRL	75	42-124	3	50	
Naphthalene	76.9	20	ug/L	100.0	BRL	77	40-121	1	50	
Nitrobenzene	68.4	20	ug/L	100.0	BRL	68	45-121	3	50	
N-Nitroso-di-n-propylamine	75.4	20	ug/L	100.0	BRL	75	49-119	6	50	
N-Nitrosodiphenylamine	103	20	ug/L	100.0	BRL	103	51-123	5	50	
Pentachlorophenol	97.9	20	ug/L	100.0	BRL	98	35-138	3	50	
Phenanthrene	89.7	20	ug/L	100.0	BRL	90	59-120	5	50	
Phenol	53.3	20	ug/L	100.0	BRL	53	10-68	7	50	
Pyrene	88.2	20	ug/L	100.0	BRL	88	57-126	6	50	
Surrogate: 2,4,6-Tribromophenol	*176*		*ug/L*	*200.0*		*88*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*82.9*		*ug/L*	*100.0*		*83*	*44-119*			
Surrogate: 2-Fluorophenol	*134*		*ug/L*	*200.0*		*67*	*19-119*			
Surrogate: Nitrobenzene-d5	*75.8*		*ug/L*	*100.0*		*76*	*44-120*			
Surrogate: Phenol-d5	*99.5*		*ug/L*	*200.0*		*50*	*11-52*			
Surrogate: Terphenyl-d14	*84.5*		*ug/L*	*100.0*		*85*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0401 - 3010A										
Blank (P7J0401-BLK1)				Prepared & Analyzed: 10/23/17						
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0401-BS1)				Prepared & Analyzed: 10/23/17						
Arsenic	0.262	0.010	mg/L	0.2500		105	80-120			
Barium	0.263	0.010	mg/L	0.2500		105	80-120			
Cadmium	0.255	0.0010	mg/L	0.2500		102	80-120			
Chromium	0.261	0.0050	mg/L	0.2500		104	80-120			
Lead	0.257	0.0050	mg/L	0.2500		103	80-120			
Selenium	0.259	0.020	mg/L	0.2500		104	80-120			
Silver	0.0975	0.0050	mg/L	0.1000		97	80-120			
Batch P7J0448 - 7470A										
Blank (P7J0448-BLK1)				Prepared & Analyzed: 10/24/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0448-BS1)				Prepared & Analyzed: 10/24/17						
Mercury	0.00929	0.00020	mg/L	0.009375		99	80-120			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0416 - 3010A										
Blank (P7J0416-BLK1)				Prepared & Analyzed: 10/23/17						
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0416-BS1)				Prepared & Analyzed: 10/23/17						
Arsenic	0.267	0.010	mg/L	0.2500		107	80-120			
Barium	0.259	0.010	mg/L	0.2500		104	80-120			
Cadmium	0.269	0.0010	mg/L	0.2500		108	80-120			
Chromium	0.254	0.0050	mg/L	0.2500		102	80-120			
Lead	0.261	0.0050	mg/L	0.2500		104	80-120			
Selenium	0.287	0.020	mg/L	0.2500		115	80-120			
Silver	0.0996	0.0050	mg/L	0.1000		100	80-120			
Matrix Spike (P7J0416-MS1)		**Source: 7100384-01**		Prepared & Analyzed: 10/23/17						
Arsenic	0.265	0.010	mg/L	0.2500	BRL	106	75-125			
Barium	0.316	0.010	mg/L	0.2500	0.0640	101	75-125			
Cadmium	0.254	0.0010	mg/L	0.2500	BRL	102	75-125			
Chromium	0.248	0.0050	mg/L	0.2500	BRL	99	75-125			
Lead	0.249	0.0050	mg/L	0.2500	0.00217	99	75-125			
Selenium	0.330	0.020	mg/L	0.2500	0.0258	122	75-125			
Silver	0.0715	0.0050	mg/L	0.1000	BRL	72	75-125			MI
Matrix Spike Dup (P7J0416-MSD1)		**Source: 7100384-01**		Prepared & Analyzed: 10/23/17						
Arsenic	0.265	0.010	mg/L	0.2500	BRL	106	75-125	0.2	20	
Barium	0.315	0.010	mg/L	0.2500	0.0640	100	75-125	0.2	20	
Cadmium	0.253	0.0010	mg/L	0.2500	BRL	101	75-125	0.5	20	
Chromium	0.247	0.0050	mg/L	0.2500	BRL	99	75-125	0.2	20	
Lead	0.247	0.0050	mg/L	0.2500	0.00217	98	75-125	0.7	20	
Selenium	0.325	0.020	mg/L	0.2500	0.0258	120	75-125	1	20	
Silver	0.0689	0.0050	mg/L	0.1000	BRL	69	75-125	4	20	MI

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0508 - 7470A										
Blank (P7J0508-BLK1)				Prepared & Analyzed: 10/26/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0508-BS1)				Prepared & Analyzed: 10/26/17						
Mercury	0.00972	0.00020	mg/L	0.009375		104	80-120			
Matrix Spike (P7J0508-MS1)		**Source: 7100384-01**		Prepared & Analyzed: 10/26/17						
Mercury	0.00738	0.00020	mg/L	0.009375	BRL	79	80-120			MI
Matrix Spike Dup (P7J0508-MSD1)		**Source: 7100384-01**		Prepared & Analyzed: 10/26/17						
Mercury	0.00731	0.00020	mg/L	0.009375	BRL	78	80-120	1	20	MI

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0412 - NO PREP										
Blank (P7J0412-BLK1)				Prepared & Analyzed: 10/20/17						
Chloride	BRL	1.0	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P7J0412-BS1)				Prepared & Analyzed: 10/20/17						
Chloride	38.2	1.0	mg/L	40.00		95	80-120			
Sulfate	38.9	1.0	mg/L	40.00		97	80-120			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100384
Time Submitted: 10/19/2017 1:30:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0393 - NO PREP										
LCS (P7J0393-BS1)				Prepared & Analyzed: 10/19/17						
pH	6.90		pH Units	6.880		100	98.5-101.5			
Duplicate (P7J0393-DUP1)		**Source: 7100384-01**		Prepared & Analyzed: 10/19/17						
pH	6.03		pH Units		6.02			0.2	10	

Sample Extraction Data

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100384-01	P7J0416	50 mL	50 mL	10/23/17 12:15

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100384-01	P7J0508	20 mL	30 mL	10/26/17 8:40

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
7100384-01	P7J0471	980 mL	1 mL	10/26/17 8:45

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100384-01	P7J0401	50 mL	50 mL	10/23/17 8:20

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100384-01	P7J0448	20 mL	30 mL	10/24/17 9:30

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
7100384-01	P7J0472	10 mL	10 mL	10/24/17 9:30

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Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ROW-515

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 S. Tryon Street Suite 100
Charlotte NC 28203
Phone: 704.556.0007 Fax (Yes) (No):
Email Address: DGraham@hartbickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte NC

Project Name: Charlotte Gateway Station
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS #44475.1.2
Address:

Purchase Order No./Billing Reference: ROW-515
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-T-7 Observed: 2.9 °C / Corr: 2.4 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ DoD___ FL___ NC X
SC___ OTHER___ N/A___
Water Chlorinated: YES X NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: VOCs-8260	SVOCs-8270	RCRA Metals Only 7471	pH 9040	Chloride 9250	Sulfate 300.0	Dissolved RCRA Metals*	REMARKS	PRISM LAB ID NO.
MW-301	10/19/17	1130	WATER	VOA, AP	8	Varies	None, HCL, HNO3	X	X	X	X	X	X	X	Dissolved RCRA Metals were filtered in the field*	01

Sampler's Signature: Kenneth Windsand Sampled By (Print Name): Kenneth Windsand Affiliation: HHH

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Kenneth Windsand	Received By: (Signature)	10/19/17	13:30
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 10/19/17	13:30

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 710384

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

PRESS DOWN FIRMLY - 3 COPIES

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

Case Narrative

10/11/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 10/03/2017
Prism Work Order: 7100031

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Cara C. Rusmisell For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
SE	Surrogate recovery outside the QC limits due to emulsion.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/11/2017

Prism Work Order: 7100031

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
IDW-Water (MW-1)	7100031-01	Water	10/03/17	10/03/17
IDW-Water (MW-2)	7100031-02	Water	10/03/17	10/03/17
IDW-Water (MW-3)	7100031-03	Water	10/03/17	10/03/17
IDW-Water (MW-4)	7100031-04	Water	10/03/17	10/03/17

Samples were received in good condition at 2.8 degrees C unless otherwise noted.

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Summary of Detections

10/11/2017

Prism Work Order: 7100031

Prism ID	Client ID	Parameter	Method	Result	Units
7100031-01	IDW-Water (MW-1)	Barium	*6010D	0.056	mg/L
7100031-01	IDW-Water (MW-1)	Chloroform	*8260B	2.4	ug/L
7100031-01	IDW-Water (MW-1)	Tetrachloroethylene	*8260B	5.0	ug/L
7100031-02	IDW-Water (MW-2)	Barium	*6010D	0.046	mg/L
7100031-02	IDW-Water (MW-2)	Carbon Tetrachloride	*8260B	3.9	ug/L
7100031-02	IDW-Water (MW-2)	Chloroform	*8260B	6.8	ug/L
7100031-02	IDW-Water (MW-2)	cis-1,2-Dichloroethylene	*8260B	1.5	ug/L
7100031-02	IDW-Water (MW-2)	Tetrachloroethylene	*8260B	24	ug/L
7100031-02	IDW-Water (MW-2)	Trichloroethylene	*8260B	5.9	ug/L
7100031-03	IDW-Water (MW-3)	Barium	*6010D	0.028	mg/L
7100031-03	IDW-Water (MW-3)	Chloroform	*8260B	5.0	ug/L
7100031-03	IDW-Water (MW-3)	Tetrachloroethylene	*8260B	0.69	ug/L
7100031-04	IDW-Water (MW-4)	Barium	*6010D	0.052	mg/L
7100031-04	IDW-Water (MW-4)	Carbon Tetrachloride	*8260B	3.2	ug/L
7100031-04	IDW-Water (MW-4)	Chloroform	*8260B	0.99	ug/L
7100031-04	IDW-Water (MW-4)	Isopropyl Ether	*8260B	2.6	ug/L

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-1)
Prism Sample ID: 7100031-01
Prism Work Order: 7100031
Time Collected: 10/03/17 09:05
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:15	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 19:15	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:15	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:15	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:15	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.96	1	*8270D	10/9/17 19:15	JMV	P7J0137
4-Nitrophenol	BRL	ug/L	10	0.62	1	*8270D	10/9/17 19:15	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:15	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 19:15	JMV	P7J0137
Aniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/9/17 19:15	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	*8270D	10/9/17 19:15	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-1)
Prism Sample ID: 7100031-01
Prism Work Order: 7100031
Time Collected: 10/03/17 09:05
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 19:15	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 19:15	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:15	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:15	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/9/17 19:15	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:15	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	4.0	1	*8270D	10/9/17 19:15	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 19:15	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:15	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 19:15	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:15	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:15	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137
Phenol	BRL	ug/L	10	1.0	1	*8270D	10/9/17 19:15	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:15	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*52 %*	*43-140*
2-Fluorobiphenyl	*83 %*	*44-119*
2-Fluorophenol	*29 %*	*19-119*
Nitrobenzene-d5	*78 %*	*44-120*
Phenol-d5	*19 %*	*11-52*
Terphenyl-d14	*108 %*	*50-134*

Total Metals

Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:55	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 18:10	JAB	P7J0059
Barium	**0.056**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 18:10**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 18:10	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 18:10	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 18:10	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 18:10	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 18:10	JAB	P7J0059

Volatile Organic Compounds by GC/MS

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-1)
Prism Sample ID: 7100031-01
Prism Work Order: 7100031
Time Collected: 10/03/17 09:05
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/5/17 15:51	KDM	P7J0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 15:51	KDM	P7J0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/5/17 15:51	KDM	P7J0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 15:51	KDM	P7J0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 15:51	KDM	P7J0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/5/17 15:51	KDM	P7J0088
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/5/17 15:51	KDM	P7J0088
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/5/17 15:51	KDM	P7J0088
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/5/17 15:51	KDM	P7J0088
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/5/17 15:51	KDM	P7J0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/5/17 15:51	KDM	P7J0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/5/17 15:51	KDM	P7J0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 15:51	KDM	P7J0088
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/5/17 15:51	KDM	P7J0088
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/5/17 15:51	KDM	P7J0088
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/5/17 15:51	KDM	P7J0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 15:51	KDM	P7J0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 15:51	KDM	P7J0088
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/5/17 15:51	KDM	P7J0088
Chloroform	**2.4**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/5/17 15:51**	**KDM**	**P7J0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 15:51	KDM	P7J0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/5/17 15:51	KDM	P7J0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 15:51	KDM	P7J0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/5/17 15:51	KDM	P7J0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/5/17 15:51	KDM	P7J0088

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-1)
Prism Sample ID: 7100031-01
Prism Work Order: 7100031
Time Collected: 10/03/17 09:05
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/5/17 15:51	KDM	P7J0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 15:51	KDM	P7J0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/5/17 15:51	KDM	P7J0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 15:51	KDM	P7J0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 15:51	KDM	P7J0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/5/17 15:51	KDM	P7J0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/5/17 15:51	KDM	P7J0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/5/17 15:51	KDM	P7J0088
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/5/17 15:51	KDM	P7J0088
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/5/17 15:51	KDM	P7J0088
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/5/17 15:51	KDM	P7J0088
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/5/17 15:51	KDM	P7J0088
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/5/17 15:51	KDM	P7J0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/5/17 15:51	KDM	P7J0088
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 15:51	KDM	P7J0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 15:51	KDM	P7J0088
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/5/17 15:51	KDM	P7J0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/5/17 15:51	KDM	P7J0088
Tetrachloroethylene	**5.0**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/5/17 15:51**	**KDM**	**P7J0088**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 15:51	KDM	P7J0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/5/17 15:51	KDM	P7J0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/5/17 15:51	KDM	P7J0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/5/17 15:51	KDM	P7J0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 15:51	KDM	P7J0088
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/5/17 15:51	KDM	P7J0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/5/17 15:51	KDM	P7J0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-2)
Prism Sample ID: 7100031-02
Prism Work Order: 7100031
Time Collected: 10/03/17 09:40
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:37	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 19:37	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:37	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:37	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:37	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.96	1	*8270D	10/9/17 19:37	JMV	P7J0137
4-Nitrophenol	BRL	ug/L	10	0.62	1	*8270D	10/9/17 19:37	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 19:37	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 19:37	JMV	P7J0137
Aniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/9/17 19:37	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	*8270D	10/9/17 19:37	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-2)
Prism Sample ID: 7100031-02
Prism Work Order: 7100031
Time Collected: 10/03/17 09:40
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 19:37	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 19:37	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:37	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:37	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/9/17 19:37	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/9/17 19:37	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	4.0	1	*8270D	10/9/17 19:37	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 19:37	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 19:37	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 19:37	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 19:37	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/9/17 19:37	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137
Phenol	BRL	ug/L	10	1.0	1	*8270D	10/9/17 19:37	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 19:37	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*93 %*	*43-140*
2-Fluorobiphenyl	*84 %*	*44-119*
2-Fluorophenol	*54 %*	*19-119*
Nitrobenzene-d5	*80 %*	*44-120*
Phenol-d5	*34 %*	*11-52*
Terphenyl-d14	*108 %*	*50-134*

Total Metals

Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:59	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 18:19	JAB	P7J0059
Barium	**0.046**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 18:19**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 18:19	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 18:19	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 18:19	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 18:19	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 18:19	JAB	P7J0059

Volatile Organic Compounds by GC/MS

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Hart & Hickman (Charlotte)
Attn: David Graham
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Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-2)
Prism Sample ID: 7100031-02
Prism Work Order: 7100031
Time Collected: 10/03/17 09:40
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/5/17 16:17	KDM	P7J0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 16:17	KDM	P7J0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/5/17 16:17	KDM	P7J0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 16:17	KDM	P7J0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 16:17	KDM	P7J0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/5/17 16:17	KDM	P7J0088
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/5/17 16:17	KDM	P7J0088
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/5/17 16:17	KDM	P7J0088
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/5/17 16:17	KDM	P7J0088
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/5/17 16:17	KDM	P7J0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/5/17 16:17	KDM	P7J0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/5/17 16:17	KDM	P7J0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 16:17	KDM	P7J0088
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/5/17 16:17	KDM	P7J0088
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/5/17 16:17	KDM	P7J0088
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/5/17 16:17	KDM	P7J0088
Carbon Tetrachloride	**3.9**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/5/17 16:17**	**KDM**	**P7J0088**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 16:17	KDM	P7J0088
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/5/17 16:17	KDM	P7J0088
Chloroform	**6.8**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/5/17 16:17**	**KDM**	**P7J0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 16:17	KDM	P7J0088
cis-1,2-Dichloroethylene	**1.5**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**10/5/17 16:17**	**KDM**	**P7J0088**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 16:17	KDM	P7J0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/5/17 16:17	KDM	P7J0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/5/17 16:17	KDM	P7J0088

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-2)
Prism Sample ID: 7100031-02
Prism Work Order: 7100031
Time Collected: 10/03/17 09:40
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/5/17 16:17	KDM	P7J0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 16:17	KDM	P7J0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/5/17 16:17	KDM	P7J0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 16:17	KDM	P7J0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 16:17	KDM	P7J0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/5/17 16:17	KDM	P7J0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/5/17 16:17	KDM	P7J0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/5/17 16:17	KDM	P7J0088
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/5/17 16:17	KDM	P7J0088
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/5/17 16:17	KDM	P7J0088
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/5/17 16:17	KDM	P7J0088
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/5/17 16:17	KDM	P7J0088
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/5/17 16:17	KDM	P7J0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/5/17 16:17	KDM	P7J0088
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 16:17	KDM	P7J0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 16:17	KDM	P7J0088
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/5/17 16:17	KDM	P7J0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/5/17 16:17	KDM	P7J0088
Tetrachloroethylene	**24**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/5/17 16:17**	**KDM**	**P7J0088**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 16:17	KDM	P7J0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/5/17 16:17	KDM	P7J0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/5/17 16:17	KDM	P7J0088
Trichloroethylene	**5.9**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**10/5/17 16:17**	**KDM**	**P7J0088**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 16:17	KDM	P7J0088
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/5/17 16:17	KDM	P7J0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/5/17 16:17	KDM	P7J0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-3)
Prism Sample ID: 7100031-03
Prism Work Order: 7100031
Time Collected: 10/03/17 10:15
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	2.0	1	*8270D	10/9/17 20:00	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.6	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 20:00	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	2.0	1	*8270D	10/9/17 20:00	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:00	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 20:00	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:00	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:00	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.97	1	*8270D	10/9/17 20:00	JMV	P7J0137
4-Nitrophenol	BRL	ug/L	10	0.62	1	*8270D	10/9/17 20:00	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:00	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 20:00	JMV	P7J0137
Aniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.9	1	*8270D	10/9/17 20:00	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/9/17 20:00	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	*8270D	10/9/17 20:00	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-3)
Prism Sample ID: 7100031-03
Prism Work Order: 7100031
Time Collected: 10/03/17 10:15
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.1	1	*8270D	10/9/17 20:00	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 20:00	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:00	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/9/17 20:00	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:00	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	4.1	1	*8270D	10/9/17 20:00	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:00	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:00	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.3	1	*8270D	10/9/17 20:00	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:00	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:00	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137
Phenol	BRL	ug/L	10	1.0	1	*8270D	10/9/17 20:00	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:00	JMV	P7J0137

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*39 %*	*43-140*	*SE*
2-Fluorobiphenyl	*49 %*	*44-119*	
2-Fluorophenol	*17 %*	*19-119*	*SE*
Nitrobenzene-d5	*49 %*	*44-120*	
Phenol-d5	*12 %*	*11-52*	
Terphenyl-d14	*96 %*	*50-134*	

Total Metals

Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 13:03	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 18:27	JAB	P7J0059
Barium	**0.028**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 18:27**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 18:27	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 18:27	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 18:27	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 18:27	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 18:27	JAB	P7J0059

Volatile Organic Compounds by GC/MS

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-3)
Prism Sample ID: 7100031-03
Prism Work Order: 7100031
Time Collected: 10/03/17 10:15
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/5/17 16:43	KDM	P7J0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 16:43	KDM	P7J0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/5/17 16:43	KDM	P7J0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 16:43	KDM	P7J0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 16:43	KDM	P7J0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/5/17 16:43	KDM	P7J0088
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/5/17 16:43	KDM	P7J0088
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/5/17 16:43	KDM	P7J0088
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/5/17 16:43	KDM	P7J0088
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/5/17 16:43	KDM	P7J0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/5/17 16:43	KDM	P7J0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/5/17 16:43	KDM	P7J0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 16:43	KDM	P7J0088
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/5/17 16:43	KDM	P7J0088
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/5/17 16:43	KDM	P7J0088
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/5/17 16:43	KDM	P7J0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 16:43	KDM	P7J0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 16:43	KDM	P7J0088
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/5/17 16:43	KDM	P7J0088
Chloroform	**5.0**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/5/17 16:43**	**KDM**	**P7J0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 16:43	KDM	P7J0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/5/17 16:43	KDM	P7J0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 16:43	KDM	P7J0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/5/17 16:43	KDM	P7J0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/5/17 16:43	KDM	P7J0088

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-3)
Prism Sample ID: 7100031-03
Prism Work Order: 7100031
Time Collected: 10/03/17 10:15
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/5/17 16:43	KDM	P7J0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 16:43	KDM	P7J0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/5/17 16:43	KDM	P7J0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 16:43	KDM	P7J0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 16:43	KDM	P7J0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/5/17 16:43	KDM	P7J0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/5/17 16:43	KDM	P7J0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/5/17 16:43	KDM	P7J0088
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/5/17 16:43	KDM	P7J0088
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/5/17 16:43	KDM	P7J0088
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/5/17 16:43	KDM	P7J0088
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/5/17 16:43	KDM	P7J0088
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/5/17 16:43	KDM	P7J0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/5/17 16:43	KDM	P7J0088
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 16:43	KDM	P7J0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 16:43	KDM	P7J0088
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/5/17 16:43	KDM	P7J0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/5/17 16:43	KDM	P7J0088
Tetrachloroethylene	**0.69**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/5/17 16:43**	**KDM**	**P7J0088**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 16:43	KDM	P7J0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/5/17 16:43	KDM	P7J0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/5/17 16:43	KDM	P7J0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/5/17 16:43	KDM	P7J0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 16:43	KDM	P7J0088
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/5/17 16:43	KDM	P7J0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/5/17 16:43	KDM	P7J0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-4)
Prism Sample ID: 7100031-04
Prism Work Order: 7100031
Time Collected: 10/03/17 10:50
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:23	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:23	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 20:23	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 20:23	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:23	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.94	1	*8270D	10/9/17 20:23	JMV	P7J0137
4-Nitrophenol	BRL	ug/L	10	0.61	1	*8270D	10/9/17 20:23	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:23	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 20:23	JMV	P7J0137
Aniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/9/17 20:23	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	10/9/17 20:23	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-4)
Prism Sample ID: 7100031-04
Prism Work Order: 7100031
Time Collected: 10/03/17 10:50
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 20:23	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 20:23	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:23	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 20:23	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/9/17 20:23	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 20:23	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/9/17 20:23	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	10/9/17 20:23	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 20:23	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 20:23	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/9/17 20:23	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:23	JMV	P7J0137
Phenol	BRL	ug/L	10	0.99	1	*8270D	10/9/17 20:23	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 20:23	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*93 %*	*43-140*
2-Fluorobiphenyl	*83 %*	*44-119*
2-Fluorophenol	*46 %*	*19-119*
Nitrobenzene-d5	*75 %*	*44-120*
Phenol-d5	*31 %*	*11-52*
Terphenyl-d14	*112 %*	*50-134*

Total Metals

Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 13:06	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 18:36	JAB	P7J0059
Barium	**0.052**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 18:36**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 18:36	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 18:36	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 18:36	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 18:36	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 18:36	JAB	P7J0059

Volatile Organic Compounds by GC/MS

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-4)
Prism Sample ID: 7100031-04
Prism Work Order: 7100031
Time Collected: 10/03/17 10:50
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/5/17 17:08	KDM	P7J0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 17:08	KDM	P7J0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/5/17 17:08	KDM	P7J0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/5/17 17:08	KDM	P7J0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/5/17 17:08	KDM	P7J0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/5/17 17:08	KDM	P7J0088
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/5/17 17:08	KDM	P7J0088
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/5/17 17:08	KDM	P7J0088
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/5/17 17:08	KDM	P7J0088
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/5/17 17:08	KDM	P7J0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/5/17 17:08	KDM	P7J0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/5/17 17:08	KDM	P7J0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 17:08	KDM	P7J0088
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/5/17 17:08	KDM	P7J0088
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/5/17 17:08	KDM	P7J0088
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/5/17 17:08	KDM	P7J0088
Carbon Tetrachloride	**3.2**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/5/17 17:08**	**KDM**	**P7J0088**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 17:08	KDM	P7J0088
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/5/17 17:08	KDM	P7J0088
Chloroform	**0.99**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/5/17 17:08**	**KDM**	**P7J0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 17:08	KDM	P7J0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/5/17 17:08	KDM	P7J0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/5/17 17:08	KDM	P7J0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/5/17 17:08	KDM	P7J0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/5/17 17:08	KDM	P7J0088

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: IDW-Water (MW-4)
Prism Sample ID: 7100031-04
Prism Work Order: 7100031
Time Collected: 10/03/17 10:50
Time Submitted: 10/03/17 11:48

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/5/17 17:08	KDM	P7J0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/5/17 17:08	KDM	P7J0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/5/17 17:08	KDM	P7J0088
Isopropyl Ether	**2.6**	**ug/L**	**0.50**	**0.050**	**1**	***8260B**	**10/5/17 17:08**	**KDM**	**P7J0088**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/5/17 17:08	KDM	P7J0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/5/17 17:08	KDM	P7J0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/5/17 17:08	KDM	P7J0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/5/17 17:08	KDM	P7J0088
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/5/17 17:08	KDM	P7J0088
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/5/17 17:08	KDM	P7J0088
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/5/17 17:08	KDM	P7J0088
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/5/17 17:08	KDM	P7J0088
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/5/17 17:08	KDM	P7J0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/5/17 17:08	KDM	P7J0088
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 17:08	KDM	P7J0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/5/17 17:08	KDM	P7J0088
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/5/17 17:08	KDM	P7J0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/5/17 17:08	KDM	P7J0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	10/5/17 17:08	KDM	P7J0088
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/5/17 17:08	KDM	P7J0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/5/17 17:08	KDM	P7J0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/5/17 17:08	KDM	P7J0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/5/17 17:08	KDM	P7J0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/5/17 17:08	KDM	P7J0088
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/5/17 17:08	KDM	P7J0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/5/17 17:08	KDM	P7J0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0088 - 5030B										
Blank (P7J0088-BLK1)				Prepared & Analyzed: 10/05/17						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0088 - 5030B										
Blank (P7J0088-BLK1)				Prepared & Analyzed: 10/05/17						
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*50.5*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.00*		*98*	*77-123*			
LCS (P7J0088-BS1)				Prepared & Analyzed: 10/05/17						
1,1,1,2-Tetrachloroethane	18.3	0.50	ug/L	20.00		92	79-134			
1,1,1-Trichloroethane	19.6	0.50	ug/L	20.00		98	75-136			
1,1,2,2-Tetrachloroethane	19.1	0.50	ug/L	20.00		96	62-127			
1,1,2-Trichloroethane	20.0	0.50	ug/L	20.00		100	70-140			
1,1-Dichloroethane	20.3	0.50	ug/L	20.00		101	78-130			
1,1-Dichloroethylene	20.0	0.50	ug/L	20.00		100	70-154			
1,1-Dichloropropylene	18.5	0.50	ug/L	20.00		92	71-136			
1,2,3-Trichlorobenzene	19.9	2.0	ug/L	20.00		99	58-144			
1,2,3-Trichloropropane	19.6	1.0	ug/L	20.00		98	71-127			
1,2,4-Trichlorobenzene	19.2	1.0	ug/L	20.00		96	66-139			
1,2,4-Trimethylbenzene	20.3	0.50	ug/L	20.00		102	75-133			
1,2-Dibromo-3-chloropropane	18.7	2.0	ug/L	20.00		94	63-134			
1,2-Dibromoethane	21.7	0.50	ug/L	20.00		109	77-135			
1,2-Dichlorobenzene	19.9	0.50	ug/L	20.00		100	78-128			
1,2-Dichloroethane	20.3	0.50	ug/L	20.00		101	68-131			
1,2-Dichloropropane	19.4	0.50	ug/L	20.00		97	77-130			
1,3,5-Trimethylbenzene	20.2	0.50	ug/L	20.00		101	75-131			
1,3-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	77-125			
1,3-Dichloropropane	19.4	0.50	ug/L	20.00		97	76-132			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0088 - 5030B										
LCS (P7J0088-BS1)				Prepared & Analyzed: 10/05/17						
1,4-Dichlorobenzene	18.9	0.50	ug/L	20.00		94	75-126			
2,2-Dichloropropane	22.0	2.0	ug/L	20.00		110	29-149			
2-Chlorotoluene	19.8	0.50	ug/L	20.00		99	74-126			
4-Chlorotoluene	19.6	0.50	ug/L	20.00		98	78-129			
4-Isopropyltoluene	20.0	0.50	ug/L	20.00		100	69-132			
Acetone	39.5	5.0	ug/L	40.00		99	40-166			
Acrolein	55.4	20	ug/L	40.00		139	70-130			LH
Acrylonitrile	41.8	20	ug/L	40.00		105	81-127			
Benzene	20.3	0.50	ug/L	20.00		102	77-128			
Bromobenzene	19.8	0.50	ug/L	20.00		99	78-129			
Bromochloromethane	20.5	0.50	ug/L	20.00		102	78-135			
Bromodichloromethane	21.1	0.50	ug/L	20.00		105	76-138			
Bromoform	17.0	1.0	ug/L	20.00		85	71-135			
Bromomethane	22.0	1.0	ug/L	20.00		110	41-168			
Carbon disulfide	21.4	5.0	ug/L	20.00		107	59-135			
Carbon Tetrachloride	19.3	0.50	ug/L	20.00		97	72-142			
Chlorobenzene	20.0	0.50	ug/L	20.00		100	78-119			
Chloroethane	19.6	0.50	ug/L	20.00		98	57-142			
Chloroform	20.2	0.50	ug/L	20.00		101	77-130			
Chloromethane	23.4	0.50	ug/L	20.00		117	47-145			
cis-1,2-Dichloroethylene	20.0	0.50	ug/L	20.00		100	76-141			
cis-1,3-Dichloropropylene	19.0	0.50	ug/L	20.00		95	65-140			
Dibromochloromethane	18.0	0.50	ug/L	20.00		90	75-134			
Dibromomethane	20.1	0.50	ug/L	20.00		100	76-138			
Dichlorodifluoromethane	29.6	1.0	ug/L	20.00		148	28-163			
Ethylbenzene	20.3	0.50	ug/L	20.00		101	80-127			
Hexachlorobutadiene	19.6	2.0	ug/L	20.00		98	61-134			
Isopropyl Ether	19.8	0.50	ug/L	20.00		99	60-154			
Isopropylbenzene (Cumene)	19.9	0.50	ug/L	20.00		100	70-130			
m,p-Xylenes	42.2	1.0	ug/L	40.00		105	77-133			
Methyl Butyl Ketone (2-Hexanone)	21.9	5.0	ug/L	20.00		110	64-137			
Methyl Ethyl Ketone (2-Butanone)	20.3	5.0	ug/L	20.00		102	71-134			
Methyl Isobutyl Ketone	22.2	5.0	ug/L	20.00		111	69-134			
Methylene Chloride	18.4	1.0	ug/L	20.00		92	73-131			
Methyl-tert-Butyl Ether	21.3	0.50	ug/L	20.00		107	68-135			
Naphthalene	20.8	1.0	ug/L	20.00		104	64-136			
n-Butylbenzene	20.4	1.0	ug/L	20.00		102	68-134			
n-Propylbenzene	19.7	0.50	ug/L	20.00		98	72-132			
o-Xylene	20.3	0.50	ug/L	20.00		101	78-128			
sec-Butylbenzene	19.9	0.50	ug/L	20.00		100	71-131			
Styrene	19.3	0.50	ug/L	20.00		97	78-129			
tert-Butylbenzene	19.4	0.50	ug/L	20.00		97	70-132			
Tetrachloroethylene	19.6	0.50	ug/L	20.00		98	80-129			
Toluene	20.4	0.50	ug/L	20.00		102	76-131			
trans-1,2-Dichloroethylene	21.0	0.50	ug/L	20.00		105	76-135			
trans-1,3-Dichloropropylene	18.2	0.50	ug/L	20.00		91	67-140			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0088 - 5030B										
LCS (P7J0088-BS1)				Prepared & Analyzed: 10/05/17						
Trichloroethylene	20.0	0.50	ug/L	20.00		100	77-133			
Trichlorofluoromethane	21.8	0.50	ug/L	20.00		109	62-148			
Vinyl acetate	23.7	2.0	ug/L	20.00		119	34-167			
Vinyl chloride	25.1	0.50	ug/L	20.00		125	57-141			
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50.00*		*99*	*80-124*			
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.00*		*99*	*75-129*			
Surrogate: Toluene-d8	*49.3*		*ug/L*	*50.00*		*99*	*77-123*			
LCS Dup (P7J0088-BSD1)				Prepared & Analyzed: 10/05/17						
1,1,1,2-Tetrachloroethane	17.8	0.50	ug/L	20.00		89	79-134	3	20	
1,1,1-Trichloroethane	19.1	0.50	ug/L	20.00		95	75-136	3	20	
1,1,2,2-Tetrachloroethane	18.5	0.50	ug/L	20.00		93	62-127	3	20	
1,1,2-Trichloroethane	19.8	0.50	ug/L	20.00		99	70-140	1	20	
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		100	78-130	2	20	
1,1-Dichloroethylene	19.5	0.50	ug/L	20.00		97	70-154	2	20	
1,1-Dichloropropylene	18.0	0.50	ug/L	20.00		90	71-136	2	20	
1,2,3-Trichlorobenzene	20.4	2.0	ug/L	20.00		102	58-144	2	20	
1,2,3-Trichloropropane	19.1	1.0	ug/L	20.00		95	71-127	3	20	
1,2,4-Trichlorobenzene	19.5	1.0	ug/L	20.00		98	66-139	2	20	
1,2,4-Trimethylbenzene	19.7	0.50	ug/L	20.00		98	75-133	3	20	
1,2-Dibromo-3-chloropropane	18.3	2.0	ug/L	20.00		92	63-134	2	20	
1,2-Dibromoethane	21.8	0.50	ug/L	20.00		109	77-135	0.6	20	
1,2-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	78-128	4	20	
1,2-Dichloroethane	19.9	0.50	ug/L	20.00		100	68-131	2	20	
1,2-Dichloropropane	19.4	0.50	ug/L	20.00		97	77-130	0.4	20	
1,3,5-Trimethylbenzene	19.5	0.50	ug/L	20.00		98	75-131	3	20	
1,3-Dichlorobenzene	19.0	0.50	ug/L	20.00		95	77-125	5	20	
1,3-Dichloropropane	19.0	0.50	ug/L	20.00		95	76-132	2	20	
1,4-Dichlorobenzene	18.6	0.50	ug/L	20.00		93	75-126	2	20	
2,2-Dichloropropane	21.4	2.0	ug/L	20.00		107	29-149	3	20	
2-Chlorotoluene	19.2	0.50	ug/L	20.00		96	74-126	3	20	
4-Chlorotoluene	18.9	0.50	ug/L	20.00		94	78-129	4	20	
4-Isopropyltoluene	19.4	0.50	ug/L	20.00		97	69-132	4	20	
Acetone	43.2	5.0	ug/L	40.00		108	40-166	9	20	
Acrolein	53.3	20	ug/L	40.00		133	70-130	4	20	LH
Acrylonitrile	41.4	20	ug/L	40.00		104	81-127	1	20	
Benzene	19.9	0.50	ug/L	20.00		100	77-128	2	20	
Bromobenzene	19.1	0.50	ug/L	20.00		96	78-129	3	20	
Bromochloromethane	20.3	0.50	ug/L	20.00		101	78-135	0.9	20	
Bromodichloromethane	20.8	0.50	ug/L	20.00		104	76-138	1	20	
Bromoform	16.6	1.0	ug/L	20.00		83	71-135	3	20	
Bromomethane	21.3	1.0	ug/L	20.00		107	41-168	3	20	
Carbon disulfide	20.8	5.0	ug/L	20.00		104	59-135	3	20	
Carbon Tetrachloride	19.1	0.50	ug/L	20.00		95	72-142	1	20	
Chlorobenzene	19.4	0.50	ug/L	20.00		97	78-119	3	20	
Chloroethane	18.6	0.50	ug/L	20.00		93	57-142	5	20	
Chloroform	20.0	0.50	ug/L	20.00		100	77-130	1	20	

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0088 - 5030B										
LCS Dup (P7J0088-BSD1)				Prepared & Analyzed: 10/05/17						
Chloromethane	22.1	0.50	ug/L	20.00		110	47-145	6	20	
cis-1,2-Dichloroethylene	19.9	0.50	ug/L	20.00		100	76-141	0.6	20	
cis-1,3-Dichloropropylene	19.1	0.50	ug/L	20.00		95	65-140	0.2	20	
Dibromochloromethane	17.9	0.50	ug/L	20.00		89	75-134	0.8	20	
Dibromomethane	20.1	0.50	ug/L	20.00		100	76-138	0.05	20	
Dichlorodifluoromethane	28.7	1.0	ug/L	20.00		144	28-163	3	20	
Ethylbenzene	19.7	0.50	ug/L	20.00		99	80-127	3	20	
Hexachlorobutadiene	19.8	2.0	ug/L	20.00		99	61-134	0.9	20	
Isopropyl Ether	19.4	0.50	ug/L	20.00		97	60-154	2	20	
Isopropylbenzene (Cumene)	19.1	0.50	ug/L	20.00		95	70-130	4	20	
m,p-Xylenes	40.6	1.0	ug/L	40.00		102	77-133	4	20	
Methyl Butyl Ketone (2-Hexanone)	22.2	5.0	ug/L	20.00		111	64-137	1	20	
Methyl Ethyl Ketone (2-Butanone)	19.7	5.0	ug/L	20.00		99	71-134	3	20	
Methyl Isobutyl Ketone	21.7	5.0	ug/L	20.00		108	69-134	2	20	
Methylene Chloride	18.2	1.0	ug/L	20.00		91	73-131	1	20	
Methyl-tert-Butyl Ether	21.0	0.50	ug/L	20.00		105	68-135	1	20	
Naphthalene	21.0	1.0	ug/L	20.00		105	64-136	1	20	
n-Butylbenzene	19.9	1.0	ug/L	20.00		100	68-134	2	20	
n-Propylbenzene	19.0	0.50	ug/L	20.00		95	72-132	3	20	
o-Xylene	19.8	0.50	ug/L	20.00		99	78-128	2	20	
sec-Butylbenzene	19.1	0.50	ug/L	20.00		95	71-131	4	20	
Styrene	18.8	0.50	ug/L	20.00		94	78-129	3	20	
tert-Butylbenzene	18.5	0.50	ug/L	20.00		92	70-132	5	20	
Tetrachloroethylene	19.0	0.50	ug/L	20.00		95	80-129	3	20	
Toluene	19.8	0.50	ug/L	20.00		99	76-131	3	20	
trans-1,2-Dichloroethylene	20.8	0.50	ug/L	20.00		104	76-135	1	20	
trans-1,3-Dichloropropylene	18.2	0.50	ug/L	20.00		91	67-140	0.4	20	
Trichloroethylene	19.5	0.50	ug/L	20.00		97	77-133	3	20	
Trichlorofluoromethane	21.5	0.50	ug/L	20.00		108	62-148	1	20	
Vinyl acetate	23.1	2.0	ug/L	20.00		116	34-167	2	20	
Vinyl chloride	24.9	0.50	ug/L	20.00		125	57-141	0.7	20	
Surrogate: 4-Bromofluorobenzene	*49.1*		*ug/L*	*50.00*		*98*	*80-124*			
Surrogate: Dibromofluoromethane	*50.7*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*49.3*		*ug/L*	*50.00*		*99*	*77-123*			

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
Blank (P7J0137-BLK1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
Blank (P7J0137-BLK1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*108*		*ug/L*	*100.0*		*108*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*47.1*		*ug/L*	*50.00*		*94*	*44-119*			
Surrogate: 2-Fluorophenol	*66.0*		*ug/L*	*100.0*		*66*	*19-119*			
Surrogate: Nitrobenzene-d5	*50.0*		*ug/L*	*50.00*		*100*	*44-120*			
Surrogate: Phenol-d5	*41.1*		*ug/L*	*100.0*		*41*	*11-52*			
Surrogate: Terphenyl-d14	*66.8*		*ug/L*	*50.00*		*134*	*50-134*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS (P7J0137-BS1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	40.4	10	ug/L	100.0		40	29-126			
1,2-Dichlorobenzene	47.9	10	ug/L	100.0		48	32-111			
1,3-Dichlorobenzene	45.8	10	ug/L	100.0		46	28-110			
1,4-Dichlorobenzene	45.2	10	ug/L	100.0		45	29-112			
1-Methylnaphthalene	48.7	10	ug/L	100.0		49	41-119			
2,4,5-Trichlorophenol	65.9	10	ug/L	100.0		66	53-123			
2,4,6-Trichlorophenol	63.7	10	ug/L	100.0		64	50-125			
2,4-Dichlorophenol	51.2	10	ug/L	100.0		51	47-121			
2,4-Dimethylphenol	60.7	10	ug/L	100.0		61	31-124			
2,4-Dinitrophenol	51.6	10	ug/L	100.0		52	23-143			
2,4-Dinitrotoluene	65.6	10	ug/L	100.0		66	57-128			
2,6-Dinitrotoluene	67.1	10	ug/L	100.0		67	57-124			
2-Chloronaphthalene	58.2	10	ug/L	100.0		58	40-116			
2-Chlorophenol	60.1	10	ug/L	100.0		60	38-117			
2-Methylnaphthalene	46.9	10	ug/L	100.0		47	40-121			
2-Methylphenol	58.7	10	ug/L	100.0		59	30-117			
2-Nitroaniline	63.8	10	ug/L	100.0		64	55-127			
2-Nitrophenol	50.4	10	ug/L	100.0		50	47-123			
3,3'-Dichlorobenzidine	68.8	10	ug/L	100.0		69	27-129			
3/4-Methylphenol	46.7	10	ug/L	100.0		47	29-110			
3-Nitroaniline	68.1	10	ug/L	100.0		68	41-128			
4,6-Dinitro-2-methylphenol	58.3	10	ug/L	100.0		58	44-137			
4-Bromophenyl phenyl ether	58.7	10	ug/L	100.0		59	55-124			
4-Chloro-3-methylphenol	55.1	10	ug/L	100.0		55	52-119			
4-Chloroaniline	61.8	10	ug/L	100.0		62	33-117			
4-Chlorophenyl phenyl ether	60.4	10	ug/L	100.0		60	53-121			
4-Nitroaniline	70.0	10	ug/L	100.0		70	45-135			
4-Nitrophenol	27.4	10	ug/L	100.0		27	10-77			
Acenaphthene	61.0	10	ug/L	100.0		61	47-122			
Acenaphthylene	63.6	10	ug/L	100.0		64	41-130			
Aniline	130	10	ug/L	100.0		130	12-197			
Anthracene	66.1	10	ug/L	100.0		66	57-123			
Azobenzene	62.4	10	ug/L	100.0		62	61-116			
Benzo(a)anthracene	64.6	10	ug/L	100.0		65	58-125			
Benzo(a)pyrene	63.1	10	ug/L	100.0		63	54-128			
Benzo(b)fluoranthene	61.8	10	ug/L	100.0		62	53-131			
Benzo(g,h,i)perylene	62.6	10	ug/L	100.0		63	50-134			
Benzo(k)fluoranthene	64.0	10	ug/L	100.0		64	57-129			
Benzoic Acid	15.3	100	ug/L	100.0		15	10-125			
Benzyl alcohol	56.9	10	ug/L	100.0		57	31-112			
bis(2-Chloroethoxy)methane	50.8	10	ug/L	100.0		51	48-120			
Bis(2-Chloroethyl)ether	56.9	10	ug/L	100.0		57	43-118			
Bis(2-chloroisopropyl)ether	57.3	10	ug/L	100.0		57	37-130			
Bis(2-Ethylhexyl)phthalate	67.6	10	ug/L	100.0		68	55-135			
Butyl benzyl phthalate	66.8	10	ug/L	100.0		67	53-134			
Chrysene	70.9	10	ug/L	100.0		71	59-123			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS (P7J0137-BS1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	76.0	10	ug/L	100.0		76	51-134			
Dibenzofuran	63.0	10	ug/L	100.0		63	53-118			
Diethyl phthalate	64.0	10	ug/L	100.0		64	56-125			
Dimethyl phthalate	64.2	10	ug/L	100.0		64	45-127			
Di-n-butyl phthalate	65.6	10	ug/L	100.0		66	59-127			
Di-n-octyl phthalate	64.5	10	ug/L	100.0		64	51-140			
Fluoranthene	64.8	10	ug/L	100.0		65	57-128			
Fluorene	62.3	10	ug/L	100.0		62	52-124			
Hexachlorobenzene	62.2	10	ug/L	100.0		62	53-125			
Hexachlorobutadiene	38.3	10	ug/L	100.0		38	22-124			
Hexachlorocyclopentadiene	41.3	10	ug/L	100.0		41	32-117			
Hexachloroethane	41.1	10	ug/L	100.0		41	21-115			
Indeno(1,2,3-cd)pyrene	58.8	10	ug/L	100.0		59	52-134			
Isophorone	56.6	10	ug/L	100.0		57	42-124			
Naphthalene	47.8	10	ug/L	100.0		48	40-121			
Nitrobenzene	46.8	10	ug/L	100.0		47	45-121			
N-Nitroso-di-n-propylamine	64.7	10	ug/L	100.0		65	49-119			
N-Nitrosodiphenylamine	78.8	10	ug/L	100.0		79	51-123			
Pentachlorophenol	68.2	10	ug/L	100.0		68	35-138			
Phenanthrene	65.1	10	ug/L	100.0		65	59-120			
Phenol	25.5	10	ug/L	100.0		26	12-58			
Pyrene	65.8	10	ug/L	100.0		66	57-126			
Surrogate: 2,4,6-Tribromophenol	*142*		*ug/L*	*200.0*		*71*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*61.1*		*ug/L*	*100.0*		*61*	*44-119*			
Surrogate: 2-Fluorophenol	*84.1*		*ug/L*	*200.0*		*42*	*19-119*			
Surrogate: Nitrobenzene-d5	*53.8*		*ug/L*	*100.0*		*54*	*44-120*			
Surrogate: Phenol-d5	*52.8*		*ug/L*	*200.0*		*26*	*11-52*			
Surrogate: Terphenyl-d14	*77.2*		*ug/L*	*100.0*		*77*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS Dup (P7J0137-BSD1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	37.7	10	ug/L	100.0		38	29-126	7	20	
1,2-Dichlorobenzene	43.4	10	ug/L	100.0		43	32-111	10	20	
1,3-Dichlorobenzene	41.6	10	ug/L	100.0		42	28-110	10	20	
1,4-Dichlorobenzene	41.3	10	ug/L	100.0		41	29-112	9	20	
1-Methylnaphthalene	45.4	10	ug/L	100.0		45	41-119	7	20	
2,4,5-Trichlorophenol	63.3	10	ug/L	100.0		63	53-123	4	20	
2,4,6-Trichlorophenol	60.3	10	ug/L	100.0		60	50-125	6	20	
2,4-Dichlorophenol	49.0	10	ug/L	100.0		49	47-121	4	20	
2,4-Dimethylphenol	56.8	10	ug/L	100.0		57	31-124	7	20	
2,4-Dinitrophenol	50.9	10	ug/L	100.0		51	23-143	1	20	
2,4-Dinitrotoluene	63.6	10	ug/L	100.0		64	57-128	3	20	
2,6-Dinitrotoluene	64.1	10	ug/L	100.0		64	57-124	5	20	
2-Chloronaphthalene	54.1	10	ug/L	100.0		54	40-116	7	20	
2-Chlorophenol	56.0	10	ug/L	100.0		56	38-117	7	20	
2-Methylnaphthalene	43.5	10	ug/L	100.0		44	40-121	8	20	
2-Methylphenol	54.2	10	ug/L	100.0		54	30-117	8	20	
2-Nitroaniline	63.0	10	ug/L	100.0		63	55-127	1	20	
2-Nitrophenol	47.7	10	ug/L	100.0		48	47-123	6	20	
3,3'-Dichlorobenzidine	69.3	10	ug/L	100.0		69	27-129	0.8	20	
3/4-Methylphenol	43.9	10	ug/L	100.0		44	29-110	6	20	
3-Nitroaniline	66.2	10	ug/L	100.0		66	41-128	3	20	
4,6-Dinitro-2-methylphenol	57.8	10	ug/L	100.0		58	44-137	0.9	20	
4-Bromophenyl phenyl ether	58.0	10	ug/L	100.0		58	55-124	1	20	
4-Chloro-3-methylphenol	51.9	10	ug/L	100.0		52	52-119	6	20	L2
4-Chloroaniline	60.9	10	ug/L	100.0		61	33-117	2	20	
4-Chlorophenyl phenyl ether	57.1	10	ug/L	100.0		57	53-121	6	20	
4-Nitroaniline	66.6	10	ug/L	100.0		67	45-135	5	20	
4-Nitrophenol	25.9	10	ug/L	100.0		26	10-77	6	20	
Acenaphthene	57.6	10	ug/L	100.0		58	47-122	6	20	
Acenaphthylene	59.5	10	ug/L	100.0		60	41-130	7	20	
Aniline	128	10	ug/L	100.0		128	12-197	1	20	
Anthracene	65.5	10	ug/L	100.0		65	57-123	1	20	
Azobenzene	60.6	10	ug/L	100.0		61	61-116	3	20	L2
Benzo(a)anthracene	63.8	10	ug/L	100.0		64	58-125	1	20	
Benzo(a)pyrene	60.8	10	ug/L	100.0		61	54-128	4	20	
Benzo(b)fluoranthene	60.1	10	ug/L	100.0		60	53-131	3	20	
Benzo(g,h,i)perylene	61.0	10	ug/L	100.0		61	50-134	3	20	
Benzo(k)fluoranthene	62.1	10	ug/L	100.0		62	57-129	3	20	
Benzoic Acid	6.32	100	ug/L	100.0		6	10-125	83	20	D, L2
Benzyl alcohol	53.0	10	ug/L	100.0		53	31-112	7	20	
bis(2-Chloroethoxy)methane	47.7	10	ug/L	100.0		48	48-120	6	20	L2
Bis(2-Chloroethyl)ether	53.8	10	ug/L	100.0		54	43-118	6	20	
Bis(2-chloroisopropyl)ether	52.8	10	ug/L	100.0		53	37-130	8	20	
Bis(2-Ethylhexyl)phthalate	66.7	10	ug/L	100.0		67	55-135	1	20	
Butyl benzyl phthalate	65.6	10	ug/L	100.0		66	53-134	2	20	
Chrysene	66.7	10	ug/L	100.0		67	59-123	6	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS Dup (P7J0137-BSD1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	39.4	10	ug/L	100.0		39	51-134	63	20	D, L2
Dibenzofuran	59.9	10	ug/L	100.0		60	53-118	5	20	
Diethyl phthalate	62.0	10	ug/L	100.0		62	56-125	3	20	
Dimethyl phthalate	62.2	10	ug/L	100.0		62	45-127	3	20	
Di-n-butyl phthalate	65.4	10	ug/L	100.0		65	59-127	0.4	20	
Di-n-octyl phthalate	62.8	10	ug/L	100.0		63	51-140	3	20	
Fluoranthene	64.0	10	ug/L	100.0		64	57-128	1	20	
Fluorene	59.9	10	ug/L	100.0		60	52-124	4	20	
Hexachlorobenzene	62.3	10	ug/L	100.0		62	53-125	0.2	20	
Hexachlorobutadiene	34.2	10	ug/L	100.0		34	22-124	11	20	
Hexachlorocyclopentadiene	39.3	10	ug/L	100.0		39	32-117	5	20	
Hexachloroethane	36.3	10	ug/L	100.0		36	21-115	12	20	
Indeno(1,2,3-cd)pyrene	65.7	10	ug/L	100.0		66	52-134	11	20	
Isophorone	53.0	10	ug/L	100.0		53	42-124	7	20	
Naphthalene	44.8	10	ug/L	100.0		45	40-121	7	20	
Nitrobenzene	44.5	10	ug/L	100.0		45	45-121	5	20	L2
N-Nitroso-di-n-propylamine	58.6	10	ug/L	100.0		59	49-119	10	20	
N-Nitrosodiphenylamine	77.2	10	ug/L	100.0		77	51-123	2	20	
Pentachlorophenol	67.5	10	ug/L	100.0		68	35-138	1	20	
Phenanthrene	64.9	10	ug/L	100.0		65	59-120	0.3	20	
Phenol	24.2	10	ug/L	100.0		24	12-58	6	20	
Pyrene	65.9	10	ug/L	100.0		66	57-126	0.1	20	
Surrogate: 2,4,6-Tribromophenol	*132*		*ug/L*	*200.0*		*66*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*55.2*		*ug/L*	*100.0*		*55*	*44-119*			
Surrogate: 2-Fluorophenol	*75.2*		*ug/L*	*200.0*		*38*	*19-119*			
Surrogate: Nitrobenzene-d5	*47.7*		*ug/L*	*100.0*		*48*	*44-120*			
Surrogate: Phenol-d5	*47.3*		*ug/L*	*200.0*		*24*	*11-52*			
Surrogate: Terphenyl-d14	*73.2*		*ug/L*	*100.0*		*73*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100031
Time Submitted: 10/3/2017 11:48:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0059 - 3010A										
Blank (P7J0059-BLK1)				Prepared: 10/04/17 Analyzed: 10/05/17						
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0059-BS1)				Prepared: 10/04/17 Analyzed: 10/05/17						
Arsenic	0.243	0.010	mg/L	0.2500		97	80-120			
Barium	0.253	0.010	mg/L	0.2500		101	80-120			
Cadmium	0.246	0.0010	mg/L	0.2500		98	80-120			
Chromium	0.244	0.0050	mg/L	0.2500		98	80-120			
Lead	0.248	0.0050	mg/L	0.2500		99	80-120			
Selenium	0.236	0.020	mg/L	0.2500		94	80-120			
Silver	0.100	0.0050	mg/L	0.1000		100	80-120			
Batch P7J0149 - 7470A										
Blank (P7J0149-BLK1)				Prepared & Analyzed: 10/10/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0149-BS1)				Prepared & Analyzed: 10/10/17						
Mercury	0.00894	0.00020	mg/L	0.009375		95	80-120			

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Sample Extraction Data

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
7100031-01	P7J0137	970 mL	1 mL	10/09/17 11:20
7100031-02	P7J0137	970 mL	1 mL	10/09/17 11:20
7100031-03	P7J0137	960 mL	1 mL	10/09/17 11:20
7100031-04	P7J0137	990 mL	1 mL	10/09/17 11:20

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100031-01	P7J0059	50 mL	50 mL	10/04/17 8:25
7100031-02	P7J0059	50 mL	50 mL	10/04/17 8:25
7100031-03	P7J0059	50 mL	50 mL	10/04/17 8:25
7100031-04	P7J0059	50 mL	50 mL	10/04/17 8:25

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100031-01	P7J0149	20 mL	30 mL	10/10/17 8:10
7100031-02	P7J0149	20 mL	30 mL	10/10/17 8:10
7100031-03	P7J0149	20 mL	30 mL	10/10/17 8:10
7100031-04	P7J0149	20 mL	30 mL	10/10/17 8:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
7100031-01	P7J0088	10 mL	10 mL	10/05/17 9:45
7100031-02	P7J0088	10 mL	10 mL	10/05/17 9:45
7100031-03	P7J0088	10 mL	10 mL	10/05/17 9:45
7100031-04	P7J0088	10 mL	10 mL	10/05/17 9:45

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: RAW-515

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.586.0007 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte, NC

Project Name: Charlotte Gateway Station
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS# 44475.1.2
Address:

Purchase Order No./Billing Reference RAW-515
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days (H&H standard)
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: 111.7 Observed: 3.3 °C / Corr: 2.8 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260-VOCs	8270-SVOCs	RCP Metals 6010/7470				REMARKS	PRISM LAB ID NO.
IDW-Water (MW-1)	10/03/17	0905	WATER	VOA, A, P	6	Varies	No Pres, HCL, NaOH	X	X	X					01
IDW-Water (MW-2)	↓	0940	↓	↓	↓	↓	↓	X	X	X					02
IDW-Water (MW-3)	↓	1015	↓	↓	↓	↓	↓	X	X	X					03
IDW-Water (MW-4)	↓	1050	↓	↓	↓	↓	↓	X	X	X					04

Sampler's Signature Kenneth J. Windsand Sampled By (Print Name) Kenneth Windsand Affiliation H&H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Kenneth J. Windsand / H&H		10/3/17	1148
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
	[signature]	10-3-17	1148

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 7100031

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐	☐	☐	☐	☐	☐	☐	☐	☐

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Case Narrative

10/12/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 09/27/2017
Prism Work Order: 7090438

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

BH	MB greater than one half of the RL, but the sample concentrations are greater than 10x the MB.
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/12/2017

Prism Work Order: 7090438

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
IDW-Soil (MW-1)	7090438-01	Solid	09/25/17	09/27/17
IDW-Soil (MW-2)	7090438-02	Solid	09/27/17	09/27/17
IDW-Soil (MW-3)	7090438-03	Solid	09/26/17	09/27/17
IDW-Soil (MW-4)	7090438-04	Solid	09/26/17	09/27/17

Samples were received in good condition at 3.5 degrees C unless otherwise noted.

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Summary of Detections

10/12/2017

Prism Work Order: 7090438

Prism ID	Client ID	Parameter	Method	Result		Units
7090438-01	IDW-Soil (MW-1)	Arsenic	*6010D	2.4		mg/kg dry
7090438-01	IDW-Soil (MW-1)	Barium	*6010D	120	BH	mg/kg dry
7090438-01	IDW-Soil (MW-1)	Chromium	*6010D	94		mg/kg dry
7090438-01	IDW-Soil (MW-1)	Lead	*6010D	4.6		mg/kg dry
7090438-02	IDW-Soil (MW-2)	Arsenic	*6010D	1.7		mg/kg dry
7090438-02	IDW-Soil (MW-2)	Barium	*6010D	130	BH	mg/kg dry
7090438-02	IDW-Soil (MW-2)	Chromium	*6010D	68		mg/kg dry
7090438-02	IDW-Soil (MW-2)	Lead	*6010D	3.8		mg/kg dry
7090438-03	IDW-Soil (MW-3)	Arsenic	*6010D	1.4		mg/kg dry
7090438-03	IDW-Soil (MW-3)	Barium	*6010D	110	BH	mg/kg dry
7090438-03	IDW-Soil (MW-3)	Chromium	*6010D	56		mg/kg dry
7090438-03	IDW-Soil (MW-3)	Lead	*6010D	2.5		mg/kg dry
7090438-04	IDW-Soil (MW-4)	Mercury	*7471B	0.10		mg/kg dry
7090438-04	IDW-Soil (MW-4)	Arsenic	*6010D	2.9		mg/kg dry
7090438-04	IDW-Soil (MW-4)	Barium	*6010D	140	BH	mg/kg dry
7090438-04	IDW-Soil (MW-4)	Chromium	*6010D	26		mg/kg dry
7090438-04	IDW-Soil (MW-4)	Lead	*6010D	18		mg/kg dry

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-1)
Prism Sample ID: 7090438-01
Prism Work Order: 7090438
Time Collected: 09/25/17 14:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**79.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	mg/kg dry	0.062	0.012	1	*8082A	10/2/17 13:14	JMC	P7I0489
Aroclor 1221	BRL	mg/kg dry	0.12	0.050	1	*8082A	10/2/17 13:14	JMC	P7I0489
Aroclor 1232	BRL	mg/kg dry	0.12	0.016	1	*8082A	10/2/17 13:14	JMC	P7I0489
Aroclor 1242	BRL	mg/kg dry	0.062	0.017	1	*8082A	10/2/17 13:14	JMC	P7I0489
Aroclor 1248	BRL	mg/kg dry	0.062	0.012	1	*8082A	10/2/17 13:14	JMC	P7I0489
Aroclor 1254	BRL	mg/kg dry	0.062	0.015	1	*8082A	10/2/17 13:14	JMC	P7I0489
Aroclor 1260	BRL	mg/kg dry	0.062	0.016	1	*8082A	10/2/17 13:14	JMC	P7I0489

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*67 %*	*36-182*
Decachlorobiphenyl	*56 %*	*34-182*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.41	0.064	1	*8270D	10/6/17 18:42	JMV	P7J0084
1,2-Dichlorobenzene	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 18:42	JMV	P7J0084
1,3-Dichlorobenzene	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 18:42	JMV	P7J0084
1,4-Dichlorobenzene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/6/17 18:42	JMV	P7J0084
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.080	1	*8270D	10/6/17 18:42	JMV	P7J0084
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.41	0.077	1	*8270D	10/6/17 18:42	JMV	P7J0084
2,4-Dichlorophenol	BRL	mg/kg dry	0.41	0.080	1	*8270D	10/6/17 18:42	JMV	P7J0084
2,4-Dimethylphenol	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 18:42	JMV	P7J0084
2,4-Dinitrophenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 18:42	JMV	P7J0084
2,4-Dinitrotoluene	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/6/17 18:42	JMV	P7J0084
2,6-Dinitrotoluene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/6/17 18:42	JMV	P7J0084
2-Chloronaphthalene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/6/17 18:42	JMV	P7J0084
2-Chlorophenol	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 18:42	JMV	P7J0084
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/6/17 18:42	JMV	P7J0084
2-Methylphenol	BRL	mg/kg dry	0.41	0.053	1	*8270D	10/6/17 18:42	JMV	P7J0084
2-Nitrophenol	BRL	mg/kg dry	0.41	0.075	1	*8270D	10/6/17 18:42	JMV	P7J0084
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.41	0.082	1	*8270D	10/6/17 18:42	JMV	P7J0084
3/4-Methylphenol	BRL	mg/kg dry	0.41	0.051	1	*8270D	10/6/17 18:42	JMV	P7J0084
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.41	0.062	1	*8270D	10/6/17 18:42	JMV	P7J0084
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.41	0.071	1	*8270D	10/6/17 18:42	JMV	P7J0084
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 18:42	JMV	P7J0084
4-Chloroaniline	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/6/17 18:42	JMV	P7J0084
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 18:42	JMV	P7J0084
4-Nitrophenol	BRL	mg/kg dry	0.41	0.064	1	*8270D	10/6/17 18:42	JMV	P7J0084
Acenaphthene	BRL	mg/kg dry	0.41	0.056	1	*8270D	10/6/17 18:42	JMV	P7J0084
Acenaphthylene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/6/17 18:42	JMV	P7J0084
Anthracene	BRL	mg/kg dry	0.41	0.067	1	*8270D	10/6/17 18:42	JMV	P7J0084
Azobenzene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/6/17 18:42	JMV	P7J0084

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-1)
Prism Sample ID: 7090438-01
Prism Work Order: 7090438
Time Collected: 09/25/17 14:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 18:42	JMV	P7J0084
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.045	1	*8270D	10/6/17 18:42	JMV	P7J0084
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.048	1	*8270D	10/6/17 18:42	JMV	P7J0084
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.045	1	*8270D	10/6/17 18:42	JMV	P7J0084
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 18:42	JMV	P7J0084
Benzoic Acid	BRL	mg/kg dry	0.41	0.035	1	*8270D	10/6/17 18:42	JMV	P7J0084
Benzyl alcohol	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 18:42	JMV	P7J0084
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.41	0.072	1	*8270D	10/6/17 18:42	JMV	P7J0084
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 18:42	JMV	P7J0084
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.41	0.071	1	*8270D	10/6/17 18:42	JMV	P7J0084
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/6/17 18:42	JMV	P7J0084
Butyl benzyl phthalate	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 18:42	JMV	P7J0084
Chrysene	BRL	mg/kg dry	0.41	0.052	1	*8270D	10/6/17 18:42	JMV	P7J0084
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/6/17 18:42	JMV	P7J0084
Dibenzofuran	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 18:42	JMV	P7J0084
Diethyl phthalate	BRL	mg/kg dry	0.41	0.057	1	*8270D	10/6/17 18:42	JMV	P7J0084
Dimethyl phthalate	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/6/17 18:42	JMV	P7J0084
Di-n-butyl phthalate	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 18:42	JMV	P7J0084
Di-n-octyl phthalate	BRL	mg/kg dry	0.41	0.051	1	*8270D	10/6/17 18:42	JMV	P7J0084
Fluoranthene	BRL	mg/kg dry	0.41	0.053	1	*8270D	10/6/17 18:42	JMV	P7J0084
Fluorene	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 18:42	JMV	P7J0084
Hexachlorobenzene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/6/17 18:42	JMV	P7J0084
Hexachlorobutadiene	BRL	mg/kg dry	0.41	0.074	1	*8270D	10/6/17 18:42	JMV	P7J0084
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.41	0.074	1	*8270D	10/6/17 18:42	JMV	P7J0084
Hexachloroethane	BRL	mg/kg dry	0.41	0.069	1	*8270D	10/6/17 18:42	JMV	P7J0084
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.047	1	*8270D	10/6/17 18:42	JMV	P7J0084
Isophorone	BRL	mg/kg dry	0.41	0.056	1	*8270D	10/6/17 18:42	JMV	P7J0084
Naphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/6/17 18:42	JMV	P7J0084
Nitrobenzene	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 18:42	JMV	P7J0084
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.41	0.065	1	*8270D	10/6/17 18:42	JMV	P7J0084
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 18:42	JMV	P7J0084
Pentachlorophenol	BRL	mg/kg dry	0.41	0.049	1	*8270D	10/6/17 18:42	JMV	P7J0084
Phenanthrene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 18:42	JMV	P7J0084
Phenol	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/6/17 18:42	JMV	P7J0084
Pyrene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/6/17 18:42	JMV	P7J0084

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*79 %*	*39-132*
2-Fluorobiphenyl	*69 %*	*44-115*
2-Fluorophenol	*69 %*	*35-115*
Nitrobenzene-d5	*60 %*	*37-122*
Phenol-d5	*68 %*	*34-121*
Terphenyl-d14	*93 %*	*54-127*

TCLP Extraction by EPA 1311

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-1)
Prism Sample ID: 7090438-01
Prism Work Order: 7090438
Time Collected: 09/25/17 14:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction	Complete	N/A			1	*1311	9/29/17 8:30	JAB	P7I0461
TCLP Metals									
Mercury	BRL LH	mg/L	0.010	0.000030	1	*7470A	10/10/17 14:53	JAB	P7J0151
Arsenic	BRL	mg/L	0.050	0.012	1	*6010D	9/29/17 21:01	JAB	P7I0476
Barium	BRL	mg/L	5.0	0.0040	1	*6010D	10/3/17 15:17	JAB	P7I0476
Cadmium	BRL	mg/L	0.025	0.00075	1	*6010D	10/3/17 15:17	JAB	P7I0476
Chromium	BRL	mg/L	0.25	0.0038	1	*6010D	9/29/17 21:01	JAB	P7I0476
Lead	BRL	mg/L	0.050	0.0080	1	*6010D	9/29/17 21:01	JAB	P7I0476
Selenium	BRL	mg/L	0.10	0.022	1	*6010D	9/29/17 21:01	JAB	P7I0476
Silver	BRL	mg/L	0.25	0.00050	1	*6010D	9/29/17 21:01	JAB	P7I0476
Total Metals									
Mercury	BRL	mg/kg dry	0.026	0.0025	1	*7471B	10/9/17 12:05	JAB	P7J0127
Arsenic	**2.4**	**mg/kg dry**	**0.31**	**0.037**	**1**	***6010D**	**10/6/17 5:32**	**JAB**	**P7J0081**
Barium	**120 BH**	**mg/kg dry**	**0.61**	**0.089**	**1**	***6010D**	**10/6/17 5:32**	**JAB**	**P7J0081**
Cadmium	BRL	mg/kg dry	0.31	0.0082	1	*6010D	10/6/17 5:32	JAB	P7J0081
Chromium	**94**	**mg/kg dry**	**0.31**	**0.051**	**1**	***6010D**	**10/6/17 5:32**	**JAB**	**P7J0081**
Lead	**4.6**	**mg/kg dry**	**0.31**	**0.057**	**1**	***6010D**	**10/6/17 5:32**	**JAB**	**P7J0081**
Selenium	BRL	mg/kg dry	0.61	0.14	1	*6010D	10/6/17 5:32	JAB	P7J0081
Silver	BRL	mg/kg dry	0.31	0.0076	1	*6010D	10/6/17 5:32	JAB	P7J0081
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00040	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00033	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00043	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00027	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00028	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00062	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00036	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	*8260B	10/6/17 20:24	ANG	P7J0116
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	*8260B	10/6/17 20:24	ANG	P7J0116
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	*8260B	10/6/17 20:24	ANG	P7J0116
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	10/6/17 20:24	ANG	P7J0116

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-1)
Prism Sample ID: 7090438-01
Prism Work Order: 7090438
Time Collected: 09/25/17 14:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
Acetone	BRL	mg/kg dry	0.048	0.0012	1	*8260B	10/6/17 20:24	ANG	P7J0116
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	*8260B	10/6/17 20:24	ANG	P7J0116
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	*8260B	10/6/17 20:24	ANG	P7J0116
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00027	1	*8260B	10/6/17 20:24	ANG	P7J0116
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	*8260B	10/6/17 20:24	ANG	P7J0116
Bromoform	BRL	mg/kg dry	0.0048	0.00055	1	*8260B	10/6/17 20:24	ANG	P7J0116
Bromomethane	BRL	mg/kg dry	0.0097	0.00060	1	*8260B	10/6/17 20:24	ANG	P7J0116
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	*8260B	10/6/17 20:24	ANG	P7J0116
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00026	1	*8260B	10/6/17 20:24	ANG	P7J0116
Chloroethane	BRL	mg/kg dry	0.0097	0.00040	1	*8260B	10/6/17 20:24	ANG	P7J0116
Chloroform	BRL	mg/kg dry	0.0048	0.00035	1	*8260B	10/6/17 20:24	ANG	P7J0116
Chloromethane	BRL	mg/kg dry	0.0048	0.00033	1	*8260B	10/6/17 20:24	ANG	P7J0116
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	*8260B	10/6/17 20:24	ANG	P7J0116
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	*8260B	10/6/17 20:24	ANG	P7J0116
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	*8260B	10/6/17 20:24	ANG	P7J0116
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	*8260B	10/6/17 20:24	ANG	P7J0116
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00019	1	*8260B	10/6/17 20:24	ANG	P7J0116
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00020	1	*8260B	10/6/17 20:24	ANG	P7J0116
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	10/6/17 20:24	ANG	P7J0116
m,p-Xylenes	BRL	mg/kg dry	0.0097	0.00045	1	*8260B	10/6/17 20:24	ANG	P7J0116
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00044	1	*8260B	10/6/17 20:24	ANG	P7J0116
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.097	0.00044	1	*8260B	10/6/17 20:24	ANG	P7J0116
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	*8260B	10/6/17 20:24	ANG	P7J0116
Methylene Chloride	BRL	mg/kg dry	0.0097	0.00027	1	*8260B	10/6/17 20:24	ANG	P7J0116
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0097	0.00016	1	*8260B	10/6/17 20:24	ANG	P7J0116
Naphthalene	BRL	mg/kg dry	0.0097	0.00015	1	*8260B	10/6/17 20:24	ANG	P7J0116
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00025	1	*8260B	10/6/17 20:24	ANG	P7J0116
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	10/6/17 20:24	ANG	P7J0116
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	*8260B	10/6/17 20:24	ANG	P7J0116
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	10/6/17 20:24	ANG	P7J0116
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	*8260B	10/6/17 20:24	ANG	P7J0116
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
Toluene	BRL	mg/kg dry	0.0048	0.00028	1	*8260B	10/6/17 20:24	ANG	P7J0116
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	*8260B	10/6/17 20:24	ANG	P7J0116
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	*8260B	10/6/17 20:24	ANG	P7J0116
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	*8260B	10/6/17 20:24	ANG	P7J0116
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	*8260B	10/6/17 20:24	ANG	P7J0116
Vinyl acetate	BRL	mg/kg dry	0.024	0.00066	1	*8260B	10/6/17 20:24	ANG	P7J0116
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	*8260B	10/6/17 20:24	ANG	P7J0116
Xylenes, total	BRL	mg/kg dry	0.015	0.00091	1	*8260B	10/6/17 20:24	ANG	P7J0116

Surrogate	Recovery	Control Limits

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-1)
Prism Sample ID: 7090438-01
Prism Work Order: 7090438
Time Collected: 09/25/17 14:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Bromofluorobenzene						*105 %*		*70-130*	
Dibromofluoromethane						*103 %*		*84-123*	
Toluene-d8						*113 %*		*76-129*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-2)
Prism Sample ID: 7090438-02
Prism Work Order: 7090438
Time Collected: 09/27/17 11:40
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**78.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	mg/kg dry	0.064	0.012	1	*8082A	10/2/17 13:25	JMC	P7I0489
Aroclor 1221	BRL	mg/kg dry	0.13	0.051	1	*8082A	10/2/17 13:25	JMC	P7I0489
Aroclor 1232	BRL	mg/kg dry	0.13	0.017	1	*8082A	10/2/17 13:25	JMC	P7I0489
Aroclor 1242	BRL	mg/kg dry	0.064	0.017	1	*8082A	10/2/17 13:25	JMC	P7I0489
Aroclor 1248	BRL	mg/kg dry	0.064	0.013	1	*8082A	10/2/17 13:25	JMC	P7I0489
Aroclor 1254	BRL	mg/kg dry	0.064	0.016	1	*8082A	10/2/17 13:25	JMC	P7I0489
Aroclor 1260	BRL	mg/kg dry	0.064	0.017	1	*8082A	10/2/17 13:25	JMC	P7I0489

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*66 %*	*36-182*
Decachlorobiphenyl	*41 %*	*34-182*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.42	0.065	1	*8270D	10/6/17 19:05	JMV	P7J0084
1,2-Dichlorobenzene	BRL	mg/kg dry	0.42	0.064	1	*8270D	10/6/17 19:05	JMV	P7J0084
1,3-Dichlorobenzene	BRL	mg/kg dry	0.42	0.059	1	*8270D	10/6/17 19:05	JMV	P7J0084
1,4-Dichlorobenzene	BRL	mg/kg dry	0.42	0.061	1	*8270D	10/6/17 19:05	JMV	P7J0084
1-Methylnaphthalene	BRL	mg/kg dry	0.42	0.081	1	*8270D	10/6/17 19:05	JMV	P7J0084
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.42	0.079	1	*8270D	10/6/17 19:05	JMV	P7J0084
2,4-Dichlorophenol	BRL	mg/kg dry	0.42	0.081	1	*8270D	10/6/17 19:05	JMV	P7J0084
2,4-Dimethylphenol	BRL	mg/kg dry	0.42	0.064	1	*8270D	10/6/17 19:05	JMV	P7J0084
2,4-Dinitrophenol	BRL	mg/kg dry	0.42	0.058	1	*8270D	10/6/17 19:05	JMV	P7J0084
2,4-Dinitrotoluene	BRL	mg/kg dry	0.42	0.051	1	*8270D	10/6/17 19:05	JMV	P7J0084
2,6-Dinitrotoluene	BRL	mg/kg dry	0.42	0.056	1	*8270D	10/6/17 19:05	JMV	P7J0084
2-Chloronaphthalene	BRL	mg/kg dry	0.42	0.061	1	*8270D	10/6/17 19:05	JMV	P7J0084
2-Chlorophenol	BRL	mg/kg dry	0.42	0.059	1	*8270D	10/6/17 19:05	JMV	P7J0084
2-Methylnaphthalene	BRL	mg/kg dry	0.42	0.067	1	*8270D	10/6/17 19:05	JMV	P7J0084
2-Methylphenol	BRL	mg/kg dry	0.42	0.054	1	*8270D	10/6/17 19:05	JMV	P7J0084
2-Nitrophenol	BRL	mg/kg dry	0.42	0.076	1	*8270D	10/6/17 19:05	JMV	P7J0084
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.42	0.083	1	*8270D	10/6/17 19:05	JMV	P7J0084
3/4-Methylphenol	BRL	mg/kg dry	0.42	0.052	1	*8270D	10/6/17 19:05	JMV	P7J0084
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.42	0.063	1	*8270D	10/6/17 19:05	JMV	P7J0084
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.42	0.072	1	*8270D	10/6/17 19:05	JMV	P7J0084
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.42	0.059	1	*8270D	10/6/17 19:05	JMV	P7J0084
4-Chloroaniline	BRL	mg/kg dry	0.42	0.050	1	*8270D	10/6/17 19:05	JMV	P7J0084
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.42	0.054	1	*8270D	10/6/17 19:05	JMV	P7J0084
4-Nitrophenol	BRL	mg/kg dry	0.42	0.065	1	*8270D	10/6/17 19:05	JMV	P7J0084
Acenaphthene	BRL	mg/kg dry	0.42	0.057	1	*8270D	10/6/17 19:05	JMV	P7J0084
Acenaphthylene	BRL	mg/kg dry	0.42	0.061	1	*8270D	10/6/17 19:05	JMV	P7J0084
Anthracene	BRL	mg/kg dry	0.42	0.067	1	*8270D	10/6/17 19:05	JMV	P7J0084
Azobenzene	BRL	mg/kg dry	0.42	0.055	1	*8270D	10/6/17 19:05	JMV	P7J0084

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-2)
Prism Sample ID: 7090438-02
Prism Work Order: 7090438
Time Collected: 09/27/17 11:40
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	mg/kg dry	0.42	0.055	1	*8270D	10/6/17 19:05	JMV	P7J0084
Benzo(a)pyrene	BRL	mg/kg dry	0.42	0.045	1	*8270D	10/6/17 19:05	JMV	P7J0084
Benzo(b)fluoranthene	BRL	mg/kg dry	0.42	0.049	1	*8270D	10/6/17 19:05	JMV	P7J0084
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.42	0.046	1	*8270D	10/6/17 19:05	JMV	P7J0084
Benzo(k)fluoranthene	BRL	mg/kg dry	0.42	0.055	1	*8270D	10/6/17 19:05	JMV	P7J0084
Benzoic Acid	BRL	mg/kg dry	0.42	0.035	1	*8270D	10/6/17 19:05	JMV	P7J0084
Benzyl alcohol	BRL	mg/kg dry	0.42	0.055	1	*8270D	10/6/17 19:05	JMV	P7J0084
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.42	0.073	1	*8270D	10/6/17 19:05	JMV	P7J0084
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.42	0.059	1	*8270D	10/6/17 19:05	JMV	P7J0084
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.42	0.072	1	*8270D	10/6/17 19:05	JMV	P7J0084
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.42	0.062	1	*8270D	10/6/17 19:05	JMV	P7J0084
Butyl benzyl phthalate	BRL	mg/kg dry	0.42	0.060	1	*8270D	10/6/17 19:05	JMV	P7J0084
Chrysene	BRL	mg/kg dry	0.42	0.053	1	*8270D	10/6/17 19:05	JMV	P7J0084
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.42	0.051	1	*8270D	10/6/17 19:05	JMV	P7J0084
Dibenzofuran	BRL	mg/kg dry	0.42	0.064	1	*8270D	10/6/17 19:05	JMV	P7J0084
Diethyl phthalate	BRL	mg/kg dry	0.42	0.058	1	*8270D	10/6/17 19:05	JMV	P7J0084
Dimethyl phthalate	BRL	mg/kg dry	0.42	0.055	1	*8270D	10/6/17 19:05	JMV	P7J0084
Di-n-butyl phthalate	BRL	mg/kg dry	0.42	0.059	1	*8270D	10/6/17 19:05	JMV	P7J0084
Di-n-octyl phthalate	BRL	mg/kg dry	0.42	0.051	1	*8270D	10/6/17 19:05	JMV	P7J0084
Fluoranthene	BRL	mg/kg dry	0.42	0.053	1	*8270D	10/6/17 19:05	JMV	P7J0084
Fluorene	BRL	mg/kg dry	0.42	0.060	1	*8270D	10/6/17 19:05	JMV	P7J0084
Hexachlorobenzene	BRL	mg/kg dry	0.42	0.066	1	*8270D	10/6/17 19:05	JMV	P7J0084
Hexachlorobutadiene	BRL	mg/kg dry	0.42	0.075	1	*8270D	10/6/17 19:05	JMV	P7J0084
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.42	0.075	1	*8270D	10/6/17 19:05	JMV	P7J0084
Hexachloroethane	BRL	mg/kg dry	0.42	0.070	1	*8270D	10/6/17 19:05	JMV	P7J0084
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.42	0.048	1	*8270D	10/6/17 19:05	JMV	P7J0084
Isophorone	BRL	mg/kg dry	0.42	0.057	1	*8270D	10/6/17 19:05	JMV	P7J0084
Naphthalene	BRL	mg/kg dry	0.42	0.067	1	*8270D	10/6/17 19:05	JMV	P7J0084
Nitrobenzene	BRL	mg/kg dry	0.42	0.059	1	*8270D	10/6/17 19:05	JMV	P7J0084
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.42	0.066	1	*8270D	10/6/17 19:05	JMV	P7J0084
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.42	0.064	1	*8270D	10/6/17 19:05	JMV	P7J0084
Pentachlorophenol	BRL	mg/kg dry	0.42	0.049	1	*8270D	10/6/17 19:05	JMV	P7J0084
Phenanthrene	BRL	mg/kg dry	0.42	0.054	1	*8270D	10/6/17 19:05	JMV	P7J0084
Phenol	BRL	mg/kg dry	0.42	0.062	1	*8270D	10/6/17 19:05	JMV	P7J0084
Pyrene	BRL	mg/kg dry	0.42	0.055	1	*8270D	10/6/17 19:05	JMV	P7J0084

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*78 %*	*39-132*
2-Fluorobiphenyl	*72 %*	*44-115*
2-Fluorophenol	*71 %*	*35-115*
Nitrobenzene-d5	*63 %*	*37-122*
Phenol-d5	*71 %*	*34-121*
Terphenyl-d14	*89 %*	*54-127*

TCLP Extraction by EPA 1311

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-2)
Prism Sample ID: 7090438-02
Prism Work Order: 7090438
Time Collected: 09/27/17 11:40
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction	Complete	N/A			1	*1311	9/29/17 8:30	JAB	P7I0461
TCLP Metals									
Mercury	BRL LH	mg/L	0.010	0.000030	1	*7470A	10/10/17 15:04	JAB	P7J0151
Arsenic	BRL	mg/L	0.050	0.012	1	*6010D	9/29/17 21:27	JAB	P7I0476
Barium	BRL	mg/L	5.0	0.0040	1	*6010D	10/3/17 15:43	JAB	P7I0476
Cadmium	BRL	mg/L	0.025	0.00075	1	*6010D	10/3/17 15:43	JAB	P7I0476
Chromium	BRL	mg/L	0.25	0.0038	1	*6010D	9/29/17 21:27	JAB	P7I0476
Lead	BRL	mg/L	0.050	0.0080	1	*6010D	9/29/17 21:27	JAB	P7I0476
Selenium	BRL	mg/L	0.10	0.022	1	*6010D	9/29/17 21:27	JAB	P7I0476
Silver	BRL	mg/L	0.25	0.00050	1	*6010D	9/29/17 21:27	JAB	P7I0476
Total Metals									
Mercury	BRL	mg/kg dry	0.024	0.0023	1	*7471B	10/9/17 12:10	JAB	P7J0127
Arsenic	**1.7**	**mg/kg dry**	**0.31**	**0.038**	**1**	***6010D**	**10/6/17 6:00**	**JAB**	**P7J0081**
Barium	**130 BH**	**mg/kg dry**	**0.62**	**0.091**	**1**	***6010D**	**10/6/17 6:00**	**JAB**	**P7J0081**
Cadmium	BRL	mg/kg dry	0.31	0.0083	1	*6010D	10/6/17 6:00	JAB	P7J0081
Chromium	**68**	**mg/kg dry**	**0.31**	**0.052**	**1**	***6010D**	**10/6/17 6:00**	**JAB**	**P7J0081**
Lead	**3.8**	**mg/kg dry**	**0.31**	**0.058**	**1**	***6010D**	**10/6/17 6:00**	**JAB**	**P7J0081**
Selenium	BRL	mg/kg dry	0.62	0.15	1	*6010D	10/6/17 6:00	JAB	P7J0081
Silver	BRL	mg/kg dry	0.31	0.0077	1	*6010D	10/6/17 6:00	JAB	P7J0081
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00041	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00034	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00045	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00014	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,1-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00022	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00028	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00029	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00064	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00037	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00031	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00033	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00025	1	*8260B	10/6/17 20:51	ANG	P7J0116
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 20:51	ANG	P7J0116
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
2-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00026	1	*8260B	10/6/17 20:51	ANG	P7J0116
4-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 20:51	ANG	P7J0116

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Hart & Hickman (Charlotte)
Attn: David Graham
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Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-2)
Prism Sample ID: 7090438-02
Prism Work Order: 7090438
Time Collected: 09/27/17 11:40
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Isopropyltoluene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
Acetone	BRL	mg/kg dry	0.050	0.0012	1	*8260B	10/6/17 20:51	ANG	P7J0116
Benzene	BRL	mg/kg dry	0.0030	0.00029	1	*8260B	10/6/17 20:51	ANG	P7J0116
Bromobenzene	BRL	mg/kg dry	0.0050	0.00042	1	*8260B	10/6/17 20:51	ANG	P7J0116
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00028	1	*8260B	10/6/17 20:51	ANG	P7J0116
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00028	1	*8260B	10/6/17 20:51	ANG	P7J0116
Bromoform	BRL	mg/kg dry	0.0050	0.00057	1	*8260B	10/6/17 20:51	ANG	P7J0116
Bromomethane	BRL	mg/kg dry	0.010	0.00062	1	*8260B	10/6/17 20:51	ANG	P7J0116
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00025	1	*8260B	10/6/17 20:51	ANG	P7J0116
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00027	1	*8260B	10/6/17 20:51	ANG	P7J0116
Chloroethane	BRL	mg/kg dry	0.010	0.00042	1	*8260B	10/6/17 20:51	ANG	P7J0116
Chloroform	BRL	mg/kg dry	0.0050	0.00036	1	*8260B	10/6/17 20:51	ANG	P7J0116
Chloromethane	BRL	mg/kg dry	0.0050	0.00034	1	*8260B	10/6/17 20:51	ANG	P7J0116
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00021	1	*8260B	10/6/17 20:51	ANG	P7J0116
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00017	1	*8260B	10/6/17 20:51	ANG	P7J0116
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00021	1	*8260B	10/6/17 20:51	ANG	P7J0116
Dichlorodifluoromethane	BRL	mg/kg dry	0.0050	0.00023	1	*8260B	10/6/17 20:51	ANG	P7J0116
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00019	1	*8260B	10/6/17 20:51	ANG	P7J0116
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 20:51	ANG	P7J0116
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 20:51	ANG	P7J0116
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00046	1	*8260B	10/6/17 20:51	ANG	P7J0116
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.00045	1	*8260B	10/6/17 20:51	ANG	P7J0116
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00045	1	*8260B	10/6/17 20:51	ANG	P7J0116
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.050	0.00043	1	*8260B	10/6/17 20:51	ANG	P7J0116
Methylene Chloride	BRL	mg/kg dry	0.010	0.00028	1	*8260B	10/6/17 20:51	ANG	P7J0116
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	*8260B	10/6/17 20:51	ANG	P7J0116
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	*8260B	10/6/17 20:51	ANG	P7J0116
n-Butylbenzene	BRL	mg/kg dry	0.0050	0.00026	1	*8260B	10/6/17 20:51	ANG	P7J0116
n-Propylbenzene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 20:51	ANG	P7J0116
o-Xylene	BRL	mg/kg dry	0.0050	0.00021	1	*8260B	10/6/17 20:51	ANG	P7J0116
sec-Butylbenzene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
Styrene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 20:51	ANG	P7J0116
tert-Butylbenzene	BRL	mg/kg dry	0.0050	0.00017	1	*8260B	10/6/17 20:51	ANG	P7J0116
Tetrachloroethylene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
Toluene	BRL	mg/kg dry	0.0050	0.00029	1	*8260B	10/6/17 20:51	ANG	P7J0116
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 20:51	ANG	P7J0116
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00026	1	*8260B	10/6/17 20:51	ANG	P7J0116
Trichloroethylene	BRL	mg/kg dry	0.0050	0.00033	1	*8260B	10/6/17 20:51	ANG	P7J0116
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00032	1	*8260B	10/6/17 20:51	ANG	P7J0116
Vinyl acetate	BRL	mg/kg dry	0.025	0.00069	1	*8260B	10/6/17 20:51	ANG	P7J0116
Vinyl chloride	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 20:51	ANG	P7J0116
Xylenes, total	BRL	mg/kg dry	0.015	0.00094	1	*8260B	10/6/17 20:51	ANG	P7J0116

Surrogate	Recovery	Control Limits

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-2)
Prism Sample ID: 7090438-02
Prism Work Order: 7090438
Time Collected: 09/27/17 11:40
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Bromofluorobenzene						*105 %*		*70-130*	
Dibromofluoromethane						*101 %*		*84-123*	
Toluene-d8						*114 %*		*76-129*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-3)
Prism Sample ID: 7090438-03
Prism Work Order: 7090438
Time Collected: 09/26/17 12:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**79.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	mg/kg dry	0.063	0.012	1	*8082A	10/2/17 13:37	JMC	P7I0489
Aroclor 1221	BRL	mg/kg dry	0.13	0.050	1	*8082A	10/2/17 13:37	JMC	P7I0489
Aroclor 1232	BRL	mg/kg dry	0.13	0.016	1	*8082A	10/2/17 13:37	JMC	P7I0489
Aroclor 1242	BRL	mg/kg dry	0.063	0.017	1	*8082A	10/2/17 13:37	JMC	P7I0489
Aroclor 1248	BRL	mg/kg dry	0.063	0.013	1	*8082A	10/2/17 13:37	JMC	P7I0489
Aroclor 1254	BRL	mg/kg dry	0.063	0.016	1	*8082A	10/2/17 13:37	JMC	P7I0489
Aroclor 1260	BRL	mg/kg dry	0.063	0.016	1	*8082A	10/2/17 13:37	JMC	P7I0489

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*71 %*	*36-182*
Decachlorobiphenyl	*48 %*	*34-182*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.41	0.064	1	*8270D	10/6/17 19:27	JMV	P7J0084
1,2-Dichlorobenzene	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 19:27	JMV	P7J0084
1,3-Dichlorobenzene	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 19:27	JMV	P7J0084
1,4-Dichlorobenzene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/6/17 19:27	JMV	P7J0084
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.079	1	*8270D	10/6/17 19:27	JMV	P7J0084
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.41	0.077	1	*8270D	10/6/17 19:27	JMV	P7J0084
2,4-Dichlorophenol	BRL	mg/kg dry	0.41	0.080	1	*8270D	10/6/17 19:27	JMV	P7J0084
2,4-Dimethylphenol	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 19:27	JMV	P7J0084
2,4-Dinitrophenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 19:27	JMV	P7J0084
2,4-Dinitrotoluene	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/6/17 19:27	JMV	P7J0084
2,6-Dinitrotoluene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/6/17 19:27	JMV	P7J0084
2-Chloronaphthalene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/6/17 19:27	JMV	P7J0084
2-Chlorophenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 19:27	JMV	P7J0084
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/6/17 19:27	JMV	P7J0084
2-Methylphenol	BRL	mg/kg dry	0.41	0.053	1	*8270D	10/6/17 19:27	JMV	P7J0084
2-Nitrophenol	BRL	mg/kg dry	0.41	0.075	1	*8270D	10/6/17 19:27	JMV	P7J0084
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.41	0.081	1	*8270D	10/6/17 19:27	JMV	P7J0084
3/4-Methylphenol	BRL	mg/kg dry	0.41	0.051	1	*8270D	10/6/17 19:27	JMV	P7J0084
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.41	0.062	1	*8270D	10/6/17 19:27	JMV	P7J0084
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.41	0.071	1	*8270D	10/6/17 19:27	JMV	P7J0084
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 19:27	JMV	P7J0084
4-Chloroaniline	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/6/17 19:27	JMV	P7J0084
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084
4-Nitrophenol	BRL	mg/kg dry	0.41	0.064	1	*8270D	10/6/17 19:27	JMV	P7J0084
Acenaphthene	BRL	mg/kg dry	0.41	0.056	1	*8270D	10/6/17 19:27	JMV	P7J0084
Acenaphthylene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/6/17 19:27	JMV	P7J0084
Anthracene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/6/17 19:27	JMV	P7J0084
Azobenzene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-3)
Prism Sample ID: 7090438-03
Prism Work Order: 7090438
Time Collected: 09/26/17 12:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.045	1	*8270D	10/6/17 19:27	JMV	P7J0084
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.048	1	*8270D	10/6/17 19:27	JMV	P7J0084
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.045	1	*8270D	10/6/17 19:27	JMV	P7J0084
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084
Benzoic Acid	BRL	mg/kg dry	0.41	0.035	1	*8270D	10/6/17 19:27	JMV	P7J0084
Benzyl alcohol	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.41	0.071	1	*8270D	10/6/17 19:27	JMV	P7J0084
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/6/17 19:27	JMV	P7J0084
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.41	0.070	1	*8270D	10/6/17 19:27	JMV	P7J0084
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/6/17 19:27	JMV	P7J0084
Butyl benzyl phthalate	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 19:27	JMV	P7J0084
Chrysene	BRL	mg/kg dry	0.41	0.052	1	*8270D	10/6/17 19:27	JMV	P7J0084
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/6/17 19:27	JMV	P7J0084
Dibenzofuran	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 19:27	JMV	P7J0084
Diethyl phthalate	BRL	mg/kg dry	0.41	0.057	1	*8270D	10/6/17 19:27	JMV	P7J0084
Dimethyl phthalate	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084
Di-n-butyl phthalate	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 19:27	JMV	P7J0084
Di-n-octyl phthalate	BRL	mg/kg dry	0.41	0.051	1	*8270D	10/6/17 19:27	JMV	P7J0084
Fluoranthene	BRL	mg/kg dry	0.41	0.053	1	*8270D	10/6/17 19:27	JMV	P7J0084
Fluorene	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 19:27	JMV	P7J0084
Hexachlorobenzene	BRL	mg/kg dry	0.41	0.065	1	*8270D	10/6/17 19:27	JMV	P7J0084
Hexachlorobutadiene	BRL	mg/kg dry	0.41	0.074	1	*8270D	10/6/17 19:27	JMV	P7J0084
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.41	0.073	1	*8270D	10/6/17 19:27	JMV	P7J0084
Hexachloroethane	BRL	mg/kg dry	0.41	0.069	1	*8270D	10/6/17 19:27	JMV	P7J0084
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.047	1	*8270D	10/6/17 19:27	JMV	P7J0084
Isophorone	BRL	mg/kg dry	0.41	0.056	1	*8270D	10/6/17 19:27	JMV	P7J0084
Naphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/6/17 19:27	JMV	P7J0084
Nitrobenzene	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/6/17 19:27	JMV	P7J0084
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.41	0.065	1	*8270D	10/6/17 19:27	JMV	P7J0084
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/6/17 19:27	JMV	P7J0084
Pentachlorophenol	BRL	mg/kg dry	0.41	0.049	1	*8270D	10/6/17 19:27	JMV	P7J0084
Phenanthrene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/6/17 19:27	JMV	P7J0084
Phenol	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/6/17 19:27	JMV	P7J0084
Pyrene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/6/17 19:27	JMV	P7J0084

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*73 %*	*39-132*
2-Fluorobiphenyl	*67 %*	*44-115*
2-Fluorophenol	*68 %*	*35-115*
Nitrobenzene-d5	*54 %*	*37-122*
Phenol-d5	*66 %*	*34-121*
Terphenyl-d14	*86 %*	*54-127*

TCLP Extraction by EPA 1311

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-3)
Prism Sample ID: 7090438-03
Prism Work Order: 7090438
Time Collected: 09/26/17 12:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction	Complete	N/A			1	*1311	9/29/17 8:30	JAB	P7I0461
TCLP Metals									
Mercury	BRL LH	mg/L	0.010	0.000030	1	*7470A	10/10/17 15:08	JAB	P7J0151
Arsenic	BRL	mg/L	0.050	0.012	1	*6010D	9/29/17 21:35	JAB	P7I0476
Barium	BRL	mg/L	5.0	0.0040	1	*6010D	10/3/17 15:51	JAB	P7I0476
Cadmium	BRL	mg/L	0.025	0.00075	1	*6010D	10/3/17 15:51	JAB	P7I0476
Chromium	BRL	mg/L	0.25	0.0038	1	*6010D	9/29/17 21:35	JAB	P7I0476
Lead	BRL	mg/L	0.050	0.0080	1	*6010D	9/29/17 21:35	JAB	P7I0476
Selenium	BRL	mg/L	0.10	0.022	1	*6010D	9/29/17 21:35	JAB	P7I0476
Silver	BRL	mg/L	0.25	0.00050	1	*6010D	9/29/17 21:35	JAB	P7I0476
Total Metals									
Mercury	BRL	mg/kg dry	0.026	0.0025	1	*7471B	10/9/17 12:14	JAB	P7J0127
Arsenic	**1.4**	**mg/kg dry**	**0.31**	**0.037**	**1**	***6010D**	**10/6/17 6:10**	**JAB**	**P7J0081**
Barium	**110 BH**	**mg/kg dry**	**0.61**	**0.089**	**1**	***6010D**	**10/6/17 6:10**	**JAB**	**P7J0081**
Cadmium	BRL	mg/kg dry	0.31	0.0082	1	*6010D	10/6/17 6:10	JAB	P7J0081
Chromium	**56**	**mg/kg dry**	**0.31**	**0.051**	**1**	***6010D**	**10/6/17 6:10**	**JAB**	**P7J0081**
Lead	**2.5**	**mg/kg dry**	**0.31**	**0.057**	**1**	***6010D**	**10/6/17 6:10**	**JAB**	**P7J0081**
Selenium	BRL	mg/kg dry	0.61	0.15	1	*6010D	10/6/17 6:10	JAB	P7J0081
Silver	BRL	mg/kg dry	0.31	0.0076	1	*6010D	10/6/17 6:10	JAB	P7J0081
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00044	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00036	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00047	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00015	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00029	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00068	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00040	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00041	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00021	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00033	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00040	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00035	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	10/6/17 21:19	ANG	P7J0116
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00021	1	*8260B	10/6/17 21:19	ANG	P7J0116
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	10/6/17 21:19	ANG	P7J0116
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	10/6/17 21:19	ANG	P7J0116
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/6/17 21:19	ANG	P7J0116

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-3)
Prism Sample ID: 7090438-03
Prism Work Order: 7090438
Time Collected: 09/26/17 12:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/6/17 21:19	ANG	P7J0116
Acetone	BRL	mg/kg dry	0.053	0.0013	1	*8260B	10/6/17 21:19	ANG	P7J0116
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	*8260B	10/6/17 21:19	ANG	P7J0116
Bromobenzene	BRL	mg/kg dry	0.0053	0.00044	1	*8260B	10/6/17 21:19	ANG	P7J0116
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00029	1	*8260B	10/6/17 21:19	ANG	P7J0116
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	10/6/17 21:19	ANG	P7J0116
Bromoform	BRL	mg/kg dry	0.0053	0.00060	1	*8260B	10/6/17 21:19	ANG	P7J0116
Bromomethane	BRL	mg/kg dry	0.011	0.00066	1	*8260B	10/6/17 21:19	ANG	P7J0116
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/6/17 21:19	ANG	P7J0116
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00028	1	*8260B	10/6/17 21:19	ANG	P7J0116
Chloroethane	BRL	mg/kg dry	0.011	0.00044	1	*8260B	10/6/17 21:19	ANG	P7J0116
Chloroform	BRL	mg/kg dry	0.0053	0.00038	1	*8260B	10/6/17 21:19	ANG	P7J0116
Chloromethane	BRL	mg/kg dry	0.0053	0.00036	1	*8260B	10/6/17 21:19	ANG	P7J0116
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	10/6/17 21:19	ANG	P7J0116
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00018	1	*8260B	10/6/17 21:19	ANG	P7J0116
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	10/6/17 21:19	ANG	P7J0116
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00024	1	*8260B	10/6/17 21:19	ANG	P7J0116
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00020	1	*8260B	10/6/17 21:19	ANG	P7J0116
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	10/6/17 21:19	ANG	P7J0116
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00031	1	*8260B	10/6/17 21:19	ANG	P7J0116
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00049	1	*8260B	10/6/17 21:19	ANG	P7J0116
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.00048	1	*8260B	10/6/17 21:19	ANG	P7J0116
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00048	1	*8260B	10/6/17 21:19	ANG	P7J0116
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.00045	1	*8260B	10/6/17 21:19	ANG	P7J0116
Methylene Chloride	BRL	mg/kg dry	0.011	0.00030	1	*8260B	10/6/17 21:19	ANG	P7J0116
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00017	1	*8260B	10/6/17 21:19	ANG	P7J0116
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	*8260B	10/6/17 21:19	ANG	P7J0116
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	10/6/17 21:19	ANG	P7J0116
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/6/17 21:19	ANG	P7J0116
o-Xylene	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	10/6/17 21:19	ANG	P7J0116
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/6/17 21:19	ANG	P7J0116
Styrene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/6/17 21:19	ANG	P7J0116
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00018	1	*8260B	10/6/17 21:19	ANG	P7J0116
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	10/6/17 21:19	ANG	P7J0116
Toluene	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	10/6/17 21:19	ANG	P7J0116
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/6/17 21:19	ANG	P7J0116
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00028	1	*8260B	10/6/17 21:19	ANG	P7J0116
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	10/6/17 21:19	ANG	P7J0116
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	10/6/17 21:19	ANG	P7J0116
Vinyl acetate	BRL	mg/kg dry	0.027	0.00073	1	*8260B	10/6/17 21:19	ANG	P7J0116
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/6/17 21:19	ANG	P7J0116
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	*8260B	10/6/17 21:19	ANG	P7J0116

Surrogate	Recovery	Control Limits

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-3)
Prism Sample ID: 7090438-03
Prism Work Order: 7090438
Time Collected: 09/26/17 12:45
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Bromofluorobenzene						*103 %*		*70-130*	
Dibromofluoromethane						*102 %*		*84-123*	
Toluene-d8						*113 %*		*76-129*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-4)
Prism Sample ID: 7090438-04
Prism Work Order: 7090438
Time Collected: 09/26/17 16:35
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**82.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	mg/kg dry	0.061	0.012	1	*8082A	10/2/17 13:49	JMC	P7I0489
Aroclor 1221	BRL	mg/kg dry	0.12	0.049	1	*8082A	10/2/17 13:49	JMC	P7I0489
Aroclor 1232	BRL	mg/kg dry	0.12	0.016	1	*8082A	10/2/17 13:49	JMC	P7I0489
Aroclor 1242	BRL	mg/kg dry	0.061	0.016	1	*8082A	10/2/17 13:49	JMC	P7I0489
Aroclor 1248	BRL	mg/kg dry	0.061	0.012	1	*8082A	10/2/17 13:49	JMC	P7I0489
Aroclor 1254	BRL	mg/kg dry	0.061	0.015	1	*8082A	10/2/17 13:49	JMC	P7I0489
Aroclor 1260	BRL	mg/kg dry	0.061	0.016	1	*8082A	10/2/17 13:49	JMC	P7I0489

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*64 %*	*36-182*
Decachlorobiphenyl	*48 %*	*34-182*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.062	1	*8270D	10/6/17 19:50	JMV	P7J0084
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.061	1	*8270D	10/6/17 19:50	JMV	P7J0084
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.056	1	*8270D	10/6/17 19:50	JMV	P7J0084
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.059	1	*8270D	10/6/17 19:50	JMV	P7J0084
1-Methylnaphthalene	BRL	mg/kg dry	0.40	0.077	1	*8270D	10/6/17 19:50	JMV	P7J0084
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.075	1	*8270D	10/6/17 19:50	JMV	P7J0084
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.077	1	*8270D	10/6/17 19:50	JMV	P7J0084
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.061	1	*8270D	10/6/17 19:50	JMV	P7J0084
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.056	1	*8270D	10/6/17 19:50	JMV	P7J0084
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.049	1	*8270D	10/6/17 19:50	JMV	P7J0084
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.053	1	*8270D	10/6/17 19:50	JMV	P7J0084
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.058	1	*8270D	10/6/17 19:50	JMV	P7J0084
2-Chlorophenol	BRL	mg/kg dry	0.40	0.057	1	*8270D	10/6/17 19:50	JMV	P7J0084
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.064	1	*8270D	10/6/17 19:50	JMV	P7J0084
2-Methylphenol	BRL	mg/kg dry	0.40	0.051	1	*8270D	10/6/17 19:50	JMV	P7J0084
2-Nitrophenol	BRL	mg/kg dry	0.40	0.073	1	*8270D	10/6/17 19:50	JMV	P7J0084
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.079	1	*8270D	10/6/17 19:50	JMV	P7J0084
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.049	1	*8270D	10/6/17 19:50	JMV	P7J0084
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.060	1	*8270D	10/6/17 19:50	JMV	P7J0084
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.069	1	*8270D	10/6/17 19:50	JMV	P7J0084
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.056	1	*8270D	10/6/17 19:50	JMV	P7J0084
4-Chloroaniline	BRL	mg/kg dry	0.40	0.048	1	*8270D	10/6/17 19:50	JMV	P7J0084
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.052	1	*8270D	10/6/17 19:50	JMV	P7J0084
4-Nitrophenol	BRL	mg/kg dry	0.40	0.062	1	*8270D	10/6/17 19:50	JMV	P7J0084
Acenaphthene	BRL	mg/kg dry	0.40	0.054	1	*8270D	10/6/17 19:50	JMV	P7J0084
Acenaphthylene	BRL	mg/kg dry	0.40	0.058	1	*8270D	10/6/17 19:50	JMV	P7J0084
Anthracene	BRL	mg/kg dry	0.40	0.064	1	*8270D	10/6/17 19:50	JMV	P7J0084
Azobenzene	BRL	mg/kg dry	0.40	0.053	1	*8270D	10/6/17 19:50	JMV	P7J0084

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-4)
Prism Sample ID: 7090438-04
Prism Work Order: 7090438
Time Collected: 09/26/17 16:35
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.052	1	*8270D	10/6/17 19:50	JMV	P7J0084
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.043	1	*8270D	10/6/17 19:50	JMV	P7J0084
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.046	1	*8270D	10/6/17 19:50	JMV	P7J0084
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.044	1	*8270D	10/6/17 19:50	JMV	P7J0084
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.052	1	*8270D	10/6/17 19:50	JMV	P7J0084
Benzoic Acid	BRL	mg/kg dry	0.40	0.034	1	*8270D	10/6/17 19:50	JMV	P7J0084
Benzyl alcohol	BRL	mg/kg dry	0.40	0.053	1	*8270D	10/6/17 19:50	JMV	P7J0084
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.069	1	*8270D	10/6/17 19:50	JMV	P7J0084
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.056	1	*8270D	10/6/17 19:50	JMV	P7J0084
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.068	1	*8270D	10/6/17 19:50	JMV	P7J0084
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.059	1	*8270D	10/6/17 19:50	JMV	P7J0084
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.057	1	*8270D	10/6/17 19:50	JMV	P7J0084
Chrysene	BRL	mg/kg dry	0.40	0.050	1	*8270D	10/6/17 19:50	JMV	P7J0084
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.049	1	*8270D	10/6/17 19:50	JMV	P7J0084
Dibenzofuran	BRL	mg/kg dry	0.40	0.061	1	*8270D	10/6/17 19:50	JMV	P7J0084
Diethyl phthalate	BRL	mg/kg dry	0.40	0.055	1	*8270D	10/6/17 19:50	JMV	P7J0084
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.053	1	*8270D	10/6/17 19:50	JMV	P7J0084
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.057	1	*8270D	10/6/17 19:50	JMV	P7J0084
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.049	1	*8270D	10/6/17 19:50	JMV	P7J0084
Fluoranthene	BRL	mg/kg dry	0.40	0.051	1	*8270D	10/6/17 19:50	JMV	P7J0084
Fluorene	BRL	mg/kg dry	0.40	0.057	1	*8270D	10/6/17 19:50	JMV	P7J0084
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.063	1	*8270D	10/6/17 19:50	JMV	P7J0084
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.072	1	*8270D	10/6/17 19:50	JMV	P7J0084
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.071	1	*8270D	10/6/17 19:50	JMV	P7J0084
Hexachloroethane	BRL	mg/kg dry	0.40	0.067	1	*8270D	10/6/17 19:50	JMV	P7J0084
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.046	1	*8270D	10/6/17 19:50	JMV	P7J0084
Isophorone	BRL	mg/kg dry	0.40	0.054	1	*8270D	10/6/17 19:50	JMV	P7J0084
Naphthalene	BRL	mg/kg dry	0.40	0.064	1	*8270D	10/6/17 19:50	JMV	P7J0084
Nitrobenzene	BRL	mg/kg dry	0.40	0.057	1	*8270D	10/6/17 19:50	JMV	P7J0084
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.063	1	*8270D	10/6/17 19:50	JMV	P7J0084
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.061	1	*8270D	10/6/17 19:50	JMV	P7J0084
Pentachlorophenol	BRL	mg/kg dry	0.40	0.047	1	*8270D	10/6/17 19:50	JMV	P7J0084
Phenanthrene	BRL	mg/kg dry	0.40	0.052	1	*8270D	10/6/17 19:50	JMV	P7J0084
Phenol	BRL	mg/kg dry	0.40	0.059	1	*8270D	10/6/17 19:50	JMV	P7J0084
Pyrene	BRL	mg/kg dry	0.40	0.053	1	*8270D	10/6/17 19:50	JMV	P7J0084

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*48 %*	*39-132*
2-Fluorobiphenyl	*53 %*	*44-115*
2-Fluorophenol	*54 %*	*35-115*
Nitrobenzene-d5	*46 %*	*37-122*
Phenol-d5	*53 %*	*34-121*
Terphenyl-d14	*66 %*	*54-127*

TCLP Extraction by EPA 1311

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-4)
Prism Sample ID: 7090438-04
Prism Work Order: 7090438
Time Collected: 09/26/17 16:35
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction	Complete	N/A			1	*1311	9/29/17 8:30	JAB	P7I0461
TCLP Metals									
Mercury	BRL LH	mg/L	0.010	0.000030	1	*7470A	10/10/17 15:12	JAB	P7J0151
Arsenic	BRL	mg/L	0.050	0.012	1	*6010D	9/29/17 21:44	JAB	P7I0476
Barium	BRL	mg/L	5.0	0.0040	1	*6010D	10/3/17 16:00	JAB	P7I0476
Cadmium	BRL	mg/L	0.025	0.00075	1	*6010D	10/3/17 16:00	JAB	P7I0476
Chromium	BRL	mg/L	0.25	0.0038	1	*6010D	9/29/17 21:44	JAB	P7I0476
Lead	BRL	mg/L	0.050	0.0080	1	*6010D	9/29/17 21:44	JAB	P7I0476
Selenium	BRL	mg/L	0.10	0.022	1	*6010D	9/29/17 21:44	JAB	P7I0476
Silver	BRL	mg/L	0.25	0.00050	1	*6010D	9/29/17 21:44	JAB	P7I0476
Total Metals									
Mercury	**0.10**	**mg/kg dry**	**0.023**	**0.0022**	**1**	***7471B**	**10/9/17 12:19**	**JAB**	**P7J0127**
Arsenic	**2.9**	**mg/kg dry**	**0.30**	**0.036**	**1**	***6010D**	**10/6/17 6:20**	**JAB**	**P7J0081**
Barium	**140 BH**	**mg/kg dry**	**0.60**	**0.087**	**1**	***6010D**	**10/6/17 6:20**	**JAB**	**P7J0081**
Cadmium	BRL	mg/kg dry	0.30	0.0080	1	*6010D	10/6/17 6:20	JAB	P7J0081
Chromium	**26**	**mg/kg dry**	**0.30**	**0.050**	**1**	***6010D**	**10/6/17 6:20**	**JAB**	**P7J0081**
Lead	**18**	**mg/kg dry**	**0.30**	**0.055**	**1**	***6010D**	**10/6/17 6:20**	**JAB**	**P7J0081**
Selenium	BRL	mg/kg dry	0.60	0.14	1	*6010D	10/6/17 6:20	JAB	P7J0081
Silver	BRL	mg/kg dry	0.30	0.0074	1	*6010D	10/6/17 6:20	JAB	P7J0081
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00041	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00033	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00044	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00014	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,1-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00022	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00027	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00028	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00063	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00037	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00023	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00031	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00037	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00033	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00025	1	*8260B	10/6/17 21:46	ANG	P7J0116
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 21:46	ANG	P7J0116
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 21:46	ANG	P7J0116
2-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00026	1	*8260B	10/6/17 21:46	ANG	P7J0116
4-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 21:46	ANG	P7J0116

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-4)
Prism Sample ID: 7090438-04
Prism Work Order: 7090438
Time Collected: 09/26/17 16:35
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Isopropyltoluene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 21:46	ANG	P7J0116
Acetone	BRL	mg/kg dry	0.050	0.0012	1	*8260B	10/6/17 21:46	ANG	P7J0116
Benzene	BRL	mg/kg dry	0.0030	0.00029	1	*8260B	10/6/17 21:46	ANG	P7J0116
Bromobenzene	BRL	mg/kg dry	0.0050	0.00041	1	*8260B	10/6/17 21:46	ANG	P7J0116
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00027	1	*8260B	10/6/17 21:46	ANG	P7J0116
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00028	1	*8260B	10/6/17 21:46	ANG	P7J0116
Bromoform	BRL	mg/kg dry	0.0050	0.00056	1	*8260B	10/6/17 21:46	ANG	P7J0116
Bromomethane	BRL	mg/kg dry	0.0099	0.00061	1	*8260B	10/6/17 21:46	ANG	P7J0116
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00025	1	*8260B	10/6/17 21:46	ANG	P7J0116
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00026	1	*8260B	10/6/17 21:46	ANG	P7J0116
Chloroethane	BRL	mg/kg dry	0.0099	0.00041	1	*8260B	10/6/17 21:46	ANG	P7J0116
Chloroform	BRL	mg/kg dry	0.0050	0.00036	1	*8260B	10/6/17 21:46	ANG	P7J0116
Chloromethane	BRL	mg/kg dry	0.0050	0.00033	1	*8260B	10/6/17 21:46	ANG	P7J0116
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00021	1	*8260B	10/6/17 21:46	ANG	P7J0116
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00017	1	*8260B	10/6/17 21:46	ANG	P7J0116
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 21:46	ANG	P7J0116
Dichlorodifluoromethane	BRL	mg/kg dry	0.0050	0.00022	1	*8260B	10/6/17 21:46	ANG	P7J0116
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00019	1	*8260B	10/6/17 21:46	ANG	P7J0116
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 21:46	ANG	P7J0116
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0050	0.00029	1	*8260B	10/6/17 21:46	ANG	P7J0116
m,p-Xylenes	BRL	mg/kg dry	0.0099	0.00046	1	*8260B	10/6/17 21:46	ANG	P7J0116
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.00045	1	*8260B	10/6/17 21:46	ANG	P7J0116
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.099	0.00045	1	*8260B	10/6/17 21:46	ANG	P7J0116
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.050	0.00042	1	*8260B	10/6/17 21:46	ANG	P7J0116
Methylene Chloride	BRL	mg/kg dry	0.0099	0.00028	1	*8260B	10/6/17 21:46	ANG	P7J0116
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0099	0.00016	1	*8260B	10/6/17 21:46	ANG	P7J0116
Naphthalene	BRL	mg/kg dry	0.0099	0.00016	1	*8260B	10/6/17 21:46	ANG	P7J0116
n-Butylbenzene	BRL	mg/kg dry	0.0050	0.00025	1	*8260B	10/6/17 21:46	ANG	P7J0116
n-Propylbenzene	BRL	mg/kg dry	0.0050	0.00029	1	*8260B	10/6/17 21:46	ANG	P7J0116
o-Xylene	BRL	mg/kg dry	0.0050	0.00020	1	*8260B	10/6/17 21:46	ANG	P7J0116
sec-Butylbenzene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 21:46	ANG	P7J0116
Styrene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 21:46	ANG	P7J0116
tert-Butylbenzene	BRL	mg/kg dry	0.0050	0.00017	1	*8260B	10/6/17 21:46	ANG	P7J0116
Tetrachloroethylene	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 21:46	ANG	P7J0116
Toluene	BRL	mg/kg dry	0.0050	0.00028	1	*8260B	10/6/17 21:46	ANG	P7J0116
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00030	1	*8260B	10/6/17 21:46	ANG	P7J0116
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00026	1	*8260B	10/6/17 21:46	ANG	P7J0116
Trichloroethylene	BRL	mg/kg dry	0.0050	0.00032	1	*8260B	10/6/17 21:46	ANG	P7J0116
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00032	1	*8260B	10/6/17 21:46	ANG	P7J0116
Vinyl acetate	BRL	mg/kg dry	0.025	0.00068	1	*8260B	10/6/17 21:46	ANG	P7J0116
Vinyl chloride	BRL	mg/kg dry	0.0050	0.00024	1	*8260B	10/6/17 21:46	ANG	P7J0116
Xylenes, total	BRL	mg/kg dry	0.015	0.00093	1	*8260B	10/6/17 21:46	ANG	P7J0116

Surrogate	Recovery	Control Limits

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-4)
Prism Sample ID: 7090438-04
Prism Work Order: 7090438
Time Collected: 09/26/17 16:35
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Bromofluorobenzene						*106 %*		*70-130*	
Dibromofluoromethane						*101 %*		*84-123*	
Toluene-d8						*114 %*		*76-129*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0116 - 5035										
Blank (P7J0116-BLK1)				Prepared & Analyzed: 10/06/17						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

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Hart & Hickman (Charlotte)
Attn: David Graham
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0116 - 5035										
Blank (P7J0116-BLK1)				Prepared & Analyzed: 10/06/17						
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*52.2*		*ug/L*	*50.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*50.5*		*ug/L*	*50.00*		*101*	*84-123*			
Surrogate: Toluene-d8	*57.8*		*ug/L*	*50.00*		*116*	*76-129*			
LCS (P7J0116-BS1)				Prepared & Analyzed: 10/06/17						
1,1,1,2-Tetrachloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	72-115			
1,1,1-Trichloroethane	0.0382	0.0050	mg/kg wet	0.05000		76	67-131			
1,1,2,2-Tetrachloroethane	0.0593	0.0050	mg/kg wet	0.05000		119	56-126			
1,1,2-Trichloroethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-133			
1,1-Dichloroethane	0.0402	0.0050	mg/kg wet	0.05000		80	74-127			
1,1-Dichloroethylene	0.0404	0.0050	mg/kg wet	0.05000		81	67-149			
1,1-Dichloropropylene	0.0391	0.0050	mg/kg wet	0.05000		78	71-130			
1,2,3-Trichlorobenzene	0.0521	0.0050	mg/kg wet	0.05000		104	68-130			
1,2,3-Trichloropropane	0.0566	0.0050	mg/kg wet	0.05000		113	60-137			
1,2,4-Trichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	66-125			
1,2,4-Trimethylbenzene	0.0549	0.0050	mg/kg wet	0.05000		110	69-129			
1,2-Dibromoethane	0.0484	0.0050	mg/kg wet	0.05000		97	70-132			
1,2-Dichlorobenzene	0.0532	0.0050	mg/kg wet	0.05000		106	72-123			
1,2-Dichloroethane	0.0426	0.0050	mg/kg wet	0.05000		85	68-128			
1,2-Dichloropropane	0.0429	0.0050	mg/kg wet	0.05000		86	73-130			
1,3,5-Trimethylbenzene	0.0542	0.0050	mg/kg wet	0.05000		108	69-128			
1,3-Dichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	71-120			
1,3-Dichloropropane	0.0487	0.0050	mg/kg wet	0.05000		97	75-124			
1,4-Dichlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	71-123			
2,2-Dichloropropane	0.0387	0.0050	mg/kg wet	0.05000		77	50-142			
2-Chlorotoluene	0.0546	0.0050	mg/kg wet	0.05000		109	67-124			
4-Chlorotoluene	0.0552	0.0050	mg/kg wet	0.05000		110	71-126			
4-Isopropyltoluene	0.0543	0.0050	mg/kg wet	0.05000		109	68-129			
Acetone	0.0935	0.050	mg/kg wet	0.1000		93	29-198			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0116 - 5035										
LCS (P7J0116-BS1)				Prepared & Analyzed: 10/06/17						
Benzene	0.0408	0.0030	mg/kg wet	0.05000		82	74-127			
Bromobenzene	0.0560	0.0050	mg/kg wet	0.05000		112	73-125			
Bromochloromethane	0.0392	0.0050	mg/kg wet	0.05000		78	72-134			
Bromodichloromethane	0.0411	0.0050	mg/kg wet	0.05000		82	75-122			
Bromoform	0.0472	0.0050	mg/kg wet	0.05000		94	66-135			
Bromomethane	0.0242	0.010	mg/kg wet	0.05000		48	20-180			
Carbon Tetrachloride	0.0386	0.0050	mg/kg wet	0.05000		77	64-143			
Chlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	74-118			
Chloroethane	0.0461	0.010	mg/kg wet	0.05000		92	33-149			
Chloroform	0.0414	0.0050	mg/kg wet	0.05000		83	73-127			
Chloromethane	0.0292	0.0050	mg/kg wet	0.05000		58	45-143			
cis-1,2-Dichloroethylene	0.0409	0.0050	mg/kg wet	0.05000		82	76-134			
cis-1,3-Dichloropropylene	0.0421	0.0050	mg/kg wet	0.05000		84	71-125			
Dibromochloromethane	0.0474	0.0050	mg/kg wet	0.05000		95	73-122			
Dichlorodifluoromethane	0.0354	0.0050	mg/kg wet	0.05000		71	26-146			
Ethylbenzene	0.0464	0.0050	mg/kg wet	0.05000		93	74-128			
Isopropyl Ether	0.0437	0.0050	mg/kg wet	0.05000		87	59-159			
Isopropylbenzene (Cumene)	0.0547	0.0050	mg/kg wet	0.05000		109	68-126			
m,p-Xylenes	0.0941	0.010	mg/kg wet	0.1000		94	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0548	0.050	mg/kg wet	0.05000		110	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0429	0.10	mg/kg wet	0.05000		86	63-149			
Methyl Isobutyl Ketone	0.0466	0.050	mg/kg wet	0.05000		93	57-162			
Methylene Chloride	0.0400	0.010	mg/kg wet	0.05000		80	74-129			
Methyl-tert-Butyl Ether	0.0423	0.010	mg/kg wet	0.05000		85	70-130			
Naphthalene	0.0563	0.010	mg/kg wet	0.05000		113	57-157			
n-Butylbenzene	0.0555	0.0050	mg/kg wet	0.05000		111	65-135			
n-Propylbenzene	0.0551	0.0050	mg/kg wet	0.05000		110	67-130			
o-Xylene	0.0472	0.0050	mg/kg wet	0.05000		94	74-126			
sec-Butylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	66-131			
Styrene	0.0480	0.0050	mg/kg wet	0.05000		96	77-121			
tert-Butylbenzene	0.0533	0.0050	mg/kg wet	0.05000		107	67-132			
Tetrachloroethylene	0.0367	0.0050	mg/kg wet	0.05000		73	68-130			
Toluene	0.0434	0.0050	mg/kg wet	0.05000		87	71-129			
trans-1,2-Dichloroethylene	0.0396	0.0050	mg/kg wet	0.05000		79	73-132			
trans-1,3-Dichloropropylene	0.0422	0.0050	mg/kg wet	0.05000		84	68-123			
Trichloroethylene	0.0380	0.0050	mg/kg wet	0.05000		76	75-133			
Trichlorofluoromethane	0.0483	0.0050	mg/kg wet	0.05000		97	44-146			
Vinyl acetate	0.0505	0.025	mg/kg wet	0.05000		101	85-161			
Vinyl chloride	0.0384	0.0050	mg/kg wet	0.05000		77	48-147			
Xylenes, total	0.141	0.015	mg/kg wet	0.1500		94	74-126			
Surrogate: 4-Bromofluorobenzene	*51.0*		*ug/L*	*50.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*49.4*		*ug/L*	*50.00*		*99*	*84-123*			
Surrogate: Toluene-d8	*57.6*		*ug/L*	*50.00*		*115*	*76-129*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0116 - 5035										
LCS Dup (P7J0116-BSD1)				Prepared & Analyzed: 10/06/17						
1,1,1,2-Tetrachloroethane	0.0444	0.0050	mg/kg wet	0.05000		89	72-115	3	20	
1,1,1-Trichloroethane	0.0332	0.0050	mg/kg wet	0.05000		66	67-131	14	20	L2
1,1,2,2-Tetrachloroethane	0.0578	0.0050	mg/kg wet	0.05000		116	56-126	3	20	
1,1,2-Trichloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-133	2	20	
1,1-Dichloroethane	0.0366	0.0050	mg/kg wet	0.05000		73	74-127	9	20	L2
1,1-Dichloroethylene	0.0345	0.0050	mg/kg wet	0.05000		69	67-149	16	20	
1,1-Dichloropropylene	0.0338	0.0050	mg/kg wet	0.05000		68	71-130	15	20	L2
1,2,3-Trichlorobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	68-130	2	20	
1,2,3-Trichloropropane	0.0567	0.0050	mg/kg wet	0.05000		113	60-137	0.3	20	
1,2,4-Trichlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	66-125	5	20	
1,2,4-Trimethylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	69-129	7	20	
1,2-Dibromoethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-132	0.9	20	
1,2-Dichlorobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	72-123	3	20	
1,2-Dichloroethane	0.0413	0.0050	mg/kg wet	0.05000		83	68-128	3	20	
1,2-Dichloropropane	0.0404	0.0050	mg/kg wet	0.05000		81	73-130	6	20	
1,3,5-Trimethylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	69-128	8	20	
1,3-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	71-120	5	20	
1,3-Dichloropropane	0.0483	0.0050	mg/kg wet	0.05000		97	75-124	0.8	20	
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	71-123	5	20	
2,2-Dichloropropane	0.0340	0.0050	mg/kg wet	0.05000		68	50-142	13	20	
2-Chlorotoluene	0.0507	0.0050	mg/kg wet	0.05000		101	67-124	7	20	
4-Chlorotoluene	0.0522	0.0050	mg/kg wet	0.05000		104	71-126	5	20	
4-Isopropyltoluene	0.0489	0.0050	mg/kg wet	0.05000		98	68-129	10	20	
Acetone	0.0893	0.050	mg/kg wet	0.1000		89	29-198	5	20	
Benzene	0.0370	0.0030	mg/kg wet	0.05000		74	74-127	10	20	
Bromobenzene	0.0537	0.0050	mg/kg wet	0.05000		107	73-125	4	20	
Bromochloromethane	0.0386	0.0050	mg/kg wet	0.05000		77	72-134	2	20	
Bromodichloromethane	0.0393	0.0050	mg/kg wet	0.05000		79	75-122	5	20	
Bromoform	0.0473	0.0050	mg/kg wet	0.05000		95	66-135	0.2	20	
Bromomethane	0.0234	0.010	mg/kg wet	0.05000		47	20-180	3	20	
Carbon Tetrachloride	0.0322	0.0050	mg/kg wet	0.05000		64	64-143	18	20	
Chlorobenzene	0.0428	0.0050	mg/kg wet	0.05000		86	74-118	5	20	
Chloroethane	0.0425	0.010	mg/kg wet	0.05000		85	33-149	8	20	
Chloroform	0.0384	0.0050	mg/kg wet	0.05000		77	73-127	8	20	
Chloromethane	0.0311	0.0050	mg/kg wet	0.05000		62	45-143	7	20	
cis-1,2-Dichloroethylene	0.0373	0.0050	mg/kg wet	0.05000		75	76-134	9	20	L2
cis-1,3-Dichloropropylene	0.0404	0.0050	mg/kg wet	0.05000		81	71-125	4	20	
Dibromochloromethane	0.0477	0.0050	mg/kg wet	0.05000		95	73-122	0.6	20	
Dichlorodifluoromethane	0.0296	0.0050	mg/kg wet	0.05000		59	26-146	18	20	
Ethylbenzene	0.0430	0.0050	mg/kg wet	0.05000		86	74-128	8	20	
Isopropyl Ether	0.0415	0.0050	mg/kg wet	0.05000		83	59-159	5	20	
Isopropylbenzene (Cumene)	0.0493	0.0050	mg/kg wet	0.05000		99	68-126	10	20	
m,p-Xylenes	0.0878	0.010	mg/kg wet	0.1000		88	75-124	7	20	
Methyl Butyl Ketone (2-Hexanone)	0.0538	0.050	mg/kg wet	0.05000		108	61-157	2	20	
Methyl Ethyl Ketone (2-Butanone)	0.0418	0.10	mg/kg wet	0.05000		84	63-149	3	20	
Methyl Isobutyl Ketone	0.0449	0.050	mg/kg wet	0.05000		90	57-162	4	20	

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0116 - 5035										
LCS Dup (P7J0116-BSD1)				Prepared & Analyzed: 10/06/17						
Methylene Chloride	0.0378	0.010	mg/kg wet	0.05000		76	74-129	6	20	
Methyl-tert-Butyl Ether	0.0411	0.010	mg/kg wet	0.05000		82	70-130	3	20	
Naphthalene	0.0548	0.010	mg/kg wet	0.05000		110	57-157	3	20	
n-Butylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	65-135	12	20	
n-Propylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	67-130	10	20	
o-Xylene	0.0445	0.0050	mg/kg wet	0.05000		89	74-126	6	20	
sec-Butylbenzene	0.0486	0.0050	mg/kg wet	0.05000		97	66-131	11	20	
Styrene	0.0460	0.0050	mg/kg wet	0.05000		92	77-121	4	20	
tert-Butylbenzene	0.0480	0.0050	mg/kg wet	0.05000		96	67-132	10	20	
Tetrachloroethylene	0.0323	0.0050	mg/kg wet	0.05000		65	68-130	13	20	L2
Toluene	0.0393	0.0050	mg/kg wet	0.05000		79	71-129	10	20	
trans-1,2-Dichloroethylene	0.0348	0.0050	mg/kg wet	0.05000		70	73-132	13	20	L2
trans-1,3-Dichloropropylene	0.0408	0.0050	mg/kg wet	0.05000		82	68-123	3	20	
Trichloroethylene	0.0342	0.0050	mg/kg wet	0.05000		68	75-133	11	20	L2
Trichlorofluoromethane	0.0403	0.0050	mg/kg wet	0.05000		81	44-146	18	20	
Vinyl acetate	0.0484	0.025	mg/kg wet	0.05000		97	85-161	4	20	
Vinyl chloride	0.0337	0.0050	mg/kg wet	0.05000		67	48-147	13	20	
Xylenes, total	0.132	0.015	mg/kg wet	0.1500		88	74-126	6	20	
Surrogate: 4-Bromofluorobenzene	*51.5*		*ug/L*	*50.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*49.4*		*ug/L*	*50.00*		*99*	*84-123*			
Surrogate: Toluene-d8	*58.8*		*ug/L*	*50.00*		*118*	*76-129*			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
Blank (P7J0084-BLK1)				Prepared: 10/05/17 Analyzed: 10/06/17						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
Blank (P7J0084-BLK1)				Prepared: 10/05/17 Analyzed: 10/06/17						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.54*		*mg/kg wet*	*3.333*		*76*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.20*		*mg/kg wet*	*1.667*		*72*	*44-115*			
Surrogate: 2-Fluorophenol	*2.47*		*mg/kg wet*	*3.333*		*74*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.12*		*mg/kg wet*	*1.667*		*67*	*37-122*			
Surrogate: Phenol-d5	*2.41*		*mg/kg wet*	*3.333*		*72*	*34-121*			
Surrogate: Terphenyl-d14	*1.53*		*mg/kg wet*	*1.667*		*92*	*54-127*			
LCS (P7J0084-BS1)				Prepared: 10/05/17 Analyzed: 10/06/17						
1,2,4-Trichlorobenzene	0.797	0.33	mg/kg wet	1.667		48	34-118			
1,2-Dichlorobenzene	0.787	0.33	mg/kg wet	1.667		47	33-117			
1,3-Dichlorobenzene	0.783	0.33	mg/kg wet	1.667		47	30-115			
1,4-Dichlorobenzene	0.776	0.33	mg/kg wet	1.667		47	31-115			
1-Methylnaphthalene	0.829	0.33	mg/kg wet	1.667		50	40-119			
2,4,6-Trichlorophenol	0.914	0.33	mg/kg wet	1.667		55	39-126			
2,4-Dichlorophenol	0.852	0.33	mg/kg wet	1.667		51	40-122			
2,4-Dimethylphenol	0.988	0.33	mg/kg wet	1.667		59	30-127			
2,4-Dinitrophenol	0.946	0.33	mg/kg wet	1.667		57	27-129			
2,4-Dinitrotoluene	0.961	0.33	mg/kg wet	1.667		58	48-126			
2,6-Dinitrotoluene	0.939	0.33	mg/kg wet	1.667		56	46-124			
2-Chloronaphthalene	0.896	0.33	mg/kg wet	1.667		54	41-114			
2-Chlorophenol	0.898	0.33	mg/kg wet	1.667		54	34-121			
2-Methylnaphthalene	0.806	0.33	mg/kg wet	1.667		48	38-122			
2-Methylphenol	0.951	0.33	mg/kg wet	1.667		57	32-122			
2-Nitrophenol	0.784	0.33	mg/kg wet	1.667		47	36-123			
3,3'-Dichlorobenzidine	1.07	0.33	mg/kg wet	1.667		64	22-121			
3/4-Methylphenol	0.829	0.33	mg/kg wet	1.667		50	34-119			
4,6-Dinitro-2-methylphenol	0.869	0.33	mg/kg wet	1.667		52	29-132			
4-Bromophenyl phenyl ether	0.898	0.33	mg/kg wet	1.667		54	46-124			
4-Chloro-3-methylphenol	0.906	0.33	mg/kg wet	1.667		54	45-122			
4-Chloroaniline	0.938	0.33	mg/kg wet	1.667		56	17-106			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
LCS (P7J0084-BS1)				Prepared: 10/05/17 Analyzed: 10/06/17						
4-Chlorophenyl phenyl ether	0.903	0.33	mg/kg wet	1.667		54	45-121			
4-Nitrophenol	0.964	0.33	mg/kg wet	1.667		58	30-132			
Acenaphthene	0.915	0.33	mg/kg wet	1.667		55	40-123			
Acenaphthylene	0.978	0.33	mg/kg wet	1.667		59	32-132			
Anthracene	1.02	0.33	mg/kg wet	1.667		61	47-123			
Azobenzene	0.941	0.33	mg/kg wet	1.667		56	39-125			
Benzo(a)anthracene	1.04	0.33	mg/kg wet	1.667		62	49-126			
Benzo(a)pyrene	0.988	0.33	mg/kg wet	1.667		59	45-129			
Benzo(b)fluoranthene	0.995	0.33	mg/kg wet	1.667		60	45-132			
Benzo(g,h,i)perylene	1.00	0.33	mg/kg wet	1.667		60	43-134			
Benzo(k)fluoranthene	0.967	0.33	mg/kg wet	1.667		58	47-132			
Benzoic Acid	0.670	0.33	mg/kg wet	1.667		40	10-83			
Benzyl alcohol	0.900	0.33	mg/kg wet	1.667		54	29-122			
bis(2-Chloroethoxy)methane	0.791	0.33	mg/kg wet	1.667		47	36-121			
Bis(2-Chloroethyl)ether	0.696	0.33	mg/kg wet	1.667		42	31-120			
Bis(2-chloroisopropyl)ether	0.776	0.33	mg/kg wet	1.667		47	33-131			
Bis(2-Ethylhexyl)phthalate	1.05	0.33	mg/kg wet	1.667		63	51-133			
Butyl benzyl phthalate	1.03	0.33	mg/kg wet	1.667		62	48-132			
Chrysene	1.06	0.33	mg/kg wet	1.667		64	50-124			
Dibenzo(a,h)anthracene	0.550	0.33	mg/kg wet	1.667		33	45-134			L
Dibenzofuran	0.927	0.33	mg/kg wet	1.667		56	44-120			
Diethyl phthalate	0.945	0.33	mg/kg wet	1.667		57	50-124			
Dimethyl phthalate	0.930	0.33	mg/kg wet	1.667		56	48-124			
Di-n-butyl phthalate	0.997	0.33	mg/kg wet	1.667		60	51-128			
Di-n-octyl phthalate	0.975	0.33	mg/kg wet	1.667		58	45-140			
Fluoranthene	0.983	0.33	mg/kg wet	1.667		59	50-127			
Fluorene	0.921	0.33	mg/kg wet	1.667		55	43-125			
Hexachlorobenzene	0.955	0.33	mg/kg wet	1.667		57	45-122			
Hexachlorobutadiene	0.806	0.33	mg/kg wet	1.667		48	32-123			
Hexachlorocyclopentadiene	0.829	0.33	mg/kg wet	1.667		50	32-117			
Hexachloroethane	0.751	0.33	mg/kg wet	1.667		45	28-117			
Indeno(1,2,3-cd)pyrene	1.06	0.33	mg/kg wet	1.667		63	45-133			
Isophorone	0.870	0.33	mg/kg wet	1.667		52	30-122			
Naphthalene	0.800	0.33	mg/kg wet	1.667		48	35-123			
Nitrobenzene	0.717	0.33	mg/kg wet	1.667		43	34-122			
N-Nitroso-di-n-propylamine	0.913	0.33	mg/kg wet	1.667		55	36-120			
N-Nitrosodiphenylamine	1.22	0.33	mg/kg wet	1.667		73	38-127			
Pentachlorophenol	1.16	0.33	mg/kg wet	1.667		70	25-133			
Phenanthrene	0.999	0.33	mg/kg wet	1.667		60	50-121			
Phenol	0.876	0.33	mg/kg wet	1.667		53	34-121			
Pyrene	1.05	0.33	mg/kg wet	1.667		63	47-127			
Surrogate: 2,4,6-Tribromophenol	*1.98*		*mg/kg wet*	*3.333*		*59*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*0.920*		*mg/kg wet*	*1.667*		*55*	*44-115*			
Surrogate: 2-Fluorophenol	*1.84*		*mg/kg wet*	*3.333*		*55*	*35-115*			
Surrogate: Nitrobenzene-d5	*0.782*		*mg/kg wet*	*1.667*		*47*	*37-122*			
Surrogate: Phenol-d5	*1.81*		*mg/kg wet*	*3.333*		*54*	*34-121*			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
LCS (P7J0084-BS1)				Prepared: 10/05/17		Analyzed: 10/06/17				
Surrogate: Terphenyl-d14	*1.19*		*mg/kg wet*	*1.667*		*71*	*54-127*			
LCS (P7J0084-BS2)				Prepared: 10/05/17		Analyzed: 10/06/17				
1,2,4-Trichlorobenzene	1.65	0.33	mg/kg wet	3.333		50	34-118			
1,2-Dichlorobenzene	1.84	0.33	mg/kg wet	3.333		55	33-117			
1,3-Dichlorobenzene	1.80	0.33	mg/kg wet	3.333		54	30-115			
1,4-Dichlorobenzene	1.77	0.33	mg/kg wet	3.333		53	31-115			
1-Methylnaphthalene	1.74	0.33	mg/kg wet	3.333		52	40-119			
2,4,6-Trichlorophenol	2.19	0.33	mg/kg wet	3.333		66	39-126			
2,4-Dichlorophenol	1.82	0.33	mg/kg wet	3.333		55	40-122			
2,4-Dimethylphenol	2.08	0.33	mg/kg wet	3.333		63	30-127			
2,4-Dinitrophenol	1.98	0.33	mg/kg wet	3.333		59	27-129			
2,4-Dinitrotoluene	2.17	0.33	mg/kg wet	3.333		65	48-126			
2,6-Dinitrotoluene	2.24	0.33	mg/kg wet	3.333		67	46-124			
2-Chloronaphthalene	2.06	0.33	mg/kg wet	3.333		62	41-114			
2-Chlorophenol	2.16	0.33	mg/kg wet	3.333		65	34-121			
2-Methylnaphthalene	1.72	0.33	mg/kg wet	3.333		52	38-122			
2-Methylphenol	2.24	0.33	mg/kg wet	3.333		67	32-122			
2-Nitrophenol	1.68	0.33	mg/kg wet	3.333		50	36-123			
3,3'-Dichlorobenzidine	2.39	0.33	mg/kg wet	3.333		72	22-121			
3/4-Methylphenol	1.99	0.33	mg/kg wet	3.333		60	34-119			
4,6-Dinitro-2-methylphenol	2.14	0.33	mg/kg wet	3.333		64	29-132			
4-Bromophenyl phenyl ether	2.04	0.33	mg/kg wet	3.333		61	46-124			
4-Chloro-3-methylphenol	1.90	0.33	mg/kg wet	3.333		57	45-122			
4-Chloroaniline	2.06	0.33	mg/kg wet	3.333		62	17-106			
4-Chlorophenyl phenyl ether	2.09	0.33	mg/kg wet	3.333		63	45-121			
4-Nitrophenol	2.29	0.33	mg/kg wet	3.333		69	30-132			
Acenaphthene	2.10	0.33	mg/kg wet	3.333		63	40-123			
Acenaphthylene	2.19	0.33	mg/kg wet	3.333		66	32-132			
Anthracene	2.18	0.33	mg/kg wet	3.333		66	47-123			
Azobenzene	2.04	0.33	mg/kg wet	3.333		61	39-125			
Benzo(a)anthracene	2.28	0.33	mg/kg wet	3.333		68	49-126			
Benzo(a)pyrene	2.21	0.33	mg/kg wet	3.333		66	45-129			
Benzo(b)fluoranthene	2.19	0.33	mg/kg wet	3.333		66	45-132			
Benzo(g,h,i)perylene	2.21	0.33	mg/kg wet	3.333		66	43-134			
Benzo(k)fluoranthene	2.22	0.33	mg/kg wet	3.333		67	47-132			
Benzoic Acid	1.54	0.33	mg/kg wet	3.333		46	10-83			
Benzyl alcohol	2.16	0.33	mg/kg wet	3.333		65	29-122			
bis(2-Chloroethoxy)methane	1.66	0.33	mg/kg wet	3.333		50	36-121			
Bis(2-Chloroethyl)ether	1.62	0.33	mg/kg wet	3.333		49	31-120			
Bis(2-chloroisopropyl)ether	1.77	0.33	mg/kg wet	3.333		53	33-131			
Bis(2-Ethylhexyl)phthalate	2.28	0.33	mg/kg wet	3.333		68	51-133			
Butyl benzyl phthalate	2.24	0.33	mg/kg wet	3.333		67	48-132			
Chrysene	2.30	0.33	mg/kg wet	3.333		69	50-124			
Dibenzo(a,h)anthracene	1.26	0.33	mg/kg wet	3.333		38	45-134			L
Dibenzofuran	2.13	0.33	mg/kg wet	3.333		64	44-120			
Diethyl phthalate	2.08	0.33	mg/kg wet	3.333		63	50-124			

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
LCS (P7J0084-BS2)				Prepared: 10/05/17 Analyzed: 10/06/17						
Dimethyl phthalate	2.09	0.33	mg/kg wet	3.333		63	48-124			
Di-n-butyl phthalate	2.11	0.33	mg/kg wet	3.333		63	51-128			
Di-n-octyl phthalate	2.21	0.33	mg/kg wet	3.333		66	45-140			
Fluoranthene	2.13	0.33	mg/kg wet	3.333		64	50-127			
Fluorene	2.13	0.33	mg/kg wet	3.333		64	43-125			
Hexachlorobenzene	2.11	0.33	mg/kg wet	3.333		63	45-122			
Hexachlorobutadiene	1.68	0.33	mg/kg wet	3.333		51	32-123			
Hexachlorocyclopentadiene	2.12	0.33	mg/kg wet	3.333		64	32-117			
Hexachloroethane	1.73	0.33	mg/kg wet	3.333		52	28-117			
Indeno(1,2,3-cd)pyrene	2.40	0.33	mg/kg wet	3.333		72	45-133			
Isophorone	1.84	0.33	mg/kg wet	3.333		55	30-122			
Naphthalene	1.69	0.33	mg/kg wet	3.333		51	35-123			
Nitrobenzene	1.49	0.33	mg/kg wet	3.333		45	34-122			
N-Nitroso-di-n-propylamine	2.10	0.33	mg/kg wet	3.333		63	36-120			
N-Nitrosodiphenylamine	2.67	0.33	mg/kg wet	3.333		80	38-127			
Pentachlorophenol	2.53	0.33	mg/kg wet	3.333		76	25-133			
Phenanthrene	2.16	0.33	mg/kg wet	3.333		65	50-121			
Phenol	2.09	0.33	mg/kg wet	3.333		63	34-121			
Pyrene	2.25	0.33	mg/kg wet	3.333		68	47-127			
Surrogate: 2,4,6-Tribromophenol	*2.30*		*mg/kg wet*	*3.333*		*69*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.07*		*mg/kg wet*	*1.667*		*64*	*44-115*			
Surrogate: 2-Fluorophenol	*2.15*		*mg/kg wet*	*3.333*		*65*	*35-115*			
Surrogate: Nitrobenzene-d5	*0.821*		*mg/kg wet*	*1.667*		*49*	*37-122*			
Surrogate: Phenol-d5	*2.14*		*mg/kg wet*	*3.333*		*64*	*34-121*			
Surrogate: Terphenyl-d14	*1.30*		*mg/kg wet*	*1.667*		*78*	*54-127*			
Matrix Spike (P7J0084-MS1)		**Source: 7090438-03**		Prepared: 10/05/17 Analyzed: 10/06/17						
1,2,4-Trichlorobenzene	1.17	0.41	mg/kg dry	2.086	BRL	56	34-118			
1,2-Dichlorobenzene	1.19	0.41	mg/kg dry	2.086	BRL	57	33-117			
1,3-Dichlorobenzene	1.19	0.41	mg/kg dry	2.086	BRL	57	30-115			
1,4-Dichlorobenzene	1.17	0.41	mg/kg dry	2.086	BRL	56	31-115			
1-Methylnaphthalene	1.26	0.41	mg/kg dry	2.086	BRL	60	40-119			
2,4,6-Trichlorophenol	1.36	0.41	mg/kg dry	2.086	BRL	65	39-126			
2,4-Dichlorophenol	1.27	0.41	mg/kg dry	2.086	BRL	61	40-122			
2,4-Dimethylphenol	1.24	0.41	mg/kg dry	2.086	BRL	59	30-127			
2,4-Dinitrophenol	1.30	0.41	mg/kg dry	2.086	BRL	62	27-129			
2,4-Dinitrotoluene	1.33	0.41	mg/kg dry	2.086	BRL	64	48-126			
2,6-Dinitrotoluene	1.36	0.41	mg/kg dry	2.086	BRL	65	46-124			
2-Chloronaphthalene	1.36	0.41	mg/kg dry	2.086	BRL	65	41-114			
2-Chlorophenol	1.39	0.41	mg/kg dry	2.086	BRL	67	34-121			
2-Methylnaphthalene	1.23	0.41	mg/kg dry	2.086	BRL	59	38-122			
2-Methylphenol	1.34	0.41	mg/kg dry	2.086	BRL	64	32-122			
2-Nitrophenol	1.14	0.41	mg/kg dry	2.086	BRL	55	36-123			
3,3'-Dichlorobenzidine	1.17	0.41	mg/kg dry	2.086	BRL	56	22-121			
3/4-Methylphenol	1.23	0.41	mg/kg dry	2.086	BRL	59	34-119			
4,6-Dinitro-2-methylphenol	1.24	0.41	mg/kg dry	2.086	BRL	60	29-132			
4-Bromophenyl phenyl ether	1.33	0.41	mg/kg dry	2.086	BRL	64	46-124			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
Matrix Spike (P7J0084-MS1)		**Source: 7090438-03**		Prepared: 10/05/17	Analyzed: 10/06/17					
4-Chloro-3-methylphenol	1.33	0.41	mg/kg dry	2.086	BRL	64	45-122			
4-Chloroaniline	1.36	0.41	mg/kg dry	2.086	BRL	65	17-106			
4-Chlorophenyl phenyl ether	1.34	0.41	mg/kg dry	2.086	BRL	64	45-121			
4-Nitrophenol	1.43	0.41	mg/kg dry	2.086	BRL	68	30-132			
Acenaphthene	1.38	0.41	mg/kg dry	2.086	BRL	66	40-123			
Acenaphthylene	1.42	0.41	mg/kg dry	2.086	BRL	68	32-132			
Anthracene	1.43	0.41	mg/kg dry	2.086	BRL	69	47-123			
Azobenzene	1.35	0.41	mg/kg dry	2.086	BRL	65	39-125			
Benzo(a)anthracene	1.48	0.41	mg/kg dry	2.086	BRL	71	49-126			
Benzo(a)pyrene	1.42	0.41	mg/kg dry	2.086	BRL	68	45-129			
Benzo(b)fluoranthene	1.49	0.41	mg/kg dry	2.086	BRL	71	45-132			
Benzo(g,h,i)perylene	1.45	0.41	mg/kg dry	2.086	BRL	70	43-134			
Benzo(k)fluoranthene	1.41	0.41	mg/kg dry	2.086	BRL	68	47-132			
Benzoic Acid	1.29	0.41	mg/kg dry	2.086	BRL	62	10-83			
Benzyl alcohol	1.44	0.41	mg/kg dry	2.086	BRL	69	29-122			
bis(2-Chloroethoxy)methane	1.19	0.41	mg/kg dry	2.086	BRL	57	36-121			
Bis(2-Chloroethyl)ether	1.09	0.41	mg/kg dry	2.086	BRL	52	31-120			
Bis(2-chloroisopropyl)ether	1.18	0.41	mg/kg dry	2.086	BRL	57	33-131			
Bis(2-Ethylhexyl)phthalate	1.51	0.41	mg/kg dry	2.086	BRL	72	51-133			
Butyl benzyl phthalate	1.50	0.41	mg/kg dry	2.086	BRL	72	48-132			
Chrysene	1.53	0.41	mg/kg dry	2.086	BRL	73	50-124			
Dibenzo(a,h)anthracene	0.803	0.41	mg/kg dry	2.086	BRL	38	45-134			M
Dibenzofuran	1.40	0.41	mg/kg dry	2.086	BRL	67	44-120			
Diethyl phthalate	1.38	0.41	mg/kg dry	2.086	BRL	66	50-124			
Dimethyl phthalate	1.38	0.41	mg/kg dry	2.086	BRL	66	48-124			
Di-n-butyl phthalate	1.43	0.41	mg/kg dry	2.086	BRL	69	51-128			
Di-n-octyl phthalate	1.47	0.41	mg/kg dry	2.086	BRL	71	45-140			
Fluoranthene	1.43	0.41	mg/kg dry	2.086	BRL	68	50-127			
Fluorene	1.37	0.41	mg/kg dry	2.086	BRL	66	43-125			
Hexachlorobenzene	1.41	0.41	mg/kg dry	2.086	BRL	68	45-122			
Hexachlorobutadiene	1.19	0.41	mg/kg dry	2.086	BRL	57	32-123			
Hexachlorocyclopentadiene	1.28	0.41	mg/kg dry	2.086	BRL	61	32-117			
Hexachloroethane	1.12	0.41	mg/kg dry	2.086	BRL	54	28-117			
Indeno(1,2,3-cd)pyrene	1.55	0.41	mg/kg dry	2.086	BRL	74	45-133			
Isophorone	1.32	0.41	mg/kg dry	2.086	BRL	63	30-122			
Naphthalene	1.21	0.41	mg/kg dry	2.086	BRL	58	35-123			
Nitrobenzene	1.02	0.41	mg/kg dry	2.086	BRL	49	34-122			
N-Nitroso-di-n-propylamine	1.41	0.41	mg/kg dry	2.086	BRL	67	36-120			
N-Nitrosodiphenylamine	1.65	0.41	mg/kg dry	2.086	BRL	79	38-127			
Pentachlorophenol	1.72	0.41	mg/kg dry	2.086	BRL	82	25-133			
Phenanthrene	1.45	0.41	mg/kg dry	2.086	BRL	70	50-121			
Phenol	1.32	0.41	mg/kg dry	2.086	BRL	63	34-121			
Pyrene	1.53	0.41	mg/kg dry	2.086	BRL	73	47-127			
Surrogate: 2,4,6-Tribromophenol	*2.84*		*mg/kg dry*	*4.171*		*68*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.37*		*mg/kg dry*	*2.086*		*66*	*44-115*			
Surrogate: 2-Fluorophenol	*2.80*		*mg/kg dry*	*4.171*		*67*	*35-115*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
Matrix Spike (P7J0084-MS1)		**Source: 7090438-03**		Prepared: 10/05/17	Analyzed: 10/06/17					
Surrogate: Nitrobenzene-d5	*1.14*		*mg/kg dry*	*2.086*		*55*	*37-122*			
Surrogate: Phenol-d5	*2.74*		*mg/kg dry*	*4.171*		*66*	*34-121*			
Surrogate: Terphenyl-d14	*1.70*		*mg/kg dry*	*2.086*		*82*	*54-127*			
Matrix Spike Dup (P7J0084-MSD1)		**Source: 7090438-03**		Prepared: 10/05/17	Analyzed: 10/06/17					
1,2,4-Trichlorobenzene	1.15	0.41	mg/kg dry	2.088	BRL	55	34-118	2	20	
1,2-Dichlorobenzene	1.17	0.41	mg/kg dry	2.088	BRL	56	33-117	2	20	
1,3-Dichlorobenzene	1.13	0.41	mg/kg dry	2.088	BRL	54	30-115	5	20	
1,4-Dichlorobenzene	1.14	0.41	mg/kg dry	2.088	BRL	54	31-115	3	20	
1-Methylnaphthalene	1.27	0.41	mg/kg dry	2.088	BRL	61	40-119	0.7	20	
2,4,6-Trichlorophenol	1.43	0.41	mg/kg dry	2.088	BRL	68	39-126	5	20	
2,4-Dichlorophenol	1.29	0.41	mg/kg dry	2.088	BRL	62	40-122	2	20	
2,4-Dimethylphenol	1.27	0.41	mg/kg dry	2.088	BRL	61	30-127	2	20	
2,4-Dinitrophenol	1.29	0.41	mg/kg dry	2.088	BRL	62	27-129	0.2	20	
2,4-Dinitrotoluene	1.40	0.41	mg/kg dry	2.088	BRL	67	48-126	5	20	
2,6-Dinitrotoluene	1.44	0.41	mg/kg dry	2.088	BRL	69	46-124	6	20	
2-Chloronaphthalene	1.42	0.41	mg/kg dry	2.088	BRL	68	41-114	4	20	
2-Chlorophenol	1.37	0.41	mg/kg dry	2.088	BRL	65	34-121	2	20	
2-Methylnaphthalene	1.25	0.41	mg/kg dry	2.088	BRL	60	38-122	1	20	
2-Methylphenol	1.42	0.41	mg/kg dry	2.088	BRL	68	32-122	6	20	
2-Nitrophenol	1.11	0.41	mg/kg dry	2.088	BRL	53	36-123	3	20	
3,3'-Dichlorobenzidine	1.31	0.41	mg/kg dry	2.088	BRL	63	22-121	11	20	
3/4-Methylphenol	1.23	0.41	mg/kg dry	2.088	BRL	59	34-119	0.4	20	
4,6-Dinitro-2-methylphenol	1.28	0.41	mg/kg dry	2.088	BRL	61	29-132	3	20	
4-Bromophenyl phenyl ether	1.44	0.41	mg/kg dry	2.088	BRL	69	46-124	8	20	
4-Chloro-3-methylphenol	1.39	0.41	mg/kg dry	2.088	BRL	67	45-122	5	20	
4-Chloroaniline	1.41	0.41	mg/kg dry	2.088	BRL	68	17-106	4	20	
4-Chlorophenyl phenyl ether	1.44	0.41	mg/kg dry	2.088	BRL	69	45-121	7	20	
4-Nitrophenol	1.49	0.41	mg/kg dry	2.088	BRL	72	30-132	5	20	
Acenaphthene	1.46	0.41	mg/kg dry	2.088	BRL	70	40-123	6	20	
Acenaphthylene	1.49	0.41	mg/kg dry	2.088	BRL	71	32-132	5	20	
Anthracene	1.55	0.41	mg/kg dry	2.088	BRL	74	47-123	8	20	
Azobenzene	1.47	0.41	mg/kg dry	2.088	BRL	70	39-125	8	20	
Benzo(a)anthracene	1.60	0.41	mg/kg dry	2.088	BRL	77	49-126	8	20	
Benzo(a)pyrene	1.53	0.41	mg/kg dry	2.088	BRL	73	45-129	7	20	
Benzo(b)fluoranthene	1.59	0.41	mg/kg dry	2.088	BRL	76	45-132	7	20	
Benzo(g,h,i)perylene	1.56	0.41	mg/kg dry	2.088	BRL	75	43-134	8	20	
Benzo(k)fluoranthene	1.52	0.41	mg/kg dry	2.088	BRL	73	47-132	7	20	
Benzoic Acid	1.30	0.41	mg/kg dry	2.088	BRL	62	10-83	0.6	20	
Benzyl alcohol	1.42	0.41	mg/kg dry	2.088	BRL	68	29-122	2	20	
bis(2-Chloroethoxy)methane	1.19	0.41	mg/kg dry	2.088	BRL	57	36-121	0.005	20	
Bis(2-Chloroethyl)ether	1.11	0.41	mg/kg dry	2.088	BRL	53	31-120	3	20	
Bis(2-chloroisopropyl)ether	1.16	0.41	mg/kg dry	2.088	BRL	55	33-131	2	20	
Bis(2-Ethylhexyl)phthalate	1.63	0.41	mg/kg dry	2.088	BRL	78	51-133	7	20	
Butyl benzyl phthalate	1.64	0.41	mg/kg dry	2.088	BRL	78	48-132	9	20	
Chrysene	1.65	0.41	mg/kg dry	2.088	BRL	79	50-124	8	20	
Dibenzo(a,h)anthracene	0.886	0.41	mg/kg dry	2.088	BRL	42	45-134	10	20	M

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0084 - 3546										
Matrix Spike Dup (P7J0084-MSD1)		**Source: 7090438-03**		Prepared: 10/05/17 Analyzed: 10/06/17						
Dibenzofuran	1.47	0.41	mg/kg dry	2.088	BRL	71	44-120	5	20	
Diethyl phthalate	1.47	0.41	mg/kg dry	2.088	BRL	71	50-124	6	20	
Dimethyl phthalate	1.47	0.41	mg/kg dry	2.088	BRL	70	48-124	6	20	
Di-n-butyl phthalate	1.54	0.41	mg/kg dry	2.088	BRL	74	51-128	7	20	
Di-n-octyl phthalate	1.57	0.41	mg/kg dry	2.088	BRL	75	45-140	6	20	
Fluoranthene	1.56	0.41	mg/kg dry	2.088	BRL	75	50-127	9	20	
Fluorene	1.47	0.41	mg/kg dry	2.088	BRL	70	43-125	7	20	
Hexachlorobenzene	1.52	0.41	mg/kg dry	2.088	BRL	73	45-122	7	20	
Hexachlorobutadiene	1.19	0.41	mg/kg dry	2.088	BRL	57	32-123	0.1	20	
Hexachlorocyclopentadiene	1.29	0.41	mg/kg dry	2.088	BRL	62	32-117	1	20	
Hexachloroethane	1.06	0.41	mg/kg dry	2.088	BRL	51	28-117	6	20	
Indeno(1,2,3-cd)pyrene	1.67	0.41	mg/kg dry	2.088	BRL	80	45-133	7	20	
Isophorone	1.33	0.41	mg/kg dry	2.088	BRL	64	30-122	1	20	
Naphthalene	1.23	0.41	mg/kg dry	2.088	BRL	59	35-123	1	20	
Nitrobenzene	1.04	0.41	mg/kg dry	2.088	BRL	50	34-122	2	20	
N-Nitroso-di-n-propylamine	1.33	0.41	mg/kg dry	2.088	BRL	64	36-120	5	20	
N-Nitrosodiphenylamine	1.78	0.41	mg/kg dry	2.088	BRL	85	38-127	7	20	
Pentachlorophenol	1.75	0.41	mg/kg dry	2.088	BRL	84	25-133	2	20	
Phenanthrene	1.55	0.41	mg/kg dry	2.088	BRL	74	50-121	7	20	
Phenol	1.36	0.41	mg/kg dry	2.088	BRL	65	34-121	3	20	
Pyrene	1.66	0.41	mg/kg dry	2.088	BRL	80	47-127	8	20	
Surrogate: 2,4,6-Tribromophenol	*3.00*		*mg/kg dry*	*4.176*		*72*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.43*		*mg/kg dry*	*2.088*		*69*	*44-115*			
Surrogate: 2-Fluorophenol	*2.76*		*mg/kg dry*	*4.176*		*66*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.11*		*mg/kg dry*	*2.088*		*53*	*37-122*			
Surrogate: Phenol-d5	*2.73*		*mg/kg dry*	*4.176*		*65*	*34-121*			
Surrogate: Terphenyl-d14	*1.83*		*mg/kg dry*	*2.088*		*88*	*54-127*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Polychlorinated Biphenyls (PCBs) by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7I0489 - 3546										
Blank (P7I0489-BLK1)				Prepared: 09/29/17		Analyzed: 10/02/17				
Aroclor 1016	BRL	0.050	mg/kg wet							
Aroclor 1221	BRL	0.10	mg/kg wet							
Aroclor 1232	BRL	0.10	mg/kg wet							
Aroclor 1242	BRL	0.050	mg/kg wet							
Aroclor 1248	BRL	0.050	mg/kg wet							
Aroclor 1254	BRL	0.050	mg/kg wet							
Aroclor 1260	BRL	0.050	mg/kg wet							
Surrogate: Tetrachloro-m-xylene	*0.0260*		*mg/kg wet*	*0.03333*		*78*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0286*		*mg/kg wet*	*0.03333*		*86*	*34-182*			
LCS (P7I0489-BS1)				Prepared: 09/29/17		Analyzed: 10/02/17				
Aroclor 1016	0.263	0.050	mg/kg wet	0.3333		79	64-151			
Aroclor 1260	0.264	0.050	mg/kg wet	0.3333		79	45-166			
Surrogate: Tetrachloro-m-xylene	*0.0268*		*mg/kg wet*	*0.03333*		*80*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0259*		*mg/kg wet*	*0.03333*		*78*	*34-182*			
LCS Dup (P7I0489-BSD1)				Prepared: 09/29/17		Analyzed: 10/02/17				
Aroclor 1016	0.258	0.050	mg/kg wet	0.3333		77	64-151	2	50	
Aroclor 1260	0.262	0.050	mg/kg wet	0.3333		79	45-166	0.6	50	
Surrogate: Tetrachloro-m-xylene	*0.0266*		*mg/kg wet*	*0.03333*		*80*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0253*		*mg/kg wet*	*0.03333*		*76*	*34-182*			
Matrix Spike (P7I0489-MS1)		**Source: 7090438-03**		Prepared: 09/29/17		Analyzed: 10/02/17				
Aroclor 1016	0.311	0.063	mg/kg dry	0.4180	BRL	74	14-192			
Aroclor 1254	BRL	0.063	mg/kg dry		BRL		50-150			
Aroclor 1260	0.298	0.063	mg/kg dry	0.4180	BRL	71	10-192			
Surrogate: Tetrachloro-m-xylene	*0.0280*		*mg/kg dry*	*0.04180*		*67*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0262*		*mg/kg dry*	*0.04180*		*63*	*34-182*			

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Hart & Hickman (Charlotte)
Attn: David Graham
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Polychlorinated Biphenyls (PCBs) by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7I0489 - 3546										
Matrix Spike Dup (P7I0489-MSD1)		**Source: 7090438-03**		Prepared: 09/29/17	Analyzed: 10/02/17					
Aroclor 1016	0.297	0.063	mg/kg dry	0.4180	BRL	71	14-192	4	50	
Aroclor 1260	0.273	0.063	mg/kg dry	0.4180	BRL	65	10-192	9	50	
Surrogate: Tetrachloro-m-xylene	*0.0298*		*mg/kg dry*	*0.04180*		*71*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0308*		*mg/kg dry*	*0.04180*		*74*	*34-182*			

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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0081 - 3050B										
Blank (P7J0081-BLK1)				Prepared: 10/05/17	Analyzed: 10/06/17					
Arsenic	BRL	0.25	mg/kg wet							
Barium	BRL	0.50	mg/kg wet							BH
Cadmium	BRL	0.25	mg/kg wet							
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
Selenium	BRL	0.50	mg/kg wet							
Silver	BRL	0.25	mg/kg wet							
LCS (P7J0081-BS1)				Prepared: 10/05/17	Analyzed: 10/06/17					
Arsenic	21.8	0.25	mg/kg wet	25.00		87	80-120			
Barium	25.1	0.50	mg/kg wet	25.00		100	80-120			
Cadmium	21.9	0.25	mg/kg wet	25.00		88	80-120			
Chromium	21.7	0.25	mg/kg wet	25.00		87	80-120			
Lead	22.7	0.25	mg/kg wet	25.00		91	80-120			
Selenium	20.1	0.50	mg/kg wet	25.00		80	80-120			
Silver	9.97	0.25	mg/kg wet	10.00		100	80-120			
Matrix Spike (P7J0081-MS1)		**Source: 7090438-01**		Prepared: 10/05/17	Analyzed: 10/06/17					
Arsenic	26.4	0.31	mg/kg dry	30.70	2.43	78	75-125			
Barium	152	0.61	mg/kg dry	30.70	115	119	75-125			
Cadmium	22.5	0.31	mg/kg dry	30.70	BRL	73	75-125			MI
Chromium	130	0.31	mg/kg dry	30.70	93.9	117	75-125			
Lead	28.2	0.31	mg/kg dry	30.70	4.57	77	75-125			
Selenium	22.5	0.61	mg/kg dry	30.69	BRL	73	75-125			MI
Silver	12.3	0.31	mg/kg dry	12.28	BRL	100	75-125			
Matrix Spike Dup (P7J0081-MSD1)		**Source: 7090438-01**		Prepared: 10/05/17	Analyzed: 10/06/17					
Arsenic	27.6	0.31	mg/kg dry	31.32	2.43	80	75-125	4	20	
Barium	146	0.63	mg/kg dry	31.31	115	100	75-125	4	20	
Cadmium	23.6	0.31	mg/kg dry	31.31	BRL	76	75-125	5	20	
Chromium	126	0.31	mg/kg dry	31.32	93.9	103	75-125	3	20	
Lead	29.6	0.31	mg/kg dry	31.32	4.57	80	75-125	5	20	
Selenium	22.4	0.63	mg/kg dry	31.31	BRL	72	75-125	0.1	20	MI
Silver	12.8	0.31	mg/kg dry	12.53	BRL	102	75-125	4	20	

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0081 - 3050B										
Post Spike (P7J0081-PS1)		**Source: 7090438-01**		Prepared: 10/05/17 Analyzed: 10/06/17						
Arsenic	0.878		mg/L	1.000	0.0797	80	80-120			
Barium	4.47		mg/L	1.000	3.77	71	80-120			MI
Cadmium	0.721		mg/L	1.000	-0.00111	72	80-120			MI
Chromium	3.62		mg/L	1.000	3.07	54	80-120			MI
Lead	0.893		mg/L	1.000	0.149	74	80-120			MI
Selenium	0.718		mg/L	0.9998	-0.0140	72	80-120			MI
Silver	0.388		mg/L	0.4000	-0.00896	97	80-120			
Batch P7J0127 - 7471B										
Blank (P7J0127-BLK1)				Prepared & Analyzed: 10/09/17						
Mercury	BRL	0.020	mg/kg wet							
LCS (P7J0127-BS1)				Prepared & Analyzed: 10/09/17						
Mercury	0.434	0.020	mg/kg wet	0.4167		104	80-120			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

TCLP Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7I0476 - 3010A										
Blank (P7I0476-BLK1)				Prepared & Analyzed: 09/29/17						
Arsenic	BRL	0.050	mg/L							
Barium	BRL	5.0	mg/L							
Cadmium	BRL	0.025	mg/L							
Chromium	BRL	0.25	mg/L							
Lead	BRL	0.050	mg/L							
Selenium	BRL	0.10	mg/L							
Silver	BRL	0.25	mg/L							
LCS (P7I0476-BS1)				Prepared & Analyzed: 09/29/17						
Arsenic	1.15	0.050	mg/L	1.250		92	80-120			
Barium	1.23	5.0	mg/L	1.250		98	80-120			
Cadmium	1.23	0.025	mg/L	1.250		98	80-120			
Chromium	1.12	0.25	mg/L	1.250		90	80-120			
Lead	1.11	0.050	mg/L	1.250		89	80-120			
Selenium	1.14	0.10	mg/L	1.250		91	80-120			
Silver	0.489	0.25	mg/L	0.5000		98	80-120			
Matrix Spike (P7I0476-MS1)		**Source: 7090438-01**		Prepared & Analyzed: 09/29/17						
Arsenic	1.15	0.050	mg/L	1.250	BRL	92	75-125			
Barium	2.19	5.0	mg/L	1.250	0.960	98	75-125			
Cadmium	1.21	0.025	mg/L	1.250	BRL	97	75-125			
Chromium	1.13	0.25	mg/L	1.250	BRL	90	75-125			
Lead	1.11	0.050	mg/L	1.250	BRL	88	75-125			
Selenium	1.16	0.10	mg/L	1.250	BRL	93	75-125			
Silver	0.489	0.25	mg/L	0.5000	BRL	98	75-125			
Matrix Spike Dup (P7I0476-MSD1)		**Source: 7090438-01**		Prepared & Analyzed: 09/29/17						
Arsenic	1.14	0.050	mg/L	1.250	BRL	91	75-125	0.8	20	
Barium	2.16	5.0	mg/L	1.250	0.960	96	75-125	1	20	
Cadmium	1.20	0.025	mg/L	1.250	BRL	96	75-125	0.9	20	
Chromium	1.11	0.25	mg/L	1.250	BRL	89	75-125	1	20	
Lead	1.10	0.050	mg/L	1.250	BRL	88	75-125	0.9	20	
Selenium	1.14	0.10	mg/L	1.250	BRL	91	75-125	2	20	
Silver	0.485	0.25	mg/L	0.5000	BRL	97	75-125	0.8	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

TCLP Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0151 - 7470A										
Blank (P7J0151-BLK1)				Prepared & Analyzed: 10/10/17						
Mercury	BRL	0.010	mg/L							
LCS (P7J0151-BS1)				Prepared & Analyzed: 10/10/17						
Mercury	0.0133	0.010	mg/L	0.009375		142	80-120			LH
Matrix Spike (P7J0151-MS1)		**Source: 7090438-01**		Prepared & Analyzed: 10/10/17						
Mercury	0.0111	0.010	mg/L	0.009375	0.0000502	118	80-120			
Matrix Spike Dup (P7J0151-MSD1)		**Source: 7090438-01**		Prepared & Analyzed: 10/10/17						
Mercury	0.0102	0.010	mg/L	0.009375	0.0000502	108	80-120	9	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0135 - Solids, Dry Weight										
Duplicate (P7J0135-DUP3)		**Source: 7090438-03**		Prepared & Analyzed: 10/06/17						
% Solids	80.0	0.100	% by Weight		79.8			0.3	20	

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090438
Time Submitted: 9/27/2017 1:31:00PM

TCLP Extraction by EPA 1311 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7I0461 - 1311										
Blank (P7I0461-BLK1)				Prepared: 09/28/17	Analyzed: 09/29/17					
TCLP Extraction	0.00		N/A							

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Sample Extraction Data

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7J0135	30 g	30 g	10/06/17 15:00
7090438-02	P7J0135	30 g	30 g	10/06/17 15:00
7090438-03	P7J0135	30 g	30 g	10/06/17 15:00
7090438-04	P7J0135	30 g	30 g	10/06/17 15:00

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7I0489	30.2 g	10 mL	09/29/17 12:33
7090438-02	P7I0489	30 g	10 mL	09/29/17 12:33
7090438-03	P7I0489	30.06 g	10 mL	09/29/17 12:33
7090438-04	P7I0489	30.06 g	10 mL	09/29/17 12:33

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7J0084	30.06 g	1 mL	10/05/17 11:00
7090438-02	P7J0084	30.04 g	1 mL	10/05/17 11:00
7090438-03	P7J0084	30.15 g	1 mL	10/05/17 11:00
7090438-04	P7J0084	30.11 g	1 mL	10/05/17 11:00

Prep Method: 1311

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7I0461	100 g	2000 mL	09/28/17 14:45
7090438-02	P7I0461	100 g	2000 mL	09/28/17 14:45
7090438-03	P7I0461	100 g	2000 mL	09/28/17 14:45
7090438-04	P7I0461	100 g	2000 mL	09/28/17 14:45

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-01	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-02	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-02	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-03	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-03	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-04	P7I0476	10 mL	50 mL	09/29/17 10:10
7090438-04	P7I0476	10 mL	50 mL	09/29/17 10:10

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7J0151	20 mL	30 mL	10/10/17 10:10
7090438-02	P7J0151	20 mL	30 mL	10/10/17 10:10
7090438-03	P7J0151	20 mL	30 mL	10/10/17 10:10
7090438-04	P7J0151	20 mL	30 mL	10/10/17 10:10

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7J0081	2.05 g	50 mL	10/05/17 8:25
7090438-02	P7J0081	2.04 g	50 mL	10/05/17 8:25
7090438-03	P7J0081	2.05 g	50 mL	10/05/17 8:25
7090438-04	P7J0081	2.04 g	50 mL	10/05/17 8:25

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Sample Extraction Data

Prep Method: 7471B

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7J0127	0.57 g	50 mL	10/09/17 8:10
7090438-02	P7J0127	0.63 g	50 mL	10/09/17 8:10
7090438-03	P7J0127	0.58 g	50 mL	10/09/17 8:10
7090438-04	P7J0127	0.64 g	50 mL	10/09/17 8:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
7090438-01	P7J0116	6.46 g	5 mL	10/06/17 10:17
7090438-02	P7J0116	6.32 g	5 mL	10/06/17 10:17
7090438-03	P7J0116	5.9 g	5 mL	10/06/17 10:17
7090438-04	P7J0116	6.14 g	5 mL	10/06/17 10:17

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ROW SIS

Project Name: Charlotte Gateway Station

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: NC DOT WBS #44475.1.2

Address:

Purchase Order No./Billing Reference ROW. SIS

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☒ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.556.0001 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte, NC

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-7 Observed: 4.0 °C / Corr: 3.5 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC___ DoD___ FL___ NC X
SC___ OTHER___ N/A___

Water Chlorinated: YES___ NO___

Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	PCBs-8082	VOCs-8260	SVOCs-8270	RCRA Metals 6010/7470	TCLP RCRA metals 6010/7470	TCLP VOCs	TCLP SVOCs *	REMARKS	PRISM LAB ID NO.
IDW-Soil (MW-1)	09/25/17	14:45	Soil	C, G, VOA	7	Varies	Varies	X	X	X	X	X	X	X	Hold TCLP VOCs	01
IDW-Soil (MW-2)	09/27/17	11:40	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	and TCLP SVOCs	02
IDW-Soil (MW-3)	09/26/17	12:45	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	pending analysis*	03
IDW-Soil (MW-4)	09/26/17	16:35	↓	↓	↓	↓	↓	X	X	X	X	X	X	X		04

Sampler's Signature Kenneth J. Windsand Sampled By (Print Name) Kenneth J. Windsand Affiliation Hart & Hickman, PC

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Kenneth J. Windsand / H&H		09/27/17	13:31
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		9-27-17	1331

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other

COC Group No. 7090438

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐	☐	☐	☐	☐	☐	☐	☐	☐

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

Case Narrative

10/27/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 10/19/2017
Prism Work Order: 7100356

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

10/27/2017

Prism Work Order: 7100356

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
IDW-Soil (MW-5)	7100356-01	Solid	10/18/17	10/19/17

Samples were received in good condition at 2.6 degrees C unless otherwise noted.

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Summary of Detections

10/27/2017

Prism Work Order: 7100356

Prism ID	Client ID	Parameter	Method	Result	Units
7100356-01	IDW-Soil (MW-5)	Mercury	*7471B	0.060	mg/kg dry
7100356-01	IDW-Soil (MW-5)	Arsenic	*6010D	2.2	mg/kg dry
7100356-01	IDW-Soil (MW-5)	Barium	*6010D	100	mg/kg dry
7100356-01	IDW-Soil (MW-5)	Chromium	*6010D	38	mg/kg dry
7100356-01	IDW-Soil (MW-5)	Lead	*6010D	12	mg/kg dry
7100356-01	IDW-Soil (MW-5)	Selenium	*6010D	1.4	mg/kg dry

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-5)
Prism Sample ID: 7100356-01
Prism Work Order: 7100356
Time Collected: 10/18/17 16:30
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**79.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/20/17 16:10**	**JLB**	**P7J0409**
Polychlorinated Biphenyls (PCBs) by GC/ECD									
Aroclor 1016	BRL	mg/kg dry	0.063	0.012	1	*8082A	10/25/17 2:38	JMC	P7J0442
Aroclor 1221	BRL	mg/kg dry	0.13	0.050	1	*8082A	10/25/17 2:38	JMC	P7J0442
Aroclor 1232	BRL	mg/kg dry	0.13	0.016	1	*8082A	10/25/17 2:38	JMC	P7J0442
Aroclor 1242	BRL	mg/kg dry	0.063	0.017	1	*8082A	10/25/17 2:38	JMC	P7J0442
Aroclor 1248	BRL	mg/kg dry	0.063	0.013	1	*8082A	10/25/17 2:38	JMC	P7J0442
Aroclor 1254	BRL	mg/kg dry	0.063	0.016	1	*8082A	10/25/17 2:38	JMC	P7J0442
Aroclor 1260	BRL	mg/kg dry	0.063	0.016	1	*8082A	10/25/17 2:38	JMC	P7J0442

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	*59 %*	*36-182*
Decachlorobiphenyl	*55 %*	*34-182*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.41	0.065	1	*8270D	10/20/17 20:11	JMV	P7J0372
1,2-Dichlorobenzene	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/20/17 20:11	JMV	P7J0372
1,3-Dichlorobenzene	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/20/17 20:11	JMV	P7J0372
1,4-Dichlorobenzene	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/20/17 20:11	JMV	P7J0372
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.080	1	*8270D	10/20/17 20:11	JMV	P7J0372
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.41	0.078	1	*8270D	10/20/17 20:11	JMV	P7J0372
2,4-Dichlorophenol	BRL	mg/kg dry	0.41	0.080	1	*8270D	10/20/17 20:11	JMV	P7J0372
2,4-Dimethylphenol	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/20/17 20:11	JMV	P7J0372
2,4-Dinitrophenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/20/17 20:11	JMV	P7J0372
2,4-Dinitrotoluene	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/20/17 20:11	JMV	P7J0372
2,6-Dinitrotoluene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/20/17 20:11	JMV	P7J0372
2-Chloronaphthalene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/20/17 20:11	JMV	P7J0372
2-Chlorophenol	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/20/17 20:11	JMV	P7J0372
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/20/17 20:11	JMV	P7J0372
2-Methylphenol	BRL	mg/kg dry	0.41	0.053	1	*8270D	10/20/17 20:11	JMV	P7J0372
2-Nitrophenol	BRL	mg/kg dry	0.41	0.075	1	*8270D	10/20/17 20:11	JMV	P7J0372
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.41	0.082	1	*8270D	10/20/17 20:11	JMV	P7J0372
3/4-Methylphenol	BRL	mg/kg dry	0.41	0.051	1	*8270D	10/20/17 20:11	JMV	P7J0372
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.41	0.062	1	*8270D	10/20/17 20:11	JMV	P7J0372
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.41	0.071	1	*8270D	10/20/17 20:11	JMV	P7J0372
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/20/17 20:11	JMV	P7J0372
4-Chloroaniline	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/20/17 20:11	JMV	P7J0372
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/20/17 20:11	JMV	P7J0372
4-Nitrophenol	BRL	mg/kg dry	0.41	0.064	1	*8270D	10/20/17 20:11	JMV	P7J0372
Acenaphthene	BRL	mg/kg dry	0.41	0.056	1	*8270D	10/20/17 20:11	JMV	P7J0372
Acenaphthylene	BRL	mg/kg dry	0.41	0.060	1	*8270D	10/20/17 20:11	JMV	P7J0372
Anthracene	BRL	mg/kg dry	0.41	0.067	1	*8270D	10/20/17 20:11	JMV	P7J0372
Azobenzene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/20/17 20:11	JMV	P7J0372

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-5)
Prism Sample ID: 7100356-01
Prism Work Order: 7100356
Time Collected: 10/18/17 16:30
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/20/17 20:11	JMV	P7J0372
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.045	1	*8270D	10/20/17 20:11	JMV	P7J0372
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.048	1	*8270D	10/20/17 20:11	JMV	P7J0372
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.045	1	*8270D	10/20/17 20:11	JMV	P7J0372
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/20/17 20:11	JMV	P7J0372
Benzoic Acid	BRL	mg/kg dry	0.41	0.035	1	*8270D	10/20/17 20:11	JMV	P7J0372
Benzyl alcohol	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/20/17 20:11	JMV	P7J0372
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.41	0.072	1	*8270D	10/20/17 20:11	JMV	P7J0372
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.41	0.058	1	*8270D	10/20/17 20:11	JMV	P7J0372
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.41	0.071	1	*8270D	10/20/17 20:11	JMV	P7J0372
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/20/17 20:11	JMV	P7J0372
Butyl benzyl phthalate	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/20/17 20:11	JMV	P7J0372
Chrysene	BRL	mg/kg dry	0.41	0.052	1	*8270D	10/20/17 20:11	JMV	P7J0372
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.050	1	*8270D	10/20/17 20:11	JMV	P7J0372
Dibenzofuran	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/20/17 20:11	JMV	P7J0372
Diethyl phthalate	BRL	mg/kg dry	0.41	0.057	1	*8270D	10/20/17 20:11	JMV	P7J0372
Dimethyl phthalate	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/20/17 20:11	JMV	P7J0372
Di-n-butyl phthalate	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/20/17 20:11	JMV	P7J0372
Di-n-octyl phthalate	BRL	mg/kg dry	0.41	0.051	1	*8270D	10/20/17 20:11	JMV	P7J0372
Fluoranthene	BRL	mg/kg dry	0.41	0.053	1	*8270D	10/20/17 20:11	JMV	P7J0372
Fluorene	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/20/17 20:11	JMV	P7J0372
Hexachlorobenzene	BRL	mg/kg dry	0.41	0.066	1	*8270D	10/20/17 20:11	JMV	P7J0372
Hexachlorobutadiene	BRL	mg/kg dry	0.41	0.074	1	*8270D	10/20/17 20:11	JMV	P7J0372
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.41	0.074	1	*8270D	10/20/17 20:11	JMV	P7J0372
Hexachloroethane	BRL	mg/kg dry	0.41	0.069	1	*8270D	10/20/17 20:11	JMV	P7J0372
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.048	1	*8270D	10/20/17 20:11	JMV	P7J0372
Isophorone	BRL	mg/kg dry	0.41	0.056	1	*8270D	10/20/17 20:11	JMV	P7J0372
Naphthalene	BRL	mg/kg dry	0.41	0.067	1	*8270D	10/20/17 20:11	JMV	P7J0372
Nitrobenzene	BRL	mg/kg dry	0.41	0.059	1	*8270D	10/20/17 20:11	JMV	P7J0372
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.41	0.065	1	*8270D	10/20/17 20:11	JMV	P7J0372
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.41	0.063	1	*8270D	10/20/17 20:11	JMV	P7J0372
Pentachlorophenol	BRL	mg/kg dry	0.41	0.049	1	*8270D	10/20/17 20:11	JMV	P7J0372
Phenanthrene	BRL	mg/kg dry	0.41	0.054	1	*8270D	10/20/17 20:11	JMV	P7J0372
Phenol	BRL	mg/kg dry	0.41	0.061	1	*8270D	10/20/17 20:11	JMV	P7J0372
Pyrene	BRL	mg/kg dry	0.41	0.055	1	*8270D	10/20/17 20:11	JMV	P7J0372

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*72 %*	*39-132*
2-Fluorobiphenyl	*71 %*	*44-115*
2-Fluorophenol	*66 %*	*35-115*
Nitrobenzene-d5	*50 %*	*37-122*
Phenol-d5	*64 %*	*34-121*
Terphenyl-d14	*75 %*	*54-127*

TCLP Extraction by EPA 1311

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-5)
Prism Sample ID: 7100356-01
Prism Work Order: 7100356
Time Collected: 10/18/17 16:30
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction	Complete	N/A			1	*1311	10/24/17 7:30	JAB	P7J0423
TCLP Metals									
Mercury	BRL	mg/L	0.010	0.000030	1	*7470A	10/24/17 15:52	JAB	P7J0450
Arsenic	BRL	mg/L	0.050	0.016	1	*6010D	10/24/17 17:15	JAB	P7J0451
Barium	BRL	mg/L	5.0	0.0040	1	*6010D	10/24/17 17:15	JAB	P7J0451
Cadmium	BRL	mg/L	0.025	0.00075	1	*6010D	10/24/17 17:15	JAB	P7J0451
Chromium	BRL	mg/L	0.25	0.0018	1	*6010D	10/24/17 17:15	JAB	P7J0451
Lead	BRL	mg/L	0.050	0.0040	1	*6010D	10/24/17 17:15	JAB	P7J0451
Selenium	BRL	mg/L	0.10	0.028	1	*6010D	10/24/17 17:15	JAB	P7J0451
Silver	BRL	mg/L	0.25	0.0020	1	*6010D	10/24/17 17:15	JAB	P7J0451
Total Metals									
Mercury	**0.060**	**mg/kg dry**	**0.024**	**0.0023**	**1**	***7471B**	**10/25/17 12:47**	**JAB**	**P7J0468**
Arsenic	**2.2**	**mg/kg dry**	**0.32**	**0.039**	**1**	***6010D**	**10/23/17 17:23**	**JAB**	**P7J0403**
Barium	**100**	**mg/kg dry**	**0.64**	**0.093**	**1**	***6010D**	**10/23/17 17:23**	**JAB**	**P7J0403**
Cadmium	BRL	mg/kg dry	0.32	0.0086	1	*6010D	10/23/17 17:23	JAB	P7J0403
Chromium	**38**	**mg/kg dry**	**0.32**	**0.053**	**1**	***6010D**	**10/23/17 17:23**	**JAB**	**P7J0403**
Lead	**12**	**mg/kg dry**	**0.32**	**0.059**	**1**	***6010D**	**10/23/17 17:23**	**JAB**	**P7J0403**
Selenium	**1.4**	**mg/kg dry**	**0.64**	**0.15**	**1**	***6010D**	**10/23/17 17:23**	**JAB**	**P7J0403**
Silver	BRL	mg/kg dry	0.32	0.0079	1	*6010D	10/23/17 17:23	JAB	P7J0403
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00044	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00036	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00047	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00015	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00029	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00068	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00040	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00041	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00021	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00033	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00040	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00035	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	10/20/17 14:10	ANG	P7J0376
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00021	1	*8260B	10/20/17 14:10	ANG	P7J0376
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	10/20/17 14:10	ANG	P7J0376
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	10/20/17 14:10	ANG	P7J0376
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/20/17 14:10	ANG	P7J0376

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-5)
Prism Sample ID: 7100356-01
Prism Work Order: 7100356
Time Collected: 10/18/17 16:30
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/20/17 14:10	ANG	P7J0376
Acetone	BRL	mg/kg dry	0.053	0.0013	1	*8260B	10/20/17 14:10	ANG	P7J0376
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	*8260B	10/20/17 14:10	ANG	P7J0376
Bromobenzene	BRL	mg/kg dry	0.0053	0.00044	1	*8260B	10/20/17 14:10	ANG	P7J0376
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00029	1	*8260B	10/20/17 14:10	ANG	P7J0376
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	10/20/17 14:10	ANG	P7J0376
Bromoform	BRL	mg/kg dry	0.0053	0.00060	1	*8260B	10/20/17 14:10	ANG	P7J0376
Bromomethane	BRL	mg/kg dry	0.011	0.00066	1	*8260B	10/20/17 14:10	ANG	P7J0376
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/20/17 14:10	ANG	P7J0376
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00028	1	*8260B	10/20/17 14:10	ANG	P7J0376
Chloroethane	BRL	mg/kg dry	0.011	0.00044	1	*8260B	10/20/17 14:10	ANG	P7J0376
Chloroform	BRL	mg/kg dry	0.0053	0.00038	1	*8260B	10/20/17 14:10	ANG	P7J0376
Chloromethane	BRL	mg/kg dry	0.0053	0.00036	1	*8260B	10/20/17 14:10	ANG	P7J0376
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	*8260B	10/20/17 14:10	ANG	P7J0376
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00018	1	*8260B	10/20/17 14:10	ANG	P7J0376
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	10/20/17 14:10	ANG	P7J0376
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00024	1	*8260B	10/20/17 14:10	ANG	P7J0376
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00020	1	*8260B	10/20/17 14:10	ANG	P7J0376
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	10/20/17 14:10	ANG	P7J0376
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00031	1	*8260B	10/20/17 14:10	ANG	P7J0376
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00049	1	*8260B	10/20/17 14:10	ANG	P7J0376
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.00048	1	*8260B	10/20/17 14:10	ANG	P7J0376
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00048	1	*8260B	10/20/17 14:10	ANG	P7J0376
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.00045	1	*8260B	10/20/17 14:10	ANG	P7J0376
Methylene Chloride	BRL	mg/kg dry	0.011	0.00030	1	*8260B	10/20/17 14:10	ANG	P7J0376
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00017	1	*8260B	10/20/17 14:10	ANG	P7J0376
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	*8260B	10/20/17 14:10	ANG	P7J0376
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00027	1	*8260B	10/20/17 14:10	ANG	P7J0376
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/20/17 14:10	ANG	P7J0376
o-Xylene	BRL	mg/kg dry	0.0053	0.00022	1	*8260B	10/20/17 14:10	ANG	P7J0376
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/20/17 14:10	ANG	P7J0376
Styrene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/20/17 14:10	ANG	P7J0376
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00018	1	*8260B	10/20/17 14:10	ANG	P7J0376
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00025	1	*8260B	10/20/17 14:10	ANG	P7J0376
Toluene	BRL	mg/kg dry	0.0053	0.00030	1	*8260B	10/20/17 14:10	ANG	P7J0376
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00032	1	*8260B	10/20/17 14:10	ANG	P7J0376
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00028	1	*8260B	10/20/17 14:10	ANG	P7J0376
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	10/20/17 14:10	ANG	P7J0376
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00034	1	*8260B	10/20/17 14:10	ANG	P7J0376
Vinyl acetate	BRL	mg/kg dry	0.027	0.00073	1	*8260B	10/20/17 14:10	ANG	P7J0376
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00026	1	*8260B	10/20/17 14:10	ANG	P7J0376
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	*8260B	10/20/17 14:10	ANG	P7J0376

Surrogate	Recovery	Control Limits

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: IDW-Soil (MW-5)
Prism Sample ID: 7100356-01
Prism Work Order: 7100356
Time Collected: 10/18/17 16:30
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			4-Bromofluorobenzene				*105 %*	*70-130*	
			Dibromofluoromethane				*104 %*	*84-123*	
			Toluene-d8				*115 %*	*76-129*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0376 - 5035										
Blank (P7J0376-BLK1)				Prepared & Analyzed: 10/20/17						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0376 - 5035										
Blank (P7J0376-BLK1)				Prepared & Analyzed: 10/20/17						
Methylene Chloride	BRL	0.010	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*84-123*			
Surrogate: Toluene-d8	*56.3*		*ug/L*	*50.00*		*113*	*76-129*			
LCS (P7J0376-BS1)				Prepared & Analyzed: 10/20/17						
1,1,1,2-Tetrachloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	72-115			
1,1,1-Trichloroethane	0.0381	0.0050	mg/kg wet	0.05000		76	67-131			
1,1,2,2-Tetrachloroethane	0.0570	0.0050	mg/kg wet	0.05000		114	56-126			
1,1,2-Trichloroethane	0.0481	0.0050	mg/kg wet	0.05000		96	70-133			
1,1-Dichloroethane	0.0408	0.0050	mg/kg wet	0.05000		82	74-127			
1,1-Dichloroethylene	0.0404	0.0050	mg/kg wet	0.05000		81	67-149			
1,1-Dichloropropylene	0.0376	0.0050	mg/kg wet	0.05000		75	71-130			
1,2,3-Trichlorobenzene	0.0544	0.0050	mg/kg wet	0.05000		109	68-130			
1,2,3-Trichloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	60-137			
1,2,4-Trichlorobenzene	0.0538	0.0050	mg/kg wet	0.05000		108	66-125			
1,2,4-Trimethylbenzene	0.0544	0.0050	mg/kg wet	0.05000		109	69-129			
1,2-Dibromoethane	0.0491	0.0050	mg/kg wet	0.05000		98	70-132			
1,2-Dichlorobenzene	0.0532	0.0050	mg/kg wet	0.05000		106	72-123			
1,2-Dichloroethane	0.0433	0.0050	mg/kg wet	0.05000		87	68-128			
1,2-Dichloropropane	0.0435	0.0050	mg/kg wet	0.05000		87	73-130			
1,3,5-Trimethylbenzene	0.0535	0.0050	mg/kg wet	0.05000		107	69-128			
1,3-Dichlorobenzene	0.0531	0.0050	mg/kg wet	0.05000		106	71-120			
1,3-Dichloropropane	0.0483	0.0050	mg/kg wet	0.05000		97	75-124			
1,4-Dichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	71-123			
2,2-Dichloropropane	0.0392	0.0050	mg/kg wet	0.05000		78	50-142			
2-Chlorotoluene	0.0544	0.0050	mg/kg wet	0.05000		109	67-124			
4-Chlorotoluene	0.0563	0.0050	mg/kg wet	0.05000		113	71-126			
4-Isopropyltoluene	0.0535	0.0050	mg/kg wet	0.05000		107	68-129			
Acetone	0.0880	0.050	mg/kg wet	0.1000		88	29-198			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0376 - 5035										
LCS (P7J0376-BS1)				Prepared & Analyzed: 10/20/17						
Benzene	0.0415	0.0030	mg/kg wet	0.05000		83	74-127			
Bromobenzene	0.0558	0.0050	mg/kg wet	0.05000		112	73-125			
Bromochloromethane	0.0406	0.0050	mg/kg wet	0.05000		81	72-134			
Bromodichloromethane	0.0403	0.0050	mg/kg wet	0.05000		81	75-122			
Bromoform	0.0480	0.0050	mg/kg wet	0.05000		96	66-135			
Bromomethane	0.0350	0.010	mg/kg wet	0.05000		70	20-180			
Carbon Tetrachloride	0.0378	0.0050	mg/kg wet	0.05000		76	64-143			
Chlorobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	74-118			
Chloroethane	0.0458	0.010	mg/kg wet	0.05000		92	33-149			
Chloroform	0.0418	0.0050	mg/kg wet	0.05000		84	73-127			
Chloromethane	0.0386	0.0050	mg/kg wet	0.05000		77	45-143			
cis-1,2-Dichloroethylene	0.0415	0.0050	mg/kg wet	0.05000		83	76-134			
cis-1,3-Dichloropropylene	0.0438	0.0050	mg/kg wet	0.05000		88	71-125			
Dibromochloromethane	0.0474	0.0050	mg/kg wet	0.05000		95	73-122			
Dichlorodifluoromethane	0.0274	0.0050	mg/kg wet	0.05000		55	26-146			
Ethylbenzene	0.0463	0.0050	mg/kg wet	0.05000		93	74-128			
Isopropyl Ether	0.0449	0.0050	mg/kg wet	0.05000		90	59-159			
Isopropylbenzene (Cumene)	0.0535	0.0050	mg/kg wet	0.05000		107	68-126			
m,p-Xylenes	0.0950	0.010	mg/kg wet	0.1000		95	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0522	0.050	mg/kg wet	0.05000		104	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0421	0.10	mg/kg wet	0.05000		84	63-149			
Methyl Isobutyl Ketone	0.0455	0.050	mg/kg wet	0.05000		91	57-162			
Methylene Chloride	0.0409	0.010	mg/kg wet	0.05000		82	74-129			
Methyl-tert-Butyl Ether	0.0446	0.010	mg/kg wet	0.05000		89	70-130			
Naphthalene	0.0560	0.010	mg/kg wet	0.05000		112	57-157			
n-Butylbenzene	0.0544	0.0050	mg/kg wet	0.05000		109	65-135			
n-Propylbenzene	0.0537	0.0050	mg/kg wet	0.05000		107	67-130			
o-Xylene	0.0470	0.0050	mg/kg wet	0.05000		94	74-126			
sec-Butylbenzene	0.0526	0.0050	mg/kg wet	0.05000		105	66-131			
Styrene	0.0504	0.0050	mg/kg wet	0.05000		101	77-121			
tert-Butylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	67-132			
Tetrachloroethylene	0.0360	0.0050	mg/kg wet	0.05000		72	68-130			
Toluene	0.0446	0.0050	mg/kg wet	0.05000		89	71-129			
trans-1,2-Dichloroethylene	0.0399	0.0050	mg/kg wet	0.05000		80	73-132			
trans-1,3-Dichloropropylene	0.0421	0.0050	mg/kg wet	0.05000		84	68-123			
Trichloroethylene	0.0381	0.0050	mg/kg wet	0.05000		76	75-133			
Trichlorofluoromethane	0.0472	0.0050	mg/kg wet	0.05000		94	44-146			
Vinyl acetate	0.0370	0.025	mg/kg wet	0.05000		74	85-161			L
Vinyl chloride	0.0382	0.0050	mg/kg wet	0.05000		76	48-147			
Xylenes, total	0.142	0.015	mg/kg wet	0.1500		95	74-126			
Surrogate: 4-Bromofluorobenzene	*51.1*		*ug/L*	*50.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*49.4*		*ug/L*	*50.00*		*99*	*84-123*			
Surrogate: Toluene-d8	*57.1*		*ug/L*	*50.00*		*114*	*76-129*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0376 - 5035										
LCS Dup (P7J0376-BSD1)				Prepared & Analyzed: 10/20/17						
1,1,1,2-Tetrachloroethane	0.0417	0.0050	mg/kg wet	0.05000		83	72-115	10	20	
1,1,1-Trichloroethane	0.0323	0.0050	mg/kg wet	0.05000		65	67-131	17	20	L2
1,1,2,2-Tetrachloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	56-126	11	20	
1,1,2-Trichloroethane	0.0431	0.0050	mg/kg wet	0.05000		86	70-133	11	20	
1,1-Dichloroethane	0.0359	0.0050	mg/kg wet	0.05000		72	74-127	13	20	L2
1,1-Dichloroethylene	0.0338	0.0050	mg/kg wet	0.05000		68	67-149	18	20	
1,1-Dichloropropylene	0.0312	0.0050	mg/kg wet	0.05000		62	71-130	18	20	L2
1,2,3-Trichlorobenzene	0.0475	0.0050	mg/kg wet	0.05000		95	68-130	13	20	
1,2,3-Trichloropropane	0.0485	0.0050	mg/kg wet	0.05000		97	60-137	11	20	
1,2,4-Trichlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	66-125	12	20	
1,2,4-Trimethylbenzene	0.0473	0.0050	mg/kg wet	0.05000		95	69-129	14	20	
1,2-Dibromoethane	0.0442	0.0050	mg/kg wet	0.05000		88	70-132	10	20	
1,2-Dichlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	72-123	11	20	
1,2-Dichloroethane	0.0392	0.0050	mg/kg wet	0.05000		78	68-128	10	20	
1,2-Dichloropropane	0.0390	0.0050	mg/kg wet	0.05000		78	73-130	11	20	
1,3,5-Trimethylbenzene	0.0460	0.0050	mg/kg wet	0.05000		92	69-128	15	20	
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	71-120	13	20	
1,3-Dichloropropane	0.0431	0.0050	mg/kg wet	0.05000		86	75-124	11	20	
1,4-Dichlorobenzene	0.0470	0.0050	mg/kg wet	0.05000		94	71-123	12	20	
2,2-Dichloropropane	0.0330	0.0050	mg/kg wet	0.05000		66	50-142	17	20	
2-Chlorotoluene	0.0479	0.0050	mg/kg wet	0.05000		96	67-124	13	20	
4-Chlorotoluene	0.0491	0.0050	mg/kg wet	0.05000		98	71-126	14	20	
4-Isopropyltoluene	0.0457	0.0050	mg/kg wet	0.05000		91	68-129	16	20	
Acetone	0.0782	0.050	mg/kg wet	0.1000		78	29-198	12	20	
Benzene	0.0363	0.0030	mg/kg wet	0.05000		73	74-127	13	20	L2
Bromobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	73-125	12	20	
Bromochloromethane	0.0365	0.0050	mg/kg wet	0.05000		73	72-134	11	20	
Bromodichloromethane	0.0364	0.0050	mg/kg wet	0.05000		73	75-122	10	20	L2
Bromoform	0.0429	0.0050	mg/kg wet	0.05000		86	66-135	11	20	
Bromomethane	0.0292	0.010	mg/kg wet	0.05000		58	20-180	18	20	
Carbon Tetrachloride	0.0318	0.0050	mg/kg wet	0.05000		64	64-143	17	20	
Chlorobenzene	0.0404	0.0050	mg/kg wet	0.05000		81	74-118	12	20	
Chloroethane	0.0405	0.010	mg/kg wet	0.05000		81	33-149	12	20	
Chloroform	0.0370	0.0050	mg/kg wet	0.05000		74	73-127	12	20	
Chloromethane	0.0314	0.0050	mg/kg wet	0.05000		63	45-143	21	20	L2
cis-1,2-Dichloroethylene	0.0370	0.0050	mg/kg wet	0.05000		74	76-134	11	20	L2
cis-1,3-Dichloropropylene	0.0393	0.0050	mg/kg wet	0.05000		79	71-125	11	20	
Dibromochloromethane	0.0428	0.0050	mg/kg wet	0.05000		86	73-122	10	20	
Dichlorodifluoromethane	0.0222	0.0050	mg/kg wet	0.05000		44	26-146	21	20	L2
Ethylbenzene	0.0400	0.0050	mg/kg wet	0.05000		80	74-128	15	20	
Isopropyl Ether	0.0404	0.0050	mg/kg wet	0.05000		81	59-159	11	20	
Isopropylbenzene (Cumene)	0.0457	0.0050	mg/kg wet	0.05000		91	68-126	16	20	
m,p-Xylenes	0.0824	0.010	mg/kg wet	0.1000		82	75-124	14	20	
Methyl Butyl Ketone (2-Hexanone)	0.0473	0.050	mg/kg wet	0.05000		95	61-157	10	20	
Methyl Ethyl Ketone (2-Butanone)	0.0379	0.10	mg/kg wet	0.05000		76	63-149	10	20	
Methyl Isobutyl Ketone	0.0416	0.050	mg/kg wet	0.05000		83	57-162	9	20	

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0376 - 5035										
LCS Dup (P7J0376-BSD1)				Prepared & Analyzed: 10/20/17						
Methylene Chloride	0.0365	0.010	mg/kg wet	0.05000		73	74-129	11	20	L2
Methyl-tert-Butyl Ether	0.0425	0.010	mg/kg wet	0.05000		85	70-130	5	20	
Naphthalene	0.0496	0.010	mg/kg wet	0.05000		99	57-157	12	20	
n-Butylbenzene	0.0460	0.0050	mg/kg wet	0.05000		92	65-135	17	20	
n-Propylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	67-130	16	20	
o-Xylene	0.0415	0.0050	mg/kg wet	0.05000		83	74-126	13	20	
sec-Butylbenzene	0.0445	0.0050	mg/kg wet	0.05000		89	66-131	17	20	
Styrene	0.0447	0.0050	mg/kg wet	0.05000		89	77-121	12	20	
tert-Butylbenzene	0.0442	0.0050	mg/kg wet	0.05000		88	67-132	16	20	
Tetrachloroethylene	0.0306	0.0050	mg/kg wet	0.05000		61	68-130	16	20	L2
Toluene	0.0385	0.0050	mg/kg wet	0.05000		77	71-129	14	20	
trans-1,2-Dichloroethylene	0.0342	0.0050	mg/kg wet	0.05000		68	73-132	15	20	L2
trans-1,3-Dichloropropylene	0.0382	0.0050	mg/kg wet	0.05000		76	68-123	10	20	
Trichloroethylene	0.0332	0.0050	mg/kg wet	0.05000		66	75-133	14	20	L2
Trichlorofluoromethane	0.0390	0.0050	mg/kg wet	0.05000		78	44-146	19	20	
Vinyl acetate	0.0337	0.025	mg/kg wet	0.05000		67	85-161	9	20	L
Vinyl chloride	0.0318	0.0050	mg/kg wet	0.05000		64	48-147	18	20	
Xylenes, total	0.124	0.015	mg/kg wet	0.1500		83	74-126	14	20	
Surrogate: 4-Bromofluorobenzene	*51.2*		*ug/L*	*50.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.00*		*99*	*84-123*			
Surrogate: Toluene-d8	*57.1*		*ug/L*	*50.00*		*114*	*76-129*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0372 - 3546										
Blank (P7J0372-BLK1)				Prepared & Analyzed: 10/20/17						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0372 - 3546										
Blank (P7J0372-BLK1)				Prepared & Analyzed: 10/20/17						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.56*		*mg/kg wet*	*3.333*		*77*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.38*		*mg/kg wet*	*1.667*		*83*	*44-115*			
Surrogate: 2-Fluorophenol	*2.62*		*mg/kg wet*	*3.333*		*79*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.16*		*mg/kg wet*	*1.667*		*69*	*37-122*			
Surrogate: Phenol-d5	*2.53*		*mg/kg wet*	*3.333*		*76*	*34-121*			
Surrogate: Terphenyl-d14	*1.37*		*mg/kg wet*	*1.667*		*82*	*54-127*			
LCS (P7J0372-BS1)				Prepared & Analyzed: 10/20/17						
1,2,4-Trichlorobenzene	1.09	0.33	mg/kg wet	1.667		65	34-118			
1,2-Dichlorobenzene	1.08	0.33	mg/kg wet	1.667		65	33-117			
1,3-Dichlorobenzene	1.05	0.33	mg/kg wet	1.667		63	30-115			
1,4-Dichlorobenzene	1.04	0.33	mg/kg wet	1.667		62	31-115			
1-Methylnaphthalene	1.19	0.33	mg/kg wet	1.667		72	40-119			
2,4,6-Trichlorophenol	1.28	0.33	mg/kg wet	1.667		77	39-126			
2,4-Dichlorophenol	1.16	0.33	mg/kg wet	1.667		70	40-122			
2,4-Dimethylphenol	1.36	0.33	mg/kg wet	1.667		82	30-127			
2,4-Dinitrophenol	1.21	0.33	mg/kg wet	1.667		72	27-129			
2,4-Dinitrotoluene	1.29	0.33	mg/kg wet	1.667		78	48-126			
2,6-Dinitrotoluene	1.38	0.33	mg/kg wet	1.667		83	46-124			
2-Chloronaphthalene	1.25	0.33	mg/kg wet	1.667		75	41-114			
2-Chlorophenol	1.24	0.33	mg/kg wet	1.667		75	34-121			
2-Methylnaphthalene	1.16	0.33	mg/kg wet	1.667		69	38-122			
2-Methylphenol	1.28	0.33	mg/kg wet	1.667		77	32-122			
2-Nitrophenol	1.13	0.33	mg/kg wet	1.667		68	36-123			
3,3'-Dichlorobenzidine	1.29	0.33	mg/kg wet	1.667		77	22-121			
3/4-Methylphenol	1.10	0.33	mg/kg wet	1.667		66	34-119			
4,6-Dinitro-2-methylphenol	1.24	0.33	mg/kg wet	1.667		74	29-132			
4-Bromophenyl phenyl ether	1.26	0.33	mg/kg wet	1.667		75	46-124			
4-Chloro-3-methylphenol	1.18	0.33	mg/kg wet	1.667		71	45-122			
4-Chloroaniline	1.13	0.33	mg/kg wet	1.667		68	17-106			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0372 - 3546										
LCS (P7J0372-BS1)				Prepared & Analyzed: 10/20/17						
4-Chlorophenyl phenyl ether	1.26	0.33	mg/kg wet	1.667		76	45-121			
4-Nitrophenol	1.24	0.33	mg/kg wet	1.667		74	30-132			
Acenaphthene	1.29	0.33	mg/kg wet	1.667		77	40-123			
Acenaphthylene	1.33	0.33	mg/kg wet	1.667		80	32-132			
Anthracene	1.40	0.33	mg/kg wet	1.667		84	47-123			
Azobenzene	1.33	0.33	mg/kg wet	1.667		80	39-125			
Benzo(a)anthracene	1.36	0.33	mg/kg wet	1.667		82	49-126			
Benzo(a)pyrene	1.36	0.33	mg/kg wet	1.667		81	45-129			
Benzo(b)fluoranthene	1.33	0.33	mg/kg wet	1.667		80	45-132			
Benzo(g,h,i)perylene	1.29	0.33	mg/kg wet	1.667		78	43-134			
Benzo(k)fluoranthene	1.41	0.33	mg/kg wet	1.667		84	47-132			
Benzoic Acid	1.00	0.33	mg/kg wet	1.667		60	10-83			
Benzyl alcohol	1.06	0.33	mg/kg wet	1.667		64	29-122			
bis(2-Chloroethoxy)methane	1.15	0.33	mg/kg wet	1.667		69	36-121			
Bis(2-Chloroethyl)ether	0.964	0.33	mg/kg wet	1.667		58	31-120			
Bis(2-chloroisopropyl)ether	1.05	0.33	mg/kg wet	1.667		63	33-131			
Bis(2-Ethylhexyl)phthalate	1.38	0.33	mg/kg wet	1.667		83	51-133			
Butyl benzyl phthalate	1.34	0.33	mg/kg wet	1.667		80	48-132			
Chrysene	1.35	0.33	mg/kg wet	1.667		81	50-124			
Dibenzo(a,h)anthracene	0.865	0.33	mg/kg wet	1.667		52	45-134			
Dibenzofuran	1.24	0.33	mg/kg wet	1.667		75	44-120			
Diethyl phthalate	1.24	0.33	mg/kg wet	1.667		74	50-124			
Dimethyl phthalate	1.25	0.33	mg/kg wet	1.667		75	48-124			
Di-n-butyl phthalate	1.31	0.33	mg/kg wet	1.667		78	51-128			
Di-n-octyl phthalate	1.39	0.33	mg/kg wet	1.667		83	45-140			
Fluoranthene	1.33	0.33	mg/kg wet	1.667		80	50-127			
Fluorene	1.30	0.33	mg/kg wet	1.667		78	43-125			
Hexachlorobenzene	1.26	0.33	mg/kg wet	1.667		75	45-122			
Hexachlorobutadiene	1.11	0.33	mg/kg wet	1.667		66	32-123			
Hexachlorocyclopentadiene	1.08	0.33	mg/kg wet	1.667		65	32-117			
Hexachloroethane	1.01	0.33	mg/kg wet	1.667		61	28-117			
Indeno(1,2,3-cd)pyrene	1.47	0.33	mg/kg wet	1.667		88	45-133			
Isophorone	1.11	0.33	mg/kg wet	1.667		66	30-122			
Naphthalene	1.14	0.33	mg/kg wet	1.667		68	35-123			
Nitrobenzene	0.993	0.33	mg/kg wet	1.667		60	34-122			
N-Nitroso-di-n-propylamine	1.17	0.33	mg/kg wet	1.667		70	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.667		97	38-127			
Pentachlorophenol	1.35	0.33	mg/kg wet	1.667		81	25-133			
Phenanthrene	1.38	0.33	mg/kg wet	1.667		83	50-121			
Phenol	1.21	0.33	mg/kg wet	1.667		73	34-121			
Pyrene	1.38	0.33	mg/kg wet	1.667		83	47-127			
Surrogate: 2,4,6-Tribromophenol	*2.70*		*mg/kg wet*	*3.333*		*81*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.33*		*mg/kg wet*	*1.667*		*80*	*44-115*			
Surrogate: 2-Fluorophenol	*2.52*		*mg/kg wet*	*3.333*		*76*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.12*		*mg/kg wet*	*1.667*		*67*	*37-122*			
Surrogate: Phenol-d5	*2.45*		*mg/kg wet*	*3.333*		*73*	*34-121*			

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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0372 - 3546										
LCS (P7J0372-BS1)				Prepared & Analyzed: 10/20/17						
Surrogate: Terphenyl-d14	*1.31*		*mg/kg wet*	*1.667*		*78*	*54-127*			
LCS Dup (P7J0372-BSD1)				Prepared & Analyzed: 10/20/17						
1,2,4-Trichlorobenzene	1.01	0.33	mg/kg wet	1.667		60	34-118	8	20	
1,2-Dichlorobenzene	0.985	0.33	mg/kg wet	1.667		59	33-117	10	20	
1,3-Dichlorobenzene	0.968	0.33	mg/kg wet	1.667		58	30-115	8	20	
1,4-Dichlorobenzene	0.952	0.33	mg/kg wet	1.667		57	31-115	9	20	
1-Methylnaphthalene	1.11	0.33	mg/kg wet	1.667		67	40-119	7	20	
2,4,6-Trichlorophenol	1.18	0.33	mg/kg wet	1.667		71	39-126	8	20	
2,4-Dichlorophenol	1.11	0.33	mg/kg wet	1.667		67	40-122	4	20	
2,4-Dimethylphenol	1.25	0.33	mg/kg wet	1.667		75	30-127	8	20	
2,4-Dinitrophenol	1.13	0.33	mg/kg wet	1.667		68	27-129	7	20	
2,4-Dinitrotoluene	1.22	0.33	mg/kg wet	1.667		73	48-126	6	20	
2,6-Dinitrotoluene	1.30	0.33	mg/kg wet	1.667		78	46-124	6	20	
2-Chloronaphthalene	1.15	0.33	mg/kg wet	1.667		69	41-114	9	20	
2-Chlorophenol	1.13	0.33	mg/kg wet	1.667		68	34-121	9	20	
2-Methylnaphthalene	1.06	0.33	mg/kg wet	1.667		63	38-122	9	20	
2-Methylphenol	1.19	0.33	mg/kg wet	1.667		71	32-122	7	20	
2-Nitrophenol	1.05	0.33	mg/kg wet	1.667		63	36-123	8	20	
3,3'-Dichlorobenzidine	1.29	0.33	mg/kg wet	1.667		77	22-121	0.03	20	
3/4-Methylphenol	1.03	0.33	mg/kg wet	1.667		62	34-119	6	20	
4,6-Dinitro-2-methylphenol	1.21	0.33	mg/kg wet	1.667		72	29-132	3	20	
4-Bromophenyl phenyl ether	1.17	0.33	mg/kg wet	1.667		70	46-124	7	20	
4-Chloro-3-methylphenol	1.11	0.33	mg/kg wet	1.667		67	45-122	6	20	
4-Chloroaniline	1.08	0.33	mg/kg wet	1.667		65	17-106	5	20	
4-Chlorophenyl phenyl ether	1.17	0.33	mg/kg wet	1.667		70	45-121	8	20	
4-Nitrophenol	1.18	0.33	mg/kg wet	1.667		71	30-132	5	20	
Acenaphthene	1.18	0.33	mg/kg wet	1.667		71	40-123	9	20	
Acenaphthylene	1.24	0.33	mg/kg wet	1.667		74	32-132	7	20	
Anthracene	1.31	0.33	mg/kg wet	1.667		79	47-123	6	20	
Azobenzene	1.24	0.33	mg/kg wet	1.667		74	39-125	8	20	
Benzo(a)anthracene	1.31	0.33	mg/kg wet	1.667		79	49-126	4	20	
Benzo(a)pyrene	1.27	0.33	mg/kg wet	1.667		76	45-129	7	20	
Benzo(b)fluoranthene	1.28	0.33	mg/kg wet	1.667		77	45-132	4	20	
Benzo(g,h,i)perylene	1.21	0.33	mg/kg wet	1.667		73	43-134	6	20	
Benzo(k)fluoranthene	1.29	0.33	mg/kg wet	1.667		78	47-132	8	20	
Benzoic Acid	0.977	0.33	mg/kg wet	1.667		59	10-83	2	20	
Benzyl alcohol	0.991	0.33	mg/kg wet	1.667		59	29-122	7	20	
bis(2-Chloroethoxy)methane	1.08	0.33	mg/kg wet	1.667		65	36-121	7	20	
Bis(2-Chloroethyl)ether	0.899	0.33	mg/kg wet	1.667		54	31-120	7	20	
Bis(2-chloroisopropyl)ether	0.953	0.33	mg/kg wet	1.667		57	33-131	10	20	
Bis(2-Ethylhexyl)phthalate	1.31	0.33	mg/kg wet	1.667		79	51-133	5	20	
Butyl benzyl phthalate	1.30	0.33	mg/kg wet	1.667		78	48-132	3	20	
Chrysene	1.29	0.33	mg/kg wet	1.667		78	50-124	4	20	
Dibenzo(a,h)anthracene	0.765	0.33	mg/kg wet	1.667		46	45-134	12	20	
Dibenzofuran	1.13	0.33	mg/kg wet	1.667		68	44-120	9	20	
Diethyl phthalate	1.14	0.33	mg/kg wet	1.667		69	50-124	8	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0372 - 3546										
LCS Dup (P7J0372-BSD1)				Prepared & Analyzed: 10/20/17						
Dimethyl phthalate	1.15	0.33	mg/kg wet	1.667		69	48-124	9	20	
Di-n-butyl phthalate	1.25	0.33	mg/kg wet	1.667		75	51-128	4	20	
Di-n-octyl phthalate	1.32	0.33	mg/kg wet	1.667		79	45-140	5	20	
Fluoranthene	1.27	0.33	mg/kg wet	1.667		76	50-127	5	20	
Fluorene	1.18	0.33	mg/kg wet	1.667		71	43-125	9	20	
Hexachlorobenzene	1.17	0.33	mg/kg wet	1.667		70	45-122	7	20	
Hexachlorobutadiene	1.02	0.33	mg/kg wet	1.667		61	32-123	8	20	
Hexachlorocyclopentadiene	0.957	0.33	mg/kg wet	1.667		57	32-117	12	20	
Hexachloroethane	0.926	0.33	mg/kg wet	1.667		56	28-117	9	20	
Indeno(1,2,3-cd)pyrene	1.38	0.33	mg/kg wet	1.667		83	45-133	6	20	
Isophorone	1.02	0.33	mg/kg wet	1.667		61	30-122	8	20	
Naphthalene	1.06	0.33	mg/kg wet	1.667		64	35-123	7	20	
Nitrobenzene	0.937	0.33	mg/kg wet	1.667		56	34-122	6	20	
N-Nitroso-di-n-propylamine	1.11	0.33	mg/kg wet	1.667		67	36-120	5	20	
N-Nitrosodiphenylamine	1.52	0.33	mg/kg wet	1.667		91	38-127	6	20	
Pentachlorophenol	1.29	0.33	mg/kg wet	1.667		78	25-133	4	20	
Phenanthrene	1.29	0.33	mg/kg wet	1.667		77	50-121	7	20	
Phenol	1.13	0.33	mg/kg wet	1.667		68	34-121	7	20	
Pyrene	1.32	0.33	mg/kg wet	1.667		79	47-127	4	20	
Surrogate: 2,4,6-Tribromophenol	*2.46*		*mg/kg wet*	*3.333*		*74*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.21*		*mg/kg wet*	*1.667*		*72*	*44-115*			
Surrogate: 2-Fluorophenol	*2.32*		*mg/kg wet*	*3.333*		*70*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.02*		*mg/kg wet*	*1.667*		*61*	*37-122*			
Surrogate: Phenol-d5	*2.23*		*mg/kg wet*	*3.333*		*67*	*34-121*			
Surrogate: Terphenyl-d14	*1.22*		*mg/kg wet*	*1.667*		*73*	*54-127*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Polychlorinated Biphenyls (PCBs) by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0442 - 3546										
Blank (P7J0442-BLK1)				Prepared & Analyzed: 10/24/17						
Aroclor 1016	BRL	0.050	mg/kg wet							
Aroclor 1221	BRL	0.10	mg/kg wet							
Aroclor 1232	BRL	0.10	mg/kg wet							
Aroclor 1242	BRL	0.050	mg/kg wet							
Aroclor 1248	BRL	0.050	mg/kg wet							
Aroclor 1254	BRL	0.050	mg/kg wet							
Aroclor 1260	BRL	0.050	mg/kg wet							
Surrogate: Tetrachloro-m-xylene	*0.0282*		*mg/kg wet*	*0.03333*		*85*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0277*		*mg/kg wet*	*0.03333*		*83*	*34-182*			
LCS (P7J0442-BS1)				Prepared: 10/24/17	Analyzed: 10/25/17					
Aroclor 1016	0.307	0.050	mg/kg wet	0.3333		92	64-151			
Aroclor 1260	0.257	0.050	mg/kg wet	0.3333		77	45-166			
Surrogate: Tetrachloro-m-xylene	*0.0314*		*mg/kg wet*	*0.03333*		*94*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0289*		*mg/kg wet*	*0.03333*		*87*	*34-182*			
LCS Dup (P7J0442-BSD1)				Prepared: 10/24/17	Analyzed: 10/25/17					
Aroclor 1016	0.301	0.050	mg/kg wet	0.3333		90	64-151	2	50	
Aroclor 1260	0.260	0.050	mg/kg wet	0.3333		78	45-166	1	50	
Surrogate: Tetrachloro-m-xylene	*0.0295*		*mg/kg wet*	*0.03333*		*89*	*36-182*			
Surrogate: Decachlorobiphenyl	*0.0291*		*mg/kg wet*	*0.03333*		*87*	*34-182*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0403 - 3050B										
Blank (P7J0403-BLK1)				Prepared & Analyzed: 10/23/17						
Arsenic	BRL	0.25	mg/kg wet							
Barium	BRL	0.50	mg/kg wet							
Cadmium	BRL	0.25	mg/kg wet							
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
Selenium	BRL	0.50	mg/kg wet							
Silver	BRL	0.25	mg/kg wet							
LCS (P7J0403-BS1)				Prepared & Analyzed: 10/23/17						
Arsenic	25.3	0.25	mg/kg wet	25.00		101	80-120			
Barium	26.4	0.50	mg/kg wet	25.00		106	80-120			
Cadmium	24.5	0.25	mg/kg wet	25.00		98	80-120			
Chromium	26.2	0.25	mg/kg wet	25.00		105	80-120			
Lead	24.9	0.25	mg/kg wet	25.00		100	80-120			
Selenium	24.2	0.50	mg/kg wet	25.00		97	80-120			
Silver	9.83	0.25	mg/kg wet	10.00		98	80-120			
Matrix Spike (P7J0403-MS1)		**Source: 7100356-01**		Prepared & Analyzed: 10/23/17						
Arsenic	24.7	0.31	mg/kg dry	31.46	2.24	71	75-125			MI
Barium	124	0.63	mg/kg dry	31.45	103	69	75-125			MI
Cadmium	22.6	0.31	mg/kg dry	31.45	0.0605	72	75-125			MI
Chromium	66.0	0.31	mg/kg dry	31.46	37.5	91	75-125			
Lead	34.8	0.31	mg/kg dry	31.46	11.8	73	75-125			MI
Selenium	24.0	0.63	mg/kg dry	31.45	1.44	72	75-125			MI
Silver	9.50	0.31	mg/kg dry	12.58	BRL	76	75-125			
Matrix Spike Dup (P7J0403-MSD1)		**Source: 7100356-01**		Prepared & Analyzed: 10/23/17						
Arsenic	26.1	0.31	mg/kg dry	31.30	2.24	76	75-125	5	20	
Barium	136	0.63	mg/kg dry	31.30	103	107	75-125	9	20	
Cadmium	23.5	0.31	mg/kg dry	31.30	0.0605	75	75-125	4	20	
Chromium	64.1	0.31	mg/kg dry	31.30	37.5	85	75-125	3	20	
Lead	36.7	0.31	mg/kg dry	31.30	11.8	79	75-125	5	20	
Selenium	25.2	0.63	mg/kg dry	31.29	1.44	76	75-125	5	20	
Silver	9.99	0.31	mg/kg dry	12.52	BRL	80	75-125	5	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0403 - 3050B										
Post Spike (P7J0403-PS1)		**Source: 7100356-01**		Prepared & Analyzed: 10/23/17						
Arsenic	0.874		mg/L	1.000	0.0712	80	80-120			
Barium	3.89		mg/L	1.000	3.27	63	80-120			MI
Cadmium	0.720		mg/L	1.000	0.00192	72	80-120			MI
Chromium	1.91		mg/L	1.000	1.19	72	80-120			MI
Lead	1.07		mg/L	1.000	0.375	69	80-120			MI
Selenium	0.817		mg/L	0.9998	0.0458	77	80-120			MI
Silver	0.292		mg/L	0.4000	-0.0301	73	80-120			MI
Batch P7J0468 - 7471B										
Blank (P7J0468-BLK1)				Prepared & Analyzed: 10/25/17						
Mercury	BRL	0.020	mg/kg wet							
LCS (P7J0468-BS1)				Prepared & Analyzed: 10/25/17						
Mercury	0.444	0.020	mg/kg wet	0.4167		107	80-120			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

TCLP Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0450 - 7470A										
Blank (P7J0450-BLK1)				Prepared & Analyzed: 10/24/17						
Mercury	BRL	0.010	mg/L							
LCS (P7J0450-BS1)				Prepared & Analyzed: 10/24/17						
Mercury	0.00919	0.010	mg/L	0.009375		98	80-120			
Batch P7J0451 - 3010A										
Blank (P7J0451-BLK1)				Prepared & Analyzed: 10/24/17						
Arsenic	BRL	0.050	mg/L							
Barium	BRL	5.0	mg/L							
Cadmium	BRL	0.025	mg/L							
Chromium	BRL	0.25	mg/L							
Lead	BRL	0.050	mg/L							
Selenium	BRL	0.10	mg/L							
Silver	BRL	0.25	mg/L							
LCS (P7J0451-BS1)				Prepared & Analyzed: 10/24/17						
Arsenic	1.33	0.050	mg/L	1.250		107	80-120			
Barium	1.31	5.0	mg/L	1.250		104	80-120			
Cadmium	1.31	0.025	mg/L	1.250		105	80-120			
Chromium	1.29	0.25	mg/L	1.250		103	80-120			
Lead	1.28	0.050	mg/L	1.250		103	80-120			
Selenium	1.35	0.10	mg/L	1.250		108	80-120			
Silver	0.485	0.25	mg/L	0.5000		97	80-120			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100356
Time Submitted: 10/19/2017 8:20:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0409 - Solids, Dry Weight										
Duplicate (P7J0409-DUP3)		**Source: 7100356-01**		Prepared & Analyzed: 10/20/17						
% Solids	79.4	0.100	% by Weight		79.5			0.1	20	

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Sample Extraction Data

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0409	30 g	30 g	10/20/17 16:10

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0442	30.02 g	10 mL	10/24/17 11:00

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0372	30.11 g	1 mL	10/20/17 12:00

Prep Method: 1311

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0423	100 g	2000 mL	10/23/17 14:00

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0451	10 mL	50 mL	10/24/17 11:45

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0450	20 mL	30 mL	10/24/17 9:30

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0403	1.97 g	50 mL	10/23/17 8:55

Prep Method: 7471B

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0468	0.63 g	50 mL	10/25/17 9:05

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
7100356-01	P7J0376	5.92 g	5 mL	10/20/17 8:35

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ROW-515

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.586.0007 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte NC

Project Name: Charlotte Gateway Station
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS # 44475.1.2
Address:

Purchase Order No./Billing Reference ROW-515
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRF-7 Observed: 3.1 °C / Corr: 2.6 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ DoD___ FL___ NC X SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: PCBs-8082	VOCs-8260	SVOCs-8270	Metals 6010/7470	TCLP RCRA Metals 6010/7470	TCLP VOCs X	TCLP SVOCs X*	REMARKS	PRISM LAB ID NO.
IDW-Soil (MW-5)	10/18/17	1630	Soil	C, G, VOA	7	Varies	Varies	X	X	X	X	X	X	X	* Hold TCLP VOCs and TCLP SVOCs pending analysis*	01

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Kenneth J. Windsand Affiliation H&H

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature] / H&H			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 10-19-17	0820

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 7100356

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐	☐	☐	☐	☐	☐	☐	☐	☐

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

Appendix E

Former Textile Chemical Facility Information

Well Number

Organic Constituents[1]	MW-8	MW-15	MW-16	MW-17	MW-18	MW-19	NCDEM MCL[2]
1,1-Dichloroethene	14	670	10	50	ND	ND	7
1,1-Dichloroethane	12	1300	6	23	ND	ND	---
1,1,1-Trichloroethane	110	1700	85	310	ND	ND	200
Trichloroethene	200	ND	45	200	ND	ND	2.8
Tetrachloroethene	1000	ND	110	390	ND	ND	0.7
Chloroethane	ND	900	ND	ND	ND	ND	---
Vinyl Chloride	ND	240	ND	ND	ND	ND	0.015

[1] Concentrations in parts per billion (PPB)

ND = Not Detected

[2] NCDEM MCL = North Carolina Division of Environmental Management Maximum Contaminant Levels, in ppb

Note: No organic constituents were detected in the quality assurance blanks.

TABLE 2

SUMMARY OF WATER QUALITY PARAMETERS MEASURED IN THE FIELD*

Textile Chemical Facility

South Graham Street

Charlotte, North Carolina

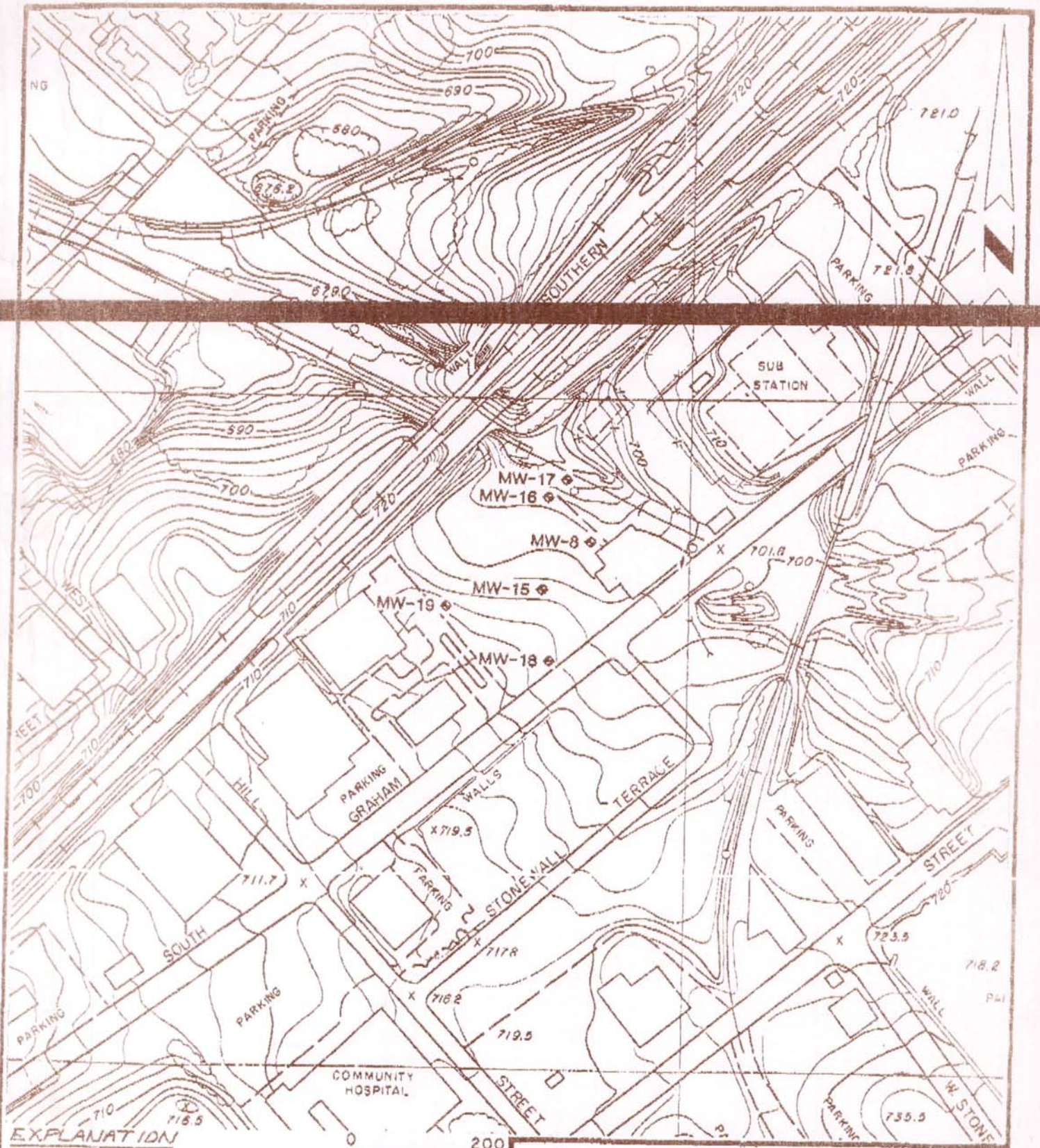
Law Job No. CHW 7301B

Sample Station	Depth to Water (ft)	pH	Temperature (^0C)	Specific Conductivity (umhos/cm)
MW-8[1]	6.7	6.10	13	30
MW-15[2]	14.0	6.45	23	940
MW-16[2]	11.1	6.68	21	470
MW-17[2]	7.4	6.29	19	740
MW-18[3]	17.6	6.22	22	720
MW-19[3]	22.0	6.18	23	760

* Sampled on March 9, 1990

[2] Sampled on April 27, 1990

[3] Sampled on July 31, 1990



EXPLANATION

⊕ APPROX. LOCATION OF MONITORING WELL

0 200
APPROX. SCALE, FT.

REF.: CITY OF CHARLOTTE TOPOGRAPHIC MAP, NO. 5, DATED 1985.

LAW ENGINEERING
CHARLOTTE, NORTH CAROLINA

MONITORING WELL LOCATION PLAN
NFL STADIUM SITE
TEXTILE CHEMICAL FACILITY
CHARLOTTE, NORTH CAROLINA

JOB NO. CHW 7301 B | FIGURE 1

Appendix F

Corrosion Potential Evaluation - GeoTechnologies, Inc.

GeoTechnologies, Inc.
Geotechnical and Construction Materials Testing Services

November 21, 2017

Hart & Hickman
2923 South Tryon Street, Suite 100
Charlotte, NC 28203

Attn: Mr. David Graham

Re: Laboratory Test Results & Corrosion Analysis Report
Gateway Station
Charlotte, South Carolina
GeoTechnologies Project No. 1-17-0965-CA

Dear Mr. Graham:

GeoTechnologies, Inc. has completed the authorized laboratory testing and corrosion analysis for the above referenced site. Our services included performing laboratory electrical resistivity testing (ASTM G-57), review of pH, sulfate and chloride testing performed by Prism Laboratories and a corrosion analysis based upon the laboratory test results. Samples were obtained by Hart & Hickman personnel at five monitoring well locations installed at the locations of five different bridge crossing for the Uptown Charlotte Gateway Station transit project. The purpose of the testing was to evaluate the soil conditions for corrosion potential for new bridge foundations. Laboratory testing was performed at different depth intervals in the 5 well locations. Electrical resistivity testing was performed at 4 depth intervals in wells MW-1, MW-2 and MW-3 and at 3 depth intervals for MW-4 and MW-5. The results of the testing are summarized on the attached table. The average electrical resistivity, pH, sulfate and chloride results are outlined in the table below.

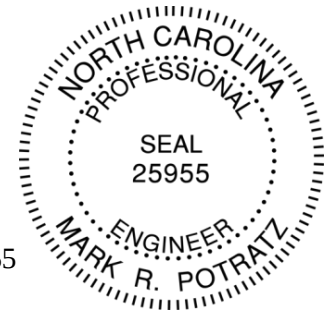
Well ID	Avg. Resistivity (Ohms)	Avg. pH	Avg. Sulfate (ppm)	Avg. Chloride (ppm)	Corrosion Potential
MW-1	4,032	7.2	28	ND	Moderate
MW-2	4,294	6.8	28	15	Moderate
MW-3	3,478	7.7	22	26	Moderate
MW-4	4,328	8.3	93	13	Moderate
MW-5	5,443	6.6	42	ND	Moderate

ND = Not Detected

Corrosion can impact steel piling as well as reinforced concrete shafts. Corrosion potential of soil can be estimated using electrical resistivity, pH, sulfate and chloride test results. Based upon the laboratory test results and published FWHA literature (FHWA-NHI-09-087), it is our opinion that the soils sampled from MW-1 through MW-5 would have a moderate corrosion potential. These results are typical for the North Carolina area and standard construction practices for bridge foundations would be applicable. The lab test results are attached to this letter.

GeoTechnologies, Inc. appreciates the opportunity to be of service on this phase of the project. Please contact us if you have any questions concerning this letter or if we may be of additional service on this or other projects.

Sincerely,
GeoTechnologies, Inc.



Mark R. Potratz, PE
NC Registration No. 25955

Attachments

LAB ELECTRICAL RESISTIVITY TESTING
ASTM G-57

Sample ID	Sample Depth (ft)	Sample Moisture Content (%)	Moisture Designation	Resistivity Ohms
MW-1	9-11	28.7	Natural (Nat)	4,737
		38.9		3,024
		44.4	Stiff Slurry (SS)	2,621
MW-1	19-21	23.6	Nat	5,443
		29.7		3,427
		32.5	SS	3,225
MW-1	29-31	29.6	Nat/SS	5,040
MW-1	39-41	28.8	Nat/SS	4,737
MW-2	9-11	24.9	Nat	9,173
		33.5		4,939
		36.5	SS	4,939
MW-2	19-21	29.4	Nat	3,830
		36.6		3,326
		39.3	SS	3,326
MW-2	29-31	24.6	Nat	3,629
		31.3		2,721
		36.6	SS	2,621
MW-2	37-38.5	32.6	Nat/SS	4,435
MW-3	9-11	18.8	Nat	4,737
		25.6		2,419
		29.8	SS	2,217
MW-3	19-21	19.1	Nat	4,334
		27.6		3,130
		33.6	SS	2,621
MW-3	29-31	15.8	Nat	6,250
		20.6		3,629
		24.5	SS	2,822
MW-3	35-37	42.7	Nat/SS	2,621
MW-4	9-11	18	Nat	2,318
		21.1		1,915
		23.7	SS	1,713
MW-4	19-21	31.2	Nat/SS	2,318
MW-4	28-30	11.1	Nat	9,778
		16		4,435
		20.4	SS	7,822
MW-5	9-11	28.9	Nat/SS	4,838
MW-5	19-21	28.8	Nat/SS	4,233
MW-5	25-27	23.4	Nat/SS	7,258

Case Narrative

10/10/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 09/27/2017
Prism Work Order: 7090439

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/10/2017

Prism Work Order: 7090439

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1 (9-11)	7090439-01	Solid	09/25/17	09/27/17
MW-1 (19-21)	7090439-02	Solid	09/25/17	09/27/17
MW-1 (29-31)	7090439-03	Solid	09/25/17	09/27/17
MW-1 (39-41)	7090439-04	Solid	09/25/17	09/27/17
MW-3 (9-11)	7090439-05	Solid	09/26/17	09/27/17
MW-3 (19-21)	7090439-06	Solid	09/26/17	09/27/17
MW-3 (29-31)	7090439-07	Solid	09/26/17	09/27/17
MW-3 (35-37)	7090439-08	Solid	09/26/17	09/27/17
MW-4 (9-11)	7090439-09	Solid	09/26/17	09/27/17
MW-4 (19-21)	7090439-10	Solid	09/26/17	09/27/17
MW-4 (28-30)	7090439-11	Solid	09/26/17	09/27/17
MW-2 (9-11)	7090439-12	Solid	09/27/17	09/27/17
MW-2 (19-21)	7090439-13	Solid	09/27/17	09/27/17
MW-2 (29-31)	7090439-14	Solid	09/27/17	09/27/17
MW-2 (37-38.5)	7090439-15	Solid	09/27/17	09/27/17

Samples were received in good condition at 4.6 degrees C unless otherwise noted.

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Summary of Detections

10/10/2017

Prism Work Order: 7090439

Prism ID	Client ID	Parameter	Method	Result	Units
7090439-01	MW-1 (9-11)	Sulfate	*9056A	51	mg/kg dry
7090439-01	MW-1 (9-11)	pH	*9045D	7.2	pH Units
7090439-02	MW-1 (19-21)	Sulfate	*9056A	21	mg/kg dry
7090439-02	MW-1 (19-21)	pH	*9045D	7.2	pH Units
7090439-03	MW-1 (29-31)	Sulfate	*9056A	15	mg/kg dry
7090439-03	MW-1 (29-31)	pH	*9045D	7.1	pH Units
7090439-04	MW-1 (39-41)	Sulfate	*9056A	25	mg/kg dry
7090439-04	MW-1 (39-41)	pH	*9045D	7.3	pH Units
7090439-05	MW-3 (9-11)	Sulfate	*9056A	22	mg/kg dry
7090439-05	MW-3 (9-11)	pH	*9045D	8.0	pH Units
7090439-06	MW-3 (19-21)	pH	*9045D	7.2	pH Units
7090439-07	MW-3 (29-31)	pH	*9045D	7.4	pH Units
7090439-08	MW-3 (35-37)	Chloride	*9056A	26	mg/kg dry
7090439-08	MW-3 (35-37)	pH	*9045D	8.0	pH Units
7090439-09	MW-4 (9-11)	Chloride	*9056A	12	mg/kg dry
7090439-09	MW-4 (9-11)	Sulfate	*9056A	130	mg/kg dry
7090439-09	MW-4 (9-11)	pH	*9045D	8.1	pH Units
7090439-10	MW-4 (19-21)	pH	*9045D	8.4	pH Units
7090439-11	MW-4 (28-30)	Chloride	*9056A	14	mg/kg dry
7090439-11	MW-4 (28-30)	Sulfate	*9056A	56	mg/kg dry
7090439-11	MW-4 (28-30)	pH	*9045D	8.4	pH Units
7090439-12	MW-2 (9-11)	Chloride	*9056A	14	mg/kg dry
7090439-12	MW-2 (9-11)	Sulfate	*9056A	39	mg/kg dry
7090439-12	MW-2 (9-11)	pH	*9045D	7.1	pH Units
7090439-13	MW-2 (19-21)	Chloride	*9056A	20	mg/kg dry
7090439-13	MW-2 (19-21)	Sulfate	*9056A	20	mg/kg dry
7090439-13	MW-2 (19-21)	pH	*9045D	6.5	pH Units
7090439-14	MW-2 (29-31)	Sulfate	*9056A	24	mg/kg dry
7090439-14	MW-2 (29-31)	pH	*9045D	6.6	pH Units
7090439-15	MW-2 (37-38.5)	Chloride	*9056A	12	mg/kg dry
7090439-15	MW-2 (37-38.5)	pH	*9045D	6.9	pH Units

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-1 (9-11)
Prism Sample ID: 7090439-01
Prism Work Order: 7090439
Time Collected: 09/25/17 11:00
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	13	0.66	1	*9056A	9/28/17 23:03	EGC	P7I0467
Sulfate	**51**	**mg/kg dry**	**13**	**0.98**	**1**	***9056A**	**9/28/17 23:03**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**76.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.2**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-1 (19-21)
Prism Sample ID: 7090439-02
Prism Work Order: 7090439
Time Collected: 09/25/17 11:15
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	13	0.64	1	*9056A	9/28/17 20:40	EGC	P7I0467
Sulfate	**21**	**mg/kg dry**	**13**	**0.95**	**1**	***9056A**	**9/28/17 20:40**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**78.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.2**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-1 (29-31)
Prism Sample ID: 7090439-03
Prism Work Order: 7090439
Time Collected: 09/25/17 11:50
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	12	0.62	1	*9056A	9/28/17 23:18	EGC	P7I0467
Sulfate	**15**	**mg/kg dry**	**12**	**0.93**	**1**	***9056A**	**9/28/17 23:18**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**80.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.1**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-1 (39-41)
Prism Sample ID: 7090439-04
Prism Work Order: 7090439
Time Collected: 09/25/17 12:20
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	12	0.61	1	*9056A	9/28/17 23:34	EGC	P7I0467
Sulfate	**25**	**mg/kg dry**	**12**	**0.91**	**1**	***9056A**	**9/28/17 23:34**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**82.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.3**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-3 (9-11)
Prism Sample ID: 7090439-05
Prism Work Order: 7090439
Time Collected: 09/26/17 09:05
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	12	0.59	1	*9056A	9/29/17 0:22	EGC	P7I0467
Sulfate	**22**	**mg/kg dry**	**12**	**0.88**	**1**	***9056A**	**9/29/17 0:22**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**84.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**8.0**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-3 (19-21)
Prism Sample ID: 7090439-06
Prism Work Order: 7090439
Time Collected: 09/26/17 09:30
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	12	0.62	1	*9056A	9/29/17 0:37	EGC	P7I0467
Sulfate	BRL	mg/kg dry	12	0.92	1	*9056A	9/29/17 0:37	EGC	P7I0467
General Chemistry Parameters									
% Solids	**81.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.2**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-3 (29-31)
Prism Sample ID: 7090439-07
Prism Work Order: 7090439
Time Collected: 09/26/17 10:05
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	12	0.58	1	*9056A	9/29/17 0:53	EGC	P7I0467
Sulfate	BRL	mg/kg dry	12	0.87	1	*9056A	9/29/17 0:53	EGC	P7I0467
General Chemistry Parameters									
% Solids	**86.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.4**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-3 (35-37)
Prism Sample ID: 7090439-08
Prism Work Order: 7090439
Time Collected: 09/26/17 11:35
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**26**	**mg/kg dry**	**14**	**0.69**	**1**	***9056A**	**9/29/17 1:09**	**EGC**	**P7I0467**
Sulfate	BRL	mg/kg dry	14	1.0	1	*9056A	9/29/17 1:09	EGC	P7I0467
General Chemistry Parameters									
% Solids	**72.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**8.0**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-4 (9-11)
Prism Sample ID: 7090439-09
Prism Work Order: 7090439
Time Collected: 09/26/17 14:25
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**12**	**mg/kg dry**	**12**	**0.60**	**1**	***9056A**	**9/29/17 1:25**	**EGC**	**P7I0467**
Sulfate	**130**	**mg/kg dry**	**12**	**0.89**	**1**	***9056A**	**9/29/17 1:25**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**84.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**8.1**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-4 (19-21)
Prism Sample ID: 7090439-10
Prism Work Order: 7090439
Time Collected: 09/26/17 15:20
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	11	0.57	1	*9056A	9/29/17 1:41	EGC	P7I0467
Sulfate	BRL	mg/kg dry	11	0.85	1	*9056A	9/29/17 1:41	EGC	P7I0467
General Chemistry Parameters									
% Solids	**88.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**8.4**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-4 (28-30)
Prism Sample ID: 7090439-11
Prism Work Order: 7090439
Time Collected: 09/26/17 16:00
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**14**	**mg/kg dry**	**11**	**0.56**	**1**	***9056A**	**9/29/17 1:56**	**EGC**	**P7I0467**
Sulfate	**56**	**mg/kg dry**	**11**	**0.83**	**1**	***9056A**	**9/29/17 1:56**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**90.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**8.4**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-2 (9-11)
Prism Sample ID: 7090439-12
Prism Work Order: 7090439
Time Collected: 09/27/17 09:00
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**14**	**mg/kg dry**	**13**	**0.64**	**1**	***9056A**	**9/29/17 2:12**	**EGC**	**P7I0467**
Sulfate	**39**	**mg/kg dry**	**13**	**0.96**	**1**	***9056A**	**9/29/17 2:12**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**78.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**7.1**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-2 (19-21)
Prism Sample ID: 7090439-13
Prism Work Order: 7090439
Time Collected: 09/27/17 09:15
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**20**	**mg/kg dry**	**13**	**0.65**	**1**	***9056A**	**9/29/17 2:28**	**EGC**	**P7I0467**
Sulfate	**20**	**mg/kg dry**	**13**	**0.97**	**1**	***9056A**	**9/29/17 2:28**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**77.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**6.5**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-2 (29-31)
Prism Sample ID: 7090439-14
Prism Work Order: 7090439
Time Collected: 09/27/17 10:00
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	13	0.64	1	*9056A	9/29/17 2:44	EGC	P7I0467
Sulfate	**24**	**mg/kg dry**	**13**	**0.96**	**1**	***9056A**	**9/29/17 2:44**	**EGC**	**P7I0467**
General Chemistry Parameters									
% Solids	**78.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**6.6**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Laboratory Report

10/10/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-2 (37-38.5)
Prism Sample ID: 7090439-15
Prism Work Order: 7090439
Time Collected: 09/27/17 10:30
Time Submitted: 09/27/17 13:31

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**12**	**mg/kg dry**	**12**	**0.60**	**1**	***9056A**	**10/5/17 19:45**	**EGC**	**P7J0075**
Sulfate	BRL	mg/kg dry	12	0.90	1	*9056A	10/5/17 19:45	EGC	P7J0075
General Chemistry Parameters									
% Solids	**83.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/6/17 15:00**	**JLB**	**P7J0135**
pH	**6.9**	**pH Units**			**1**	***9045D**	**9/28/17 11:51**	**BMS**	**P7I0457**

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090439
Time Submitted: 9/27/2017 1:31:00PM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7I0467 - Default Prep GenChem										
Blank (P7I0467-BLK1)				Prepared & Analyzed: 09/28/17						
Chloride	BRL	10	mg/kg wet							
Sulfate	BRL	10	mg/kg wet							
LCS (P7I0467-BS1)				Prepared & Analyzed: 09/28/17						
Chloride	1030	10	mg/kg wet	1000		103	80-120			
Sulfate	1030	10	mg/kg wet	1000		103	80-120			
Matrix Spike (P7I0467-MS1)		**Source: 7090439-02**		Prepared & Analyzed: 09/28/17						
Chloride	1260	13	mg/kg dry	1269	10.8	99	80-120			
Sulfate	1270	13	mg/kg dry	1269	21.2	98	80-120			
Matrix Spike Dup (P7I0467-MSD1)		**Source: 7090439-02**		Prepared & Analyzed: 09/28/17						
Chloride	1250	13	mg/kg dry	1269	10.8	98	80-120	0.8	15	
Sulfate	1250	13	mg/kg dry	1269	21.2	97	80-120	1	15	
Batch P7J0075 - Default Prep GenChem										
Blank (P7J0075-BLK1)				Prepared & Analyzed: 10/05/17						
Chloride	BRL	10	mg/kg wet							
Sulfate	BRL	10	mg/kg wet							
LCS (P7J0075-BS1)				Prepared & Analyzed: 10/05/17						
Chloride	1030	10	mg/kg wet	1000		103	80-120			
Sulfate	1030	10	mg/kg wet	1000		103	80-120			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7090439
Time Submitted: 9/27/2017 1:31:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7I0457 - NO PREP										
LCS (P7I0457-BS1)				Prepared & Analyzed: 09/28/17						
pH	6.89		pH Units	6.880		100	99-101			
Duplicate (P7I0457-DUP1)		**Source: 7090439-01**		Prepared & Analyzed: 09/28/17						
pH	7.22		pH Units		7.18			0.6	20	
Duplicate (P7I0457-DUP2)		**Source: 7090439-11**		Prepared & Analyzed: 09/28/17						
pH	8.38		pH Units		8.35			0.4	20	
Batch P7J0135 - Solids, Dry Weight										
Duplicate (P7J0135-DUP1)		**Source: 7090439-02**		Prepared & Analyzed: 10/06/17						
% Solids	79.0	0.100	% by Weight		78.8			0.3	20	
Duplicate (P7J0135-DUP2)		**Source: 7090439-12**		Prepared & Analyzed: 10/06/17						
% Solids	79.3	0.100	% by Weight		78.3			1	20	

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Sample Extraction Data

Prep Method: Default Prep GenChem

Lab Number	Batch	Initial	Final	Date/Time
7090439-01	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-02	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-03	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-04	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-05	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-06	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-07	P7I0467	5 g	50 mL	09/28/17 17:33
7090439-08	P7I0467	5 g	50 mL	09/29/17 1:09
7090439-09	P7I0467	5 g	50 mL	09/29/17 1:25
7090439-10	P7I0467	5 g	50 mL	09/29/17 1:41
7090439-11	P7I0467	5 g	50 mL	09/29/17 1:56
7090439-12	P7I0467	5 g	50 mL	09/29/17 2:12
7090439-13	P7I0467	5 g	50 mL	09/29/17 2:28
7090439-14	P7I0467	5 g	50 mL	09/29/17 2:44
7090439-15	P7J0075	5 g	50 mL	10/05/17 9:25

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
7090439-01	P7J0135	30 g	30 g	10/06/17 15:00
7090439-02	P7J0135	30 g	30 g	10/06/17 15:00
7090439-03	P7J0135	30 g	30 g	10/06/17 15:00
7090439-04	P7J0135	30 g	30 g	10/06/17 15:00
7090439-05	P7J0135	30 g	30 g	10/06/17 15:00
7090439-06	P7J0135	30 g	30 g	10/06/17 15:00
7090439-07	P7J0135	30 g	30 g	10/06/17 15:00
7090439-08	P7J0135	30 g	30 g	10/06/17 15:00
7090439-09	P7J0135	30 g	30 g	10/06/17 15:00
7090439-10	P7J0135	30 g	30 g	10/06/17 15:00
7090439-11	P7J0135	30 g	30 g	10/06/17 15:00
7090439-12	P7J0135	30 g	30 g	10/06/17 15:00
7090439-13	P7J0135	30 g	30 g	10/06/17 15:00
7090439-14	P7J0135	30 g	30 g	10/06/17 15:00
7090439-15	P7J0135	30 g	30 g	10/06/17 15:00

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Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: ROW, SIS

Project Name: Charlotte Gateway Station and Track & Street Improvement
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS# 44475.1.2
Address:

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2423 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.586.0007 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte NC

Purchase Order No./Billing Reference ROW, SIS
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☑ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-7 Observed: 5.1 °C / Corr: 4.6 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	pH 9045	Chloride 4500	Sulfate 9056				REMARKS	PRISM LAB ID NO.
MW-1 (9'-11')	09/25/17	10:00	SOIL	C, G	1	4 oz	None ~~Varies~~	X	X	X					01
MW-1 (19'-21')	↓	11:15	↓	↓	↓	↓	↓	X	X	X					02
MW-1 (29'-31')	↓	11:50	↓	↓	↓	↓	↓	X	X	X					03
MW-1 (39'-41')	↓	12:20	↓	↓	↓	↓	↓	X	X	X					04
MW-3 (9'-11')	09/26/17	09:05	↓	↓	↓	↓	↓	X	X	X					05
MW-3 (19'-21')	↓	09:30	↓	↓	↓	↓	↓	X	X	X					06
MW-3 (29'-31')	↓	10:05	↓	↓	↓	↓	↓	X	X	X					07
MW-3 (35'-37')	↓	11:35	↓	↓	↓	↓	↓	X	X	X					08
MW-4 (9'-11')	↓	14:25	↓	↓	↓	↓	↓	X	X	X					09
MW-4 (19'-21')	↓	15:20	↓	↓	↓	↓	↓	X	X	X					10

Sampler's Signature [signature] Sampled By (Print Name) Kenneth Windsand Affiliation Hart & Hickman PC

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Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature] / H&H		09/27/17	13:31
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 9-27-17	1331

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 7090439

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

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CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: RAW-SIS

Client Company Name: Hart & Hickman PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.586.0007 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte NC

Project Name: Charlotte Gateway Station
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS # 44475.1.2
Address:

Purchase Order No./Billing Reference RAW-SIS
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☑ 5 Days (Standard)
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: 187 Observed: 5.1 °C / Corr: 4.8 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	pH 9045	Alkalinity 9310	Sulfate 9056				REMARKS	PRISM LAB ID NO.
MW-4 (28'-30')	09/26/17	16.00	SOIL	C, G	1	4 oz	None	X	X	X					11
MW-2 (9'-11')	09/27/17	09:00	↓	↓	↓	↓	↓	X	X	X					12
MW-2 (19'-21')	↓	09:15	↓	↓	↓	↓	↓	X	X	X					13
MW-2 (29'-31')	↓	10:00	↓	↓	↓	↓	↓	X	X	X					14
MW-2 (37'-38.5')	↓	10:30	↓	↓	↓	↓	↓	X	X	X					15

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Kenneth Windsand Affiliation Hart & Hickman PC

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature] / H&H		09/27/17	13:31
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 9-27-17	1331

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 7090439

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

Case Narrative

10/11/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 10/02/2017
Prism Work Order: 7100022

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Cara C. Rusmisell For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
HT	Sample received and analyzed outside of the hold time.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
M	Matrix spike outside of the control limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/11/2017

Prism Work Order: 7100022

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-1	7100022-01	Water	10/02/17	10/02/17
MW-2	7100022-02	Water	10/02/17	10/02/17
MW-3	7100022-03	Water	10/02/17	10/02/17
MW-4	7100022-04	Water	10/02/17	10/02/17

Samples were received in good condition at 2.3 degrees C unless otherwise noted.

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Summary of Detections

10/11/2017

Prism Work Order: 7100022

Prism ID	Client ID	Parameter	Method	Result		Units
7100022-01	MW-1	Chloride	*9056A	28		mg/L
7100022-01	MW-1	Sulfate	*9056A	30		mg/L
7100022-01	MW-1	Barium	*6010D	0.057		mg/L
7100022-01	MW-1	pH	*SM4500-H B	6.3	HT	pH Units
7100022-01	MW-1	Barium	*6010D	0.057		mg/L
7100022-01	MW-1	Chloroform	*8260B	9.5		ug/L
7100022-01	MW-1	Tetrachloroethylene	*8260B	37		ug/L
7100022-01	MW-1	Trichloroethylene	*8260B	1.8		ug/L
7100022-02	MW-2	Chloride	*9056A	45		mg/L
7100022-02	MW-2	Sulfate	*9056A	53		mg/L
7100022-02	MW-2	Barium	*6010D	0.081		mg/L
7100022-02	MW-2	pH	*SM4500-H B	5.9	HT	pH Units
7100022-02	MW-2	Barium	*6010D	0.083		mg/L
7100022-02	MW-2	Carbon Tetrachloride	*8260B	9.2		ug/L
7100022-02	MW-2	Chloroform	*8260B	11		ug/L
7100022-02	MW-2	cis-1,2-Dichloroethylene	*8260B	3.0		ug/L
7100022-02	MW-2	Methyl-tert-Butyl Ether	*8260B	0.52		ug/L
7100022-02	MW-2	Tetrachloroethylene	*8260B	55		ug/L
7100022-02	MW-2	Trichloroethylene	*8260B	13		ug/L
7100022-03	MW-3	Chloride	*9056A	64		mg/L
7100022-03	MW-3	Sulfate	*9056A	21		mg/L
7100022-03	MW-3	Barium	*6010D	0.030		mg/L
7100022-03	MW-3	pH	*SM4500-H B	6.4	HT	pH Units
7100022-03	MW-3	Barium	*6010D	0.030		mg/L
7100022-03	MW-3	Chloroform	*8260B	6.7		ug/L
7100022-03	MW-3	Tetrachloroethylene	*8260B	1.2		ug/L
7100022-04	MW-4	Chloride	*9056A	43		mg/L
7100022-04	MW-4	Sulfate	*9056A	61		mg/L
7100022-04	MW-4	Barium	*6010D	0.15		mg/L
7100022-04	MW-4	pH	*SM4500-H B	6.4	HT	pH Units
7100022-04	MW-4	Barium	*6010D	0.15		mg/L
7100022-04	MW-4	Carbon Tetrachloride	*8260B	12		ug/L
7100022-04	MW-4	Chloroform	*8260B	2.4		ug/L
7100022-04	MW-4	Isopropyl Ether	*8260B	5.8		ug/L

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**28**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 21:19**	**EGC**	**P7J0094**
Sulfate	**30**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 21:19**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:22	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:36	JAB	P7J0065
Barium	**0.057**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:36**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:36	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:36	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:36	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:36	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:36	JAB	P7J0065
General Chemistry Parameters									
pH	**6.3 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.96	1	*8270D	10/9/17 17:44	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.62	1	*8270D	10/9/17 17:44	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 17:44	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 17:44	JMV	P7J0137
Aniline	BRL	ug/L	10	2.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 17:44	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.8	1	*8270D	10/9/17 17:44	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	4.0	1	*8270D	10/9/17 17:44	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 17:44	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 17:44	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 17:44	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 17:44	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.3	1	*8270D	10/9/17 17:44	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137
Phenol	BRL	ug/L	10	1.0	1	*8270D	10/9/17 17:44	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 17:44	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*87 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl				*84 %*		*44-119*
			2-Fluorophenol				*54 %*		*19-119*
			Nitrobenzene-d5				*82 %*		*44-120*
			Phenol-d5				*34 %*		*11-52*
			Terphenyl-d14				*109 %*		*50-134*
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:32	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 17:17	JAB	P7J0059
Barium	**0.057**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 17:17**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 17:17	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 17:17	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 17:17	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 17:17	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 17:17	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 19:25	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:25	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:25	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:25	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 19:25	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 19:25	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:25	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:25	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 19:25	KDM	P7J0072

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 19:25	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 19:25	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 19:25	KDM	P7J0072
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:25	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 19:25	KDM	P7J0072
Chloroform	**9.5**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 19:25**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:25	KDM	P7J0072
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/4/17 19:25	KDM	P7J0072
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:25	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 19:25	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 19:25	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 19:25	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:25	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 19:25	KDM	P7J0072
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:25	KDM	P7J0072
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:25	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 19:25	KDM	P7J0072
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/4/17 19:25	KDM	P7J0072
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 19:25	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 19:25	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:25	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:25	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 19:25	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 19:25	KDM	P7J0072
Tetrachloroethylene	**37**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/4/17 19:25**	**KDM**	**P7J0072**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:25	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 19:25	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 19:25	KDM	P7J0072
Trichloroethylene	**1.8**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**10/4/17 19:25**	**KDM**	**P7J0072**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:25	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 19:25	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 19:25	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-1
Prism Sample ID: 7100022-01
Prism Work Order: 7100022
Time Collected: 10/02/17 13:25
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*98 %*	*75-129*	
			Toluene-d8				*95 %*	*77-123*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**45**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 22:07**	**EGC**	**P7J0094**
Sulfate	**53**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 22:07**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:26	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:09	JAB	P7J0065
Barium	**0.081**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:09**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:09	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:09	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:09	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:09	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:09	JAB	P7J0065
General Chemistry Parameters									
pH	**5.9 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:07	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:07	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	10/9/17 18:07	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	10/9/17 18:07	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:07	JMV	P7J0137
Aniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:07	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:07	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:07	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:07	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	10/9/17 18:07	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.5	1	*8270D	10/9/17 18:07	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:07	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 18:07	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:07	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:07	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:07	JMV	P7J0137
Phenol	BRL	ug/L	10	0.98	1	*8270D	10/9/17 18:07	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:07	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*81 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			76 %		44-119	
			2-Fluorophenol			50 %		19-119	
			Nitrobenzene-d5			74 %		44-120	
			Phenol-d5			31 %		11-52	
			Terphenyl-d14			104 %		50-134	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:44	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 17:43	JAB	P7J0059
Barium	**0.083**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 17:43**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 17:43	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 17:43	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 17:43	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 17:43	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 17:43	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 19:51	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:51	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 19:51	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:51	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 19:51	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 19:51	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:51	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 19:51	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 19:51	KDM	P7J0072

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 19:51	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 19:51	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 19:51	KDM	P7J0072
Carbon Tetrachloride	**9.2**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:51	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 19:51	KDM	P7J0072
Chloroform	**11**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:51	KDM	P7J0072
cis-1,2-Dichloroethylene	**3.0**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 19:51	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 19:51	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 19:51	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 19:51	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 19:51	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 19:51	KDM	P7J0072
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 19:51	KDM	P7J0072
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 19:51	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 19:51	KDM	P7J0072
Methyl-tert-Butyl Ether	**0.52**	**ug/L**	**0.50**	**0.042**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 19:51	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 19:51	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:51	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 19:51	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 19:51	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 19:51	KDM	P7J0072
Tetrachloroethylene	**55**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 19:51	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 19:51	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 19:51	KDM	P7J0072
Trichloroethylene	**13**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**10/4/17 19:51**	**KDM**	**P7J0072**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 19:51	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 19:51	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 19:51	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-2
Prism Sample ID: 7100022-02
Prism Work Order: 7100022
Time Collected: 10/02/17 11:50
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*101 %*	*75-129*	
			Toluene-d8				*99 %*	*77-123*	

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**64**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 22:23**	**EGC**	**P7J0094**
Sulfate	**21**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 22:23**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:11	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:44	JAB	P7J0065
Barium	**0.030**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:44**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:44	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:44	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:44	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:44	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:44	JAB	P7J0065
General Chemistry Parameters									
pH	**6.4 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:29	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	10	1.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	10	3.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	10	2.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	10	1.9	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Methylphenol	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:29	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	10	0.93	1	*8270D	10/9/17 18:29	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	10	0.60	1	*8270D	10/9/17 18:29	JMV	P7J0137
Acenaphthene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
Acenaphthylene	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:29	JMV	P7J0137
Aniline	BRL	ug/L	10	2.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Azobenzene	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	10	1.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzoic Acid	BRL	ug/L	100	4.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.0	1	*8270D	10/9/17 18:29	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Chrysene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:29	JMV	P7J0137
Dibenzofuran	BRL	ug/L	10	1.8	1	*8270D	10/9/17 18:29	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	10	3.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Fluoranthene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Fluorene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	10	2.1	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Hexachloroethane	BRL	ug/L	10	1.7	1	*8270D	10/9/17 18:29	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	3.9	1	*8270D	10/9/17 18:29	JMV	P7J0137
Isophorone	BRL	ug/L	10	2.5	1	*8270D	10/9/17 18:29	JMV	P7J0137
Naphthalene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
Nitrobenzene	BRL	ug/L	10	2.6	1	*8270D	10/9/17 18:29	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.2	1	*8270D	10/9/17 18:29	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	10	1.3	1	*8270D	10/9/17 18:29	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	10	1.2	1	*8270D	10/9/17 18:29	JMV	P7J0137
Phenanthrene	BRL	ug/L	10	1.5	1	*8270D	10/9/17 18:29	JMV	P7J0137
Phenol	BRL	ug/L	10	0.98	1	*8270D	10/9/17 18:29	JMV	P7J0137
Pyrene	BRL	ug/L	10	1.4	1	*8270D	10/9/17 18:29	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*101 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			97 %		44-119	
			2-Fluorophenol			62 %		19-119	
			Nitrobenzene-d5			92 %		44-120	
			Phenol-d5			38 %		11-52	
			Terphenyl-d14			119 %		50-134	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:48	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 17:52	JAB	P7J0059
Barium	**0.030**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 17:52**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 17:52	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 17:52	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 17:52	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 17:52	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 17:52	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 20:16	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:16	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:16	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:16	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 20:16	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 20:16	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:16	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:16	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 20:16	KDM	P7J0072

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 20:16	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 20:16	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 20:16	KDM	P7J0072
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:16	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 20:16	KDM	P7J0072
Chloroform	**6.7**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 20:16**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:16	KDM	P7J0072
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/4/17 20:16	KDM	P7J0072
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:16	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 20:16	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 20:16	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 20:16	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:16	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 20:16	KDM	P7J0072
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:16	KDM	P7J0072
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:16	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 20:16	KDM	P7J0072
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/4/17 20:16	KDM	P7J0072
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 20:16	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 20:16	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:16	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:16	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 20:16	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 20:16	KDM	P7J0072
Tetrachloroethylene	**1.2**	**ug/L**	**0.50**	**0.098**	**1**	***8260B**	**10/4/17 20:16**	**KDM**	**P7J0072**
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:16	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 20:16	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 20:16	KDM	P7J0072
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/4/17 20:16	KDM	P7J0072
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:16	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 20:16	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 20:16	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-3
Prism Sample ID: 7100022-03
Prism Work Order: 7100022
Time Collected: 10/02/17 15:20
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*101 %*	*75-129*	
			Toluene-d8				*100 %*	*77-123*	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**43**	**mg/L**	**1.0**	**0.040**	**1**	***9056A**	**10/5/17 22:39**	**EGC**	**P7J0094**
Sulfate	**61**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**10/5/17 22:39**	**EGC**	**P7J0094**
Dissolved Metals									
Mercury	BRL	mg/L	0.00020	0.000030	1	*7470A	10/10/17 14:30	JAB	P7J0150
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 13:53	JAB	P7J0065
Barium	**0.15**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 13:53**	**JAB**	**P7J0065**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 13:53	JAB	P7J0065
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 13:53	JAB	P7J0065
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 13:53	JAB	P7J0065
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 13:53	JAB	P7J0065
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 13:53	JAB	P7J0065
General Chemistry Parameters									
pH	**6.4 HT**	**pH Units**			**1**	***SM4500-H B**	**10/2/17 16:56**	**EGC**	**P7J0052**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
1,2-Dichlorobenzene	BRL	ug/L	11	1.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
1,3-Dichlorobenzene	BRL	ug/L	11	2.0	1	*8270D	10/9/17 18:52	JMV	P7J0137
1,4-Dichlorobenzene	BRL	ug/L	11	1.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
1-Methylnaphthalene	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4,5-Trichlorophenol	BRL	ug/L	11	1.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4,6-Trichlorophenol	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dichlorophenol	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dimethylphenol	BRL	ug/L	11	3.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dinitrophenol	BRL	ug/L	11	2.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,4-Dinitrotoluene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
2,6-Dinitrotoluene	BRL	ug/L	11	1.2	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Chloronaphthalene	BRL	ug/L	11	2.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Chlorophenol	BRL	ug/L	11	2.0	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Methylnaphthalene	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Methylphenol	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Nitroaniline	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
2-Nitrophenol	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
3/4-Methylphenol	BRL	ug/L	11	1.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
3-Nitroaniline	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Bromophenyl phenyl ether	BRL	ug/L	11	1.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Chloro-3-methylphenol	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Chloroaniline	BRL	ug/L	11	2.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Chlorophenyl phenyl ether	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
4-Nitroaniline	BRL	ug/L	11	0.98	1	*8270D	10/9/17 18:52	JMV	P7J0137

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Nitrophenol	BRL	ug/L	11	0.63	1	*8270D	10/9/17 18:52	JMV	P7J0137
Acenaphthene	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
Acenaphthylene	BRL	ug/L	11	2.1	1	*8270D	10/9/17 18:52	JMV	P7J0137
Aniline	BRL	ug/L	11	2.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Anthracene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Azobenzene	BRL	ug/L	11	1.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(a)anthracene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(a)pyrene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(b)fluoranthene	BRL	ug/L	11	1.2	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(g,h,i)perylene	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzo(k)fluoranthene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzoic Acid	BRL	ug/L	110	4.9	1	*8270D	10/9/17 18:52	JMV	P7J0137
Benzyl alcohol	BRL	ug/L	11	2.2	1	*8270D	10/9/17 18:52	JMV	P7J0137
bis(2-Chloroethoxy)methane	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
Bis(2-Chloroethyl)ether	BRL	ug/L	11	2.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	2.1	1	*8270D	10/9/17 18:52	JMV	P7J0137
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Butyl benzyl phthalate	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Chrysene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Dibenzo(a,h)anthracene	BRL	ug/L	11	1.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
Dibenzofuran	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Diethyl phthalate	BRL	ug/L	11	3.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Dimethyl phthalate	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Di-n-butyl phthalate	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Di-n-octyl phthalate	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Fluoranthene	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Fluorene	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachlorobenzene	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachlorobutadiene	BRL	ug/L	11	2.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachlorocyclopentadiene	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Hexachloroethane	BRL	ug/L	11	1.8	1	*8270D	10/9/17 18:52	JMV	P7J0137
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	4.1	1	*8270D	10/9/17 18:52	JMV	P7J0137
Isophorone	BRL	ug/L	11	2.6	1	*8270D	10/9/17 18:52	JMV	P7J0137
Naphthalene	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
Nitrobenzene	BRL	ug/L	11	2.7	1	*8270D	10/9/17 18:52	JMV	P7J0137
N-Nitroso-di-n-propylamine	BRL	ug/L	11	2.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
N-Nitrosodiphenylamine	BRL	ug/L	11	1.4	1	*8270D	10/9/17 18:52	JMV	P7J0137
Pentachlorophenol	BRL	ug/L	11	1.3	1	*8270D	10/9/17 18:52	JMV	P7J0137
Phenanthrene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137
Phenol	BRL	ug/L	11	1.0	1	*8270D	10/9/17 18:52	JMV	P7J0137
Pyrene	BRL	ug/L	11	1.5	1	*8270D	10/9/17 18:52	JMV	P7J0137

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*94 %*	*43-140*

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl				*81 %*	*44-119*	
			2-Fluorophenol				*52 %*	*19-119*	
			Nitrobenzene-d5				*73 %*	*44-120*	
			Phenol-d5				*34 %*	*11-52*	
			Terphenyl-d14				*114 %*	*50-134*	
Total Metals									
Mercury	BRL	mg/L	0.00020	0.000036	1	*7470A	10/10/17 12:51	JAB	P7J0149
Arsenic	BRL	mg/L	0.010	0.0031	1	*6010D	10/5/17 18:01	JAB	P7J0059
Barium	**0.15**	**mg/L**	**0.010**	**0.00080**	**1**	***6010D**	**10/5/17 18:01**	**JAB**	**P7J0059**
Cadmium	BRL	mg/L	0.0010	0.00015	1	*6010D	10/5/17 18:01	JAB	P7J0059
Chromium	BRL	mg/L	0.0050	0.00036	1	*6010D	10/5/17 18:01	JAB	P7J0059
Lead	BRL	mg/L	0.0050	0.00080	1	*6010D	10/5/17 18:01	JAB	P7J0059
Selenium	BRL	mg/L	0.020	0.0056	1	*6010D	10/5/17 18:01	JAB	P7J0059
Silver	BRL	mg/L	0.0050	0.00039	1	*6010D	10/5/17 18:01	JAB	P7J0059
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	10/4/17 20:42	KDM	P7J0072
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:42	KDM	P7J0072
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	10/4/17 20:42	KDM	P7J0072
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	10/4/17 20:42	KDM	P7J0072
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	10/4/17 20:42	KDM	P7J0072
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	10/4/17 20:42	KDM	P7J0072
Acrolein	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:42	KDM	P7J0072
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	10/4/17 20:42	KDM	P7J0072
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	10/4/17 20:42	KDM	P7J0072

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Laboratory Report

10/11/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	10/4/17 20:42	KDM	P7J0072
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	10/4/17 20:42	KDM	P7J0072
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	10/4/17 20:42	KDM	P7J0072
Carbon Tetrachloride	**12**	**ug/L**	**0.50**	**0.11**	**1**	***8260B**	**10/4/17 20:42**	**KDM**	**P7J0072**
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:42	KDM	P7J0072
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	10/4/17 20:42	KDM	P7J0072
Chloroform	**2.4**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/4/17 20:42**	**KDM**	**P7J0072**
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:42	KDM	P7J0072
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	10/4/17 20:42	KDM	P7J0072
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	10/4/17 20:42	KDM	P7J0072
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	10/4/17 20:42	KDM	P7J0072
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	10/4/17 20:42	KDM	P7J0072
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/4/17 20:42	KDM	P7J0072
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/4/17 20:42	KDM	P7J0072
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	10/4/17 20:42	KDM	P7J0072
Isopropyl Ether	**5.8**	**ug/L**	**0.50**	**0.050**	**1**	***8260B**	**10/4/17 20:42**	**KDM**	**P7J0072**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	10/4/17 20:42	KDM	P7J0072
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	10/4/17 20:42	KDM	P7J0072
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	10/4/17 20:42	KDM	P7J0072
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	10/4/17 20:42	KDM	P7J0072
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/4/17 20:42	KDM	P7J0072
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:42	KDM	P7J0072
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/4/17 20:42	KDM	P7J0072
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/4/17 20:42	KDM	P7J0072
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	10/4/17 20:42	KDM	P7J0072
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	10/4/17 20:42	KDM	P7J0072
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	10/4/17 20:42	KDM	P7J0072
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	10/4/17 20:42	KDM	P7J0072
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	10/4/17 20:42	KDM	P7J0072
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/4/17 20:42	KDM	P7J0072
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/4/17 20:42	KDM	P7J0072
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	10/4/17 20:42	KDM	P7J0072
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	10/4/17 20:42	KDM	P7J0072

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Water

Client Sample ID: MW-4
Prism Sample ID: 7100022-04
Prism Work Order: 7100022
Time Collected: 10/02/17 13:00
Time Submitted: 10/02/17 16:40

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*102 %*	*75-129*	
			Toluene-d8				*98 %*	*77-123*	

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
Blank (P7J0072-BLK1)				Prepared & Analyzed: 10/04/17						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
Blank (P7J0072-BLK1)				Prepared & Analyzed: 10/04/17						
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.6*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*50.4*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.00*		*99*	*77-123*			
LCS (P7J0072-BS1)				Prepared & Analyzed: 10/04/17						
1,1,1,2-Tetrachloroethane	17.6	0.50	ug/L	20.00		88	79-134			
1,1,1-Trichloroethane	18.2	0.50	ug/L	20.00		91	75-136			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	62-127			
1,1,2-Trichloroethane	19.4	0.50	ug/L	20.00		97	70-140			
1,1-Dichloroethane	20.0	0.50	ug/L	20.00		100	78-130			
1,1-Dichloroethylene	18.3	0.50	ug/L	20.00		92	70-154			
1,1-Dichloropropylene	17.4	0.50	ug/L	20.00		87	71-136			
1,2,3-Trichlorobenzene	18.9	2.0	ug/L	20.00		95	58-144			
1,2,3-Trichloropropane	18.9	1.0	ug/L	20.00		95	71-127			
1,2,4-Trichlorobenzene	19.2	1.0	ug/L	20.00		96	66-139			
1,2,4-Trimethylbenzene	19.9	0.50	ug/L	20.00		100	75-133			
1,2-Dibromo-3-chloropropane	17.8	2.0	ug/L	20.00		89	63-134			
1,2-Dibromoethane	21.0	0.50	ug/L	20.00		105	77-135			
1,2-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	78-128			
1,2-Dichloroethane	19.7	0.50	ug/L	20.00		99	68-131			
1,2-Dichloropropane	19.5	0.50	ug/L	20.00		97	77-130			
1,3,5-Trimethylbenzene	19.7	0.50	ug/L	20.00		98	75-131			
1,3-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	77-125			
1,3-Dichloropropane	18.6	0.50	ug/L	20.00		93	76-132			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
LCS (P7J0072-BS1)				Prepared & Analyzed: 10/04/17						
1,4-Dichlorobenzene	18.4	0.50	ug/L	20.00		92	75-126			
2,2-Dichloropropane	20.8	2.0	ug/L	20.00		104	29-149			
2-Chlorotoluene	19.6	0.50	ug/L	20.00		98	74-126			
4-Chlorotoluene	19.4	0.50	ug/L	20.00		97	78-129			
4-Isopropyltoluene	19.4	0.50	ug/L	20.00		97	69-132			
Acetone	38.4	5.0	ug/L	40.00		96	40-166			
Acrolein	37.6	20	ug/L	40.00		94	70-130			
Acrylonitrile	40.3	20	ug/L	40.00		101	81-127			
Benzene	19.9	0.50	ug/L	20.00		99	77-128			
Bromobenzene	19.5	0.50	ug/L	20.00		98	78-129			
Bromochloromethane	19.9	0.50	ug/L	20.00		100	78-135			
Bromodichloromethane	21.1	0.50	ug/L	20.00		105	76-138			
Bromoform	16.4	1.0	ug/L	20.00		82	71-135			
Bromomethane	18.7	1.0	ug/L	20.00		93	41-168			
Carbon disulfide	19.7	5.0	ug/L	20.00		98	59-135			
Carbon Tetrachloride	17.9	0.50	ug/L	20.00		89	72-142			
Chlorobenzene	19.5	0.50	ug/L	20.00		98	78-119			
Chloroethane	17.4	0.50	ug/L	20.00		87	57-142			
Chloroform	20.1	0.50	ug/L	20.00		100	77-130			
Chloromethane	18.0	0.50	ug/L	20.00		90	47-145			
cis-1,2-Dichloroethylene	20.0	0.50	ug/L	20.00		100	76-141			
cis-1,3-Dichloropropylene	18.7	0.50	ug/L	20.00		93	65-140			
Dibromochloromethane	17.6	0.50	ug/L	20.00		88	75-134			
Dibromomethane	19.6	0.50	ug/L	20.00		98	76-138			
Dichlorodifluoromethane	16.0	1.0	ug/L	20.00		80	28-163			
Ethylbenzene	19.5	0.50	ug/L	20.00		97	80-127			
Hexachlorobutadiene	19.1	2.0	ug/L	20.00		95	61-134			
Isopropyl Ether	19.7	0.50	ug/L	20.00		99	60-154			
Isopropylbenzene (Cumene)	19.2	0.50	ug/L	20.00		96	70-130			
m,p-Xylenes	40.2	1.0	ug/L	40.00		101	77-133			
Methyl Butyl Ketone (2-Hexanone)	21.2	5.0	ug/L	20.00		106	64-137			
Methyl Ethyl Ketone (2-Butanone)	19.9	5.0	ug/L	20.00		100	71-134			
Methyl Isobutyl Ketone	21.4	5.0	ug/L	20.00		107	69-134			
Methylene Chloride	18.2	1.0	ug/L	20.00		91	73-131			
Methyl-tert-Butyl Ether	20.6	0.50	ug/L	20.00		103	68-135			
Naphthalene	19.6	1.0	ug/L	20.00		98	64-136			
n-Butylbenzene	20.1	1.0	ug/L	20.00		101	68-134			
n-Propylbenzene	19.2	0.50	ug/L	20.00		96	72-132			
o-Xylene	19.5	0.50	ug/L	20.00		97	78-128			
sec-Butylbenzene	19.0	0.50	ug/L	20.00		95	71-131			
Styrene	18.7	0.50	ug/L	20.00		94	78-129			
tert-Butylbenzene	18.5	0.50	ug/L	20.00		92	70-132			
Tetrachloroethylene	18.3	0.50	ug/L	20.00		92	80-129			
Toluene	20.0	0.50	ug/L	20.00		100	76-131			
trans-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		103	76-135			
trans-1,3-Dichloropropylene	18.0	0.50	ug/L	20.00		90	67-140			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
LCS (P7J0072-BS1)				Prepared & Analyzed: 10/04/17						
Trichloroethylene	19.3	0.50	ug/L	20.00		96	77-133			
Trichlorofluoromethane	17.8	0.50	ug/L	20.00		89	62-148			
Vinyl acetate	19.3	2.0	ug/L	20.00		97	34-167			
Vinyl chloride	19.4	0.50	ug/L	20.00		97	57-141			
Surrogate: 4-Bromofluorobenzene	*50.0*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.00*		*98*	*77-123*			
LCS Dup (P7J0072-BSD1)				Prepared & Analyzed: 10/04/17						
1,1,1,2-Tetrachloroethane	17.7	0.50	ug/L	20.00		89	79-134	0.8	20	
1,1,1-Trichloroethane	17.6	0.50	ug/L	20.00		88	75-136	3	20	
1,1,2,2-Tetrachloroethane	18.6	0.50	ug/L	20.00		93	62-127	1	20	
1,1,2-Trichloroethane	19.0	0.50	ug/L	20.00		95	70-140	2	20	
1,1-Dichloroethane	19.0	0.50	ug/L	20.00		95	78-130	5	20	
1,1-Dichloroethylene	17.5	0.50	ug/L	20.00		88	70-154	5	20	
1,1-Dichloropropylene	16.4	0.50	ug/L	20.00		82	71-136	6	20	
1,2,3-Trichlorobenzene	18.6	2.0	ug/L	20.00		93	58-144	2	20	
1,2,3-Trichloropropane	19.4	1.0	ug/L	20.00		97	71-127	3	20	
1,2,4-Trichlorobenzene	18.7	1.0	ug/L	20.00		93	66-139	3	20	
1,2,4-Trimethylbenzene	19.5	0.50	ug/L	20.00		98	75-133	2	20	
1,2-Dibromo-3-chloropropane	17.6	2.0	ug/L	20.00		88	63-134	1	20	
1,2-Dibromoethane	21.3	0.50	ug/L	20.00		106	77-135	1	20	
1,2-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	78-128	0.2	20	
1,2-Dichloroethane	19.1	0.50	ug/L	20.00		96	68-131	3	20	
1,2-Dichloropropane	18.5	0.50	ug/L	20.00		92	77-130	5	20	
1,3,5-Trimethylbenzene	19.2	0.50	ug/L	20.00		96	75-131	3	20	
1,3-Dichlorobenzene	19.0	0.50	ug/L	20.00		95	77-125	0.7	20	
1,3-Dichloropropane	18.8	0.50	ug/L	20.00		94	76-132	1	20	
1,4-Dichlorobenzene	18.4	0.50	ug/L	20.00		92	75-126	0.2	20	
2,2-Dichloropropane	19.8	2.0	ug/L	20.00		99	29-149	5	20	
2-Chlorotoluene	19.2	0.50	ug/L	20.00		96	74-126	2	20	
4-Chlorotoluene	19.1	0.50	ug/L	20.00		95	78-129	1	20	
4-Isopropyltoluene	18.9	0.50	ug/L	20.00		94	69-132	3	20	
Acetone	38.1	5.0	ug/L	40.00		95	40-166	0.9	20	
Acrolein	38.4	20	ug/L	40.00		96	70-130	2	20	
Acrylonitrile	39.8	20	ug/L	40.00		99	81-127	1	20	
Benzene	19.1	0.50	ug/L	20.00		95	77-128	4	20	
Bromobenzene	19.4	0.50	ug/L	20.00		97	78-129	0.6	20	
Bromochloromethane	19.8	0.50	ug/L	20.00		99	78-135	0.6	20	
Bromodichloromethane	20.2	0.50	ug/L	20.00		101	76-138	4	20	
Bromoform	16.5	1.0	ug/L	20.00		83	71-135	1	20	
Bromomethane	17.5	1.0	ug/L	20.00		88	41-168	6	20	
Carbon disulfide	18.5	5.0	ug/L	20.00		92	59-135	6	20	
Carbon Tetrachloride	17.2	0.50	ug/L	20.00		86	72-142	4	20	
Chlorobenzene	19.2	0.50	ug/L	20.00		96	78-119	2	20	
Chloroethane	16.0	0.50	ug/L	20.00		80	57-142	8	20	
Chloroform	19.1	0.50	ug/L	20.00		95	77-130	5	20	

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Hart & Hickman (Charlotte)
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0072 - 5030B										
LCS Dup (P7J0072-BSD1)				Prepared & Analyzed: 10/04/17						
Chloromethane	17.2	0.50	ug/L	20.00		86	47-145	4	20	
cis-1,2-Dichloroethylene	19.1	0.50	ug/L	20.00		95	76-141	5	20	
cis-1,3-Dichloropropylene	18.3	0.50	ug/L	20.00		92	65-140	2	20	
Dibromochloromethane	17.7	0.50	ug/L	20.00		89	75-134	0.7	20	
Dibromomethane	19.1	0.50	ug/L	20.00		96	76-138	2	20	
Dichlorodifluoromethane	15.4	1.0	ug/L	20.00		77	28-163	3	20	
Ethylbenzene	19.3	0.50	ug/L	20.00		96	80-127	1	20	
Hexachlorobutadiene	18.8	2.0	ug/L	20.00		94	61-134	1	20	
Isopropyl Ether	19.0	0.50	ug/L	20.00		95	60-154	4	20	
Isopropylbenzene (Cumene)	19.0	0.50	ug/L	20.00		95	70-130	1	20	
m,p-Xylenes	39.8	1.0	ug/L	40.00		99	77-133	1	20	
Methyl Butyl Ketone (2-Hexanone)	21.2	5.0	ug/L	20.00		106	64-137	0.3	20	
Methyl Ethyl Ketone (2-Butanone)	18.3	5.0	ug/L	20.00		92	71-134	8	20	
Methyl Isobutyl Ketone	21.1	5.0	ug/L	20.00		105	69-134	1	20	
Methylene Chloride	17.6	1.0	ug/L	20.00		88	73-131	3	20	
Methyl-tert-Butyl Ether	20.4	0.50	ug/L	20.00		102	68-135	1	20	
Naphthalene	19.3	1.0	ug/L	20.00		97	64-136	1	20	
n-Butylbenzene	19.1	1.0	ug/L	20.00		96	68-134	5	20	
n-Propylbenzene	18.7	0.50	ug/L	20.00		93	72-132	3	20	
o-Xylene	19.2	0.50	ug/L	20.00		96	78-128	1	20	
sec-Butylbenzene	18.6	0.50	ug/L	20.00		93	71-131	2	20	
Styrene	18.5	0.50	ug/L	20.00		92	78-129	1	20	
tert-Butylbenzene	18.2	0.50	ug/L	20.00		91	70-132	1	20	
Tetrachloroethylene	17.9	0.50	ug/L	20.00		90	80-129	2	20	
Toluene	19.0	0.50	ug/L	20.00		95	76-131	5	20	
trans-1,2-Dichloroethylene	19.5	0.50	ug/L	20.00		97	76-135	6	20	
trans-1,3-Dichloropropylene	17.4	0.50	ug/L	20.00		87	67-140	3	20	
Trichloroethylene	18.4	0.50	ug/L	20.00		92	77-133	5	20	
Trichlorofluoromethane	16.9	0.50	ug/L	20.00		84	62-148	6	20	
Vinyl acetate	18.9	2.0	ug/L	20.00		94	34-167	2	20	
Vinyl chloride	18.2	0.50	ug/L	20.00		91	57-141	6	20	
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.00*		*99*	*77-123*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
Blank (P7J0137-BLK1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
Blank (P7J0137-BLK1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*108*		*ug/L*	*100.0*		*108*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*47.1*		*ug/L*	*50.00*		*94*	*44-119*			
Surrogate: 2-Fluorophenol	*66.0*		*ug/L*	*100.0*		*66*	*19-119*			
Surrogate: Nitrobenzene-d5	*50.0*		*ug/L*	*50.00*		*100*	*44-120*			
Surrogate: Phenol-d5	*41.1*		*ug/L*	*100.0*		*41*	*11-52*			
Surrogate: Terphenyl-d14	*66.8*		*ug/L*	*50.00*		*134*	*50-134*			

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Hart & Hickman (Charlotte)
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Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS (P7J0137-BS1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	40.4	10	ug/L	100.0		40	29-126			
1,2-Dichlorobenzene	47.9	10	ug/L	100.0		48	32-111			
1,3-Dichlorobenzene	45.8	10	ug/L	100.0		46	28-110			
1,4-Dichlorobenzene	45.2	10	ug/L	100.0		45	29-112			
1-Methylnaphthalene	48.7	10	ug/L	100.0		49	41-119			
2,4,5-Trichlorophenol	65.9	10	ug/L	100.0		66	53-123			
2,4,6-Trichlorophenol	63.7	10	ug/L	100.0		64	50-125			
2,4-Dichlorophenol	51.2	10	ug/L	100.0		51	47-121			
2,4-Dimethylphenol	60.7	10	ug/L	100.0		61	31-124			
2,4-Dinitrophenol	51.6	10	ug/L	100.0		52	23-143			
2,4-Dinitrotoluene	65.6	10	ug/L	100.0		66	57-128			
2,6-Dinitrotoluene	67.1	10	ug/L	100.0		67	57-124			
2-Chloronaphthalene	58.2	10	ug/L	100.0		58	40-116			
2-Chlorophenol	60.1	10	ug/L	100.0		60	38-117			
2-Methylnaphthalene	46.9	10	ug/L	100.0		47	40-121			
2-Methylphenol	58.7	10	ug/L	100.0		59	30-117			
2-Nitroaniline	63.8	10	ug/L	100.0		64	55-127			
2-Nitrophenol	50.4	10	ug/L	100.0		50	47-123			
3,3'-Dichlorobenzidine	68.8	10	ug/L	100.0		69	27-129			
3/4-Methylphenol	46.7	10	ug/L	100.0		47	29-110			
3-Nitroaniline	68.1	10	ug/L	100.0		68	41-128			
4,6-Dinitro-2-methylphenol	58.3	10	ug/L	100.0		58	44-137			
4-Bromophenyl phenyl ether	58.7	10	ug/L	100.0		59	55-124			
4-Chloro-3-methylphenol	55.1	10	ug/L	100.0		55	52-119			
4-Chloroaniline	61.8	10	ug/L	100.0		62	33-117			
4-Chlorophenyl phenyl ether	60.4	10	ug/L	100.0		60	53-121			
4-Nitroaniline	70.0	10	ug/L	100.0		70	45-135			
4-Nitrophenol	27.4	10	ug/L	100.0		27	10-77			
Acenaphthene	61.0	10	ug/L	100.0		61	47-122			
Acenaphthylene	63.6	10	ug/L	100.0		64	41-130			
Aniline	130	10	ug/L	100.0		130	12-197			
Anthracene	66.1	10	ug/L	100.0		66	57-123			
Azobenzene	62.4	10	ug/L	100.0		62	61-116			
Benzo(a)anthracene	64.6	10	ug/L	100.0		65	58-125			
Benzo(a)pyrene	63.1	10	ug/L	100.0		63	54-128			
Benzo(b)fluoranthene	61.8	10	ug/L	100.0		62	53-131			
Benzo(g,h,i)perylene	62.6	10	ug/L	100.0		63	50-134			
Benzo(k)fluoranthene	64.0	10	ug/L	100.0		64	57-129			
Benzoic Acid	15.3	100	ug/L	100.0		15	10-125			
Benzyl alcohol	56.9	10	ug/L	100.0		57	31-112			
bis(2-Chloroethoxy)methane	50.8	10	ug/L	100.0		51	48-120			
Bis(2-Chloroethyl)ether	56.9	10	ug/L	100.0		57	43-118			
Bis(2-chloroisopropyl)ether	57.3	10	ug/L	100.0		57	37-130			
Bis(2-Ethylhexyl)phthalate	67.6	10	ug/L	100.0		68	55-135			
Butyl benzyl phthalate	66.8	10	ug/L	100.0		67	53-134			
Chrysene	70.9	10	ug/L	100.0		71	59-123			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS (P7J0137-BS1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	76.0	10	ug/L	100.0		76	51-134			
Dibenzofuran	63.0	10	ug/L	100.0		63	53-118			
Diethyl phthalate	64.0	10	ug/L	100.0		64	56-125			
Dimethyl phthalate	64.2	10	ug/L	100.0		64	45-127			
Di-n-butyl phthalate	65.6	10	ug/L	100.0		66	59-127			
Di-n-octyl phthalate	64.5	10	ug/L	100.0		64	51-140			
Fluoranthene	64.8	10	ug/L	100.0		65	57-128			
Fluorene	62.3	10	ug/L	100.0		62	52-124			
Hexachlorobenzene	62.2	10	ug/L	100.0		62	53-125			
Hexachlorobutadiene	38.3	10	ug/L	100.0		38	22-124			
Hexachlorocyclopentadiene	41.3	10	ug/L	100.0		41	32-117			
Hexachloroethane	41.1	10	ug/L	100.0		41	21-115			
Indeno(1,2,3-cd)pyrene	58.8	10	ug/L	100.0		59	52-134			
Isophorone	56.6	10	ug/L	100.0		57	42-124			
Naphthalene	47.8	10	ug/L	100.0		48	40-121			
Nitrobenzene	46.8	10	ug/L	100.0		47	45-121			
N-Nitroso-di-n-propylamine	64.7	10	ug/L	100.0		65	49-119			
N-Nitrosodiphenylamine	78.8	10	ug/L	100.0		79	51-123			
Pentachlorophenol	68.2	10	ug/L	100.0		68	35-138			
Phenanthrene	65.1	10	ug/L	100.0		65	59-120			
Phenol	25.5	10	ug/L	100.0		26	12-58			
Pyrene	65.8	10	ug/L	100.0		66	57-126			
Surrogate: 2,4,6-Tribromophenol	*142*		*ug/L*	*200.0*		*71*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*61.1*		*ug/L*	*100.0*		*61*	*44-119*			
Surrogate: 2-Fluorophenol	*84.1*		*ug/L*	*200.0*		*42*	*19-119*			
Surrogate: Nitrobenzene-d5	*53.8*		*ug/L*	*100.0*		*54*	*44-120*			
Surrogate: Phenol-d5	*52.8*		*ug/L*	*200.0*		*26*	*11-52*			
Surrogate: Terphenyl-d14	*77.2*		*ug/L*	*100.0*		*77*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS Dup (P7J0137-BSD1)				Prepared & Analyzed: 10/09/17						
1,2,4-Trichlorobenzene	37.7	10	ug/L	100.0		38	29-126	7	20	
1,2-Dichlorobenzene	43.4	10	ug/L	100.0		43	32-111	10	20	
1,3-Dichlorobenzene	41.6	10	ug/L	100.0		42	28-110	10	20	
1,4-Dichlorobenzene	41.3	10	ug/L	100.0		41	29-112	9	20	
1-Methylnaphthalene	45.4	10	ug/L	100.0		45	41-119	7	20	
2,4,5-Trichlorophenol	63.3	10	ug/L	100.0		63	53-123	4	20	
2,4,6-Trichlorophenol	60.3	10	ug/L	100.0		60	50-125	6	20	
2,4-Dichlorophenol	49.0	10	ug/L	100.0		49	47-121	4	20	
2,4-Dimethylphenol	56.8	10	ug/L	100.0		57	31-124	7	20	
2,4-Dinitrophenol	50.9	10	ug/L	100.0		51	23-143	1	20	
2,4-Dinitrotoluene	63.6	10	ug/L	100.0		64	57-128	3	20	
2,6-Dinitrotoluene	64.1	10	ug/L	100.0		64	57-124	5	20	
2-Chloronaphthalene	54.1	10	ug/L	100.0		54	40-116	7	20	
2-Chlorophenol	56.0	10	ug/L	100.0		56	38-117	7	20	
2-Methylnaphthalene	43.5	10	ug/L	100.0		44	40-121	8	20	
2-Methylphenol	54.2	10	ug/L	100.0		54	30-117	8	20	
2-Nitroaniline	63.0	10	ug/L	100.0		63	55-127	1	20	
2-Nitrophenol	47.7	10	ug/L	100.0		48	47-123	6	20	
3,3'-Dichlorobenzidine	69.3	10	ug/L	100.0		69	27-129	0.8	20	
3/4-Methylphenol	43.9	10	ug/L	100.0		44	29-110	6	20	
3-Nitroaniline	66.2	10	ug/L	100.0		66	41-128	3	20	
4,6-Dinitro-2-methylphenol	57.8	10	ug/L	100.0		58	44-137	0.9	20	
4-Bromophenyl phenyl ether	58.0	10	ug/L	100.0		58	55-124	1	20	
4-Chloro-3-methylphenol	51.9	10	ug/L	100.0		52	52-119	6	20	L2
4-Chloroaniline	60.9	10	ug/L	100.0		61	33-117	2	20	
4-Chlorophenyl phenyl ether	57.1	10	ug/L	100.0		57	53-121	6	20	
4-Nitroaniline	66.6	10	ug/L	100.0		67	45-135	5	20	
4-Nitrophenol	25.9	10	ug/L	100.0		26	10-77	6	20	
Acenaphthene	57.6	10	ug/L	100.0		58	47-122	6	20	
Acenaphthylene	59.5	10	ug/L	100.0		60	41-130	7	20	
Aniline	128	10	ug/L	100.0		128	12-197	1	20	
Anthracene	65.5	10	ug/L	100.0		65	57-123	1	20	
Azobenzene	60.6	10	ug/L	100.0		61	61-116	3	20	L2
Benzo(a)anthracene	63.8	10	ug/L	100.0		64	58-125	1	20	
Benzo(a)pyrene	60.8	10	ug/L	100.0		61	54-128	4	20	
Benzo(b)fluoranthene	60.1	10	ug/L	100.0		60	53-131	3	20	
Benzo(g,h,i)perylene	61.0	10	ug/L	100.0		61	50-134	3	20	
Benzo(k)fluoranthene	62.1	10	ug/L	100.0		62	57-129	3	20	
Benzoic Acid	6.32	100	ug/L	100.0		6	10-125	83	20	D, L2
Benzyl alcohol	53.0	10	ug/L	100.0		53	31-112	7	20	
bis(2-Chloroethoxy)methane	47.7	10	ug/L	100.0		48	48-120	6	20	L2
Bis(2-Chloroethyl)ether	53.8	10	ug/L	100.0		54	43-118	6	20	
Bis(2-chloroisopropyl)ether	52.8	10	ug/L	100.0		53	37-130	8	20	
Bis(2-Ethylhexyl)phthalate	66.7	10	ug/L	100.0		67	55-135	1	20	
Butyl benzyl phthalate	65.6	10	ug/L	100.0		66	53-134	2	20	
Chrysene	66.7	10	ug/L	100.0		67	59-123	6	20	

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Hart & Hickman (Charlotte)
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0137 - 3510C MS										
LCS Dup (P7J0137-BSD1)				Prepared & Analyzed: 10/09/17						
Dibenzo(a,h)anthracene	39.4	10	ug/L	100.0		39	51-134	63	20	D, L2
Dibenzofuran	59.9	10	ug/L	100.0		60	53-118	5	20	
Diethyl phthalate	62.0	10	ug/L	100.0		62	56-125	3	20	
Dimethyl phthalate	62.2	10	ug/L	100.0		62	45-127	3	20	
Di-n-butyl phthalate	65.4	10	ug/L	100.0		65	59-127	0.4	20	
Di-n-octyl phthalate	62.8	10	ug/L	100.0		63	51-140	3	20	
Fluoranthene	64.0	10	ug/L	100.0		64	57-128	1	20	
Fluorene	59.9	10	ug/L	100.0		60	52-124	4	20	
Hexachlorobenzene	62.3	10	ug/L	100.0		62	53-125	0.2	20	
Hexachlorobutadiene	34.2	10	ug/L	100.0		34	22-124	11	20	
Hexachlorocyclopentadiene	39.3	10	ug/L	100.0		39	32-117	5	20	
Hexachloroethane	36.3	10	ug/L	100.0		36	21-115	12	20	
Indeno(1,2,3-cd)pyrene	65.7	10	ug/L	100.0		66	52-134	11	20	
Isophorone	53.0	10	ug/L	100.0		53	42-124	7	20	
Naphthalene	44.8	10	ug/L	100.0		45	40-121	7	20	
Nitrobenzene	44.5	10	ug/L	100.0		45	45-121	5	20	L2
N-Nitroso-di-n-propylamine	58.6	10	ug/L	100.0		59	49-119	10	20	
N-Nitrosodiphenylamine	77.2	10	ug/L	100.0		77	51-123	2	20	
Pentachlorophenol	67.5	10	ug/L	100.0		68	35-138	1	20	
Phenanthrene	64.9	10	ug/L	100.0		65	59-120	0.3	20	
Phenol	24.2	10	ug/L	100.0		24	12-58	6	20	
Pyrene	65.9	10	ug/L	100.0		66	57-126	0.1	20	
Surrogate: 2,4,6-Tribromophenol	*132*		*ug/L*	*200.0*		*66*	*43-140*			
Surrogate: 2-Fluorobiphenyl	*55.2*		*ug/L*	*100.0*		*55*	*44-119*			
Surrogate: 2-Fluorophenol	*75.2*		*ug/L*	*200.0*		*38*	*19-119*			
Surrogate: Nitrobenzene-d5	*47.7*		*ug/L*	*100.0*		*48*	*44-120*			
Surrogate: Phenol-d5	*47.3*		*ug/L*	*200.0*		*24*	*11-52*			
Surrogate: Terphenyl-d14	*73.2*		*ug/L*	*100.0*		*73*	*50-134*			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0059 - 3010A										
Blank (P7J0059-BLK1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0059-BS1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.243	0.010	mg/L	0.2500		97	80-120			
Barium	0.253	0.010	mg/L	0.2500		101	80-120			
Cadmium	0.246	0.0010	mg/L	0.2500		98	80-120			
Chromium	0.244	0.0050	mg/L	0.2500		98	80-120			
Lead	0.248	0.0050	mg/L	0.2500		99	80-120			
Selenium	0.236	0.020	mg/L	0.2500		94	80-120			
Silver	0.100	0.0050	mg/L	0.1000		100	80-120			
Matrix Spike (P7J0059-MS1)		**Source: 7100022-01**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.251	0.010	mg/L	0.2500	BRL	100	75-125			
Barium	0.312	0.010	mg/L	0.2500	0.0573	102	75-125			
Cadmium	0.246	0.0010	mg/L	0.2500	BRL	98	75-125			
Chromium	0.247	0.0050	mg/L	0.2500	BRL	99	75-125			
Lead	0.250	0.0050	mg/L	0.2500	0.00175	99	75-125			
Selenium	0.243	0.020	mg/L	0.2500	BRL	97	75-125			
Silver	0.102	0.0050	mg/L	0.1000	BRL	102	75-125			
Matrix Spike Dup (P7J0059-MSD1)		**Source: 7100022-01**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.253	0.010	mg/L	0.2500	BRL	101	75-125	1	20	
Barium	0.316	0.010	mg/L	0.2500	0.0573	104	75-125	1	20	
Cadmium	0.249	0.0010	mg/L	0.2500	BRL	100	75-125	1	20	
Chromium	0.250	0.0050	mg/L	0.2500	BRL	100	75-125	1	20	
Lead	0.253	0.0050	mg/L	0.2500	0.00175	100	75-125	1	20	
Selenium	0.245	0.020	mg/L	0.2500	BRL	98	75-125	0.9	20	
Silver	0.103	0.0050	mg/L	0.1000	BRL	103	75-125	1	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
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Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0149 - 7470A										
Blank (P7J0149-BLK1)				Prepared & Analyzed: 10/10/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0149-BS1)				Prepared & Analyzed: 10/10/17						
Mercury	0.00894	0.00020	mg/L	0.009375		95	80-120			
Matrix Spike (P7J0149-MS1)		**Source: 7100022-01**		Prepared & Analyzed: 10/10/17						
Mercury	0.00907	0.00020	mg/L	0.009375	BRL	97	80-120			
Matrix Spike Dup (P7J0149-MSD1)		**Source: 7100022-01**		Prepared & Analyzed: 10/10/17						
Mercury	0.00898	0.00020	mg/L	0.009375	BRL	96	80-120	1	20	

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Hart & Hickman (Charlotte)
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2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0065 - 3010A										
Blank (P7J0065-BLK1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	BRL	0.010	mg/L							
Barium	BRL	0.010	mg/L							
Cadmium	BRL	0.0010	mg/L							
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
Selenium	BRL	0.020	mg/L							
Silver	BRL	0.0050	mg/L							
LCS (P7J0065-BS1)				Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.258	0.010	mg/L	0.2500		103	80-120			
Barium	0.252	0.010	mg/L	0.2500		101	80-120			
Cadmium	0.259	0.0010	mg/L	0.2500		104	80-120			
Chromium	0.247	0.0050	mg/L	0.2500		99	80-120			
Lead	0.252	0.0050	mg/L	0.2500		101	80-120			
Selenium	0.283	0.020	mg/L	0.2500		113	80-120			
Silver	0.103	0.0050	mg/L	0.1000		103	80-120			
Matrix Spike (P7J0065-MS1)		**Source: 7100022-02**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.256	0.010	mg/L	0.2500	BRL	102	75-125			
Barium	0.330	0.010	mg/L	0.2500	0.0810	100	75-125			
Cadmium	0.250	0.0010	mg/L	0.2500	BRL	100	75-125			
Chromium	0.243	0.0050	mg/L	0.2500	0.00296	96	75-125			
Lead	0.249	0.0050	mg/L	0.2500	0.00134	99	75-125			
Selenium	0.275	0.020	mg/L	0.2500	BRL	110	75-125			
Silver	0.0585	0.0050	mg/L	0.1000	BRL	59	75-125			M
Matrix Spike Dup (P7J0065-MSD1)		**Source: 7100022-02**		Prepared: 10/04/17		Analyzed: 10/05/17				
Arsenic	0.257	0.010	mg/L	0.2500	BRL	103	75-125	0.6	20	
Barium	0.329	0.010	mg/L	0.2500	0.0810	99	75-125	0.4	20	
Cadmium	0.249	0.0010	mg/L	0.2500	BRL	99	75-125	0.4	20	
Chromium	0.243	0.0050	mg/L	0.2500	0.00296	96	75-125	0.009	20	
Lead	0.249	0.0050	mg/L	0.2500	0.00134	99	75-125	0.3	20	
Selenium	0.277	0.020	mg/L	0.2500	BRL	111	75-125	0.6	20	
Silver	0.0592	0.0050	mg/L	0.1000	BRL	59	75-125	1	20	M

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0150 - 7470A										
Blank (P7J0150-BLK1)				Prepared & Analyzed: 10/10/17						
Mercury	BRL	0.00020	mg/L							
LCS (P7J0150-BS1)				Prepared & Analyzed: 10/10/17						
Mercury	0.00900	0.00020	mg/L	0.009375		96	80-120			
Matrix Spike (P7J0150-MS1)		**Source: 7100022-03**		Prepared & Analyzed: 10/10/17						
Mercury	0.00908	0.00020	mg/L	0.009375	BRL	97	80-120			
Matrix Spike Dup (P7J0150-MSD1)		**Source: 7100022-03**		Prepared & Analyzed: 10/10/17						
Mercury	0.00923	0.00020	mg/L	0.009375	BRL	98	80-120	2	20	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0094 - NO PREP										
Blank (P7J0094-BLK1)				Prepared & Analyzed: 10/05/17						
Chloride	BRL	1.0	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P7J0094-BS1)				Prepared & Analyzed: 10/05/17						
Chloride	39.7	1.0	mg/L	40.00		99	80-120			
Sulfate	39.9	1.0	mg/L	40.00		100	80-120			
Matrix Spike (P7J0094-MS1)		**Source: 7100022-01**		Prepared & Analyzed: 10/05/17						
Chloride	67.6	1.0	mg/L	40.00	27.9	99	80-120			
Sulfate	69.6	1.0	mg/L	40.00	29.9	99	80-120			
Matrix Spike Dup (P7J0094-MSD1)		**Source: 7100022-01**		Prepared & Analyzed: 10/05/17						
Chloride	67.1	1.0	mg/L	40.00	27.9	98	80-120	0.7	15	
Sulfate	68.7	1.0	mg/L	40.00	29.9	97	80-120	1	15	

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100022
Time Submitted: 10/2/2017 4:40:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0052 - NO PREP										
LCS (P7J0052-BS1)				Prepared & Analyzed: 10/02/17						
pH	6.85		pH Units	6.880		100	98.5-101.5			

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Sample Extraction Data

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0065	50 mL	50 mL	10/04/17 10:35
7100022-02	P7J0065	50 mL	50 mL	10/04/17 10:35
7100022-03	P7J0065	50 mL	50 mL	10/04/17 10:35
7100022-04	P7J0065	50 mL	50 mL	10/04/17 10:35

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0150	20 mL	30 mL	10/10/17 8:10
7100022-02	P7J0150	20 mL	30 mL	10/10/17 8:10
7100022-03	P7J0150	20 mL	30 mL	10/10/17 8:10
7100022-04	P7J0150	20 mL	30 mL	10/10/17 8:10

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0137	970 mL	1 mL	10/09/17 11:20
7100022-02	P7J0137	1000 mL	1 mL	10/09/17 11:20
7100022-03	P7J0137	1000 mL	1 mL	10/09/17 11:20
7100022-04	P7J0137	950 mL	1 mL	10/09/17 11:20

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0059	50 mL	50 mL	10/04/17 8:25
7100022-02	P7J0059	50 mL	50 mL	10/04/17 8:25
7100022-03	P7J0059	50 mL	50 mL	10/04/17 8:25
7100022-04	P7J0059	50 mL	50 mL	10/04/17 8:25

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0149	20 mL	30 mL	10/10/17 8:10
7100022-02	P7J0149	20 mL	30 mL	10/10/17 8:10
7100022-03	P7J0149	20 mL	30 mL	10/10/17 8:10
7100022-04	P7J0149	20 mL	30 mL	10/10/17 8:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
7100022-01	P7J0072	10 mL	10 mL	10/04/17 15:21
7100022-02	P7J0072	10 mL	10 mL	10/04/17 15:21
7100022-03	P7J0072	10 mL	10 mL	10/04/17 15:21
7100022-04	P7J0072	10 mL	10 mL	10/04/17 15:21

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Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ROW.515

Project Name: Charlotte Gateway Station
Short Hold Analysis: (Yes) (No) pH UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NC DOT WBS # 44475.1.2
Address:

Client Company Name: Hart & Hickman, PC
Report To/Contact Name: Dave Graham
Reporting Address: 2923 South Tryon Street Suite 100 Charlotte NC 28203
Phone: 704.586.0007 Fax (Yes) (No):
Email Address: DGraham@harthickman.com
EDD Type: PDF X Excel X Other
Site Location Name: Charlotte Gateway Station
Site Location Physical Address: Charlotte NC

Purchase Order No./Billing Reference ROW-515
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: NCT71 Observed: 2.5 °C / Corr: 2.3 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOCs-8260	SVOCs-8270	RCRA Metals 7471	ETX 8021	Chloride 4500	Sulfate 8015	Dissolved RCRA Metals**	REMARKS	PRISM LAB ID NO.
MW-1	10/02/17	1325	WATER	VOA, A, P	8	Varies	None, HCL, HNO3	X	X	X	X	X	X	X	* pH-24 hr hold time*	01
MW-2	↓	1150	↓	↓	↓	↓	↓	X	X	X	X	X	X	X		02
MW-3	↓	1520	↓	↓	↓	↓	↓	X	X	X	X	X	X	X		03
MW-4	↓	1300	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	** Dissolved RCRA Metals were filtered in the field**	04

Sampler's Signature Kenneth J Wieland Sampled By (Print Name) Kenneth J Wieland Affiliation H&H

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Kenneth J Wieland		10/02/17	16:40
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		10/2/17	1640

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 7100022

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

Case Narrative

10/27/2017

Hart & Hickman (Charlotte)
David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515
Project No.: WBS# 44475.1.2
Lab Submittal Date: 10/19/2017
Prism Work Order: 7100355

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

10/27/2017

Prism Work Order: 7100355

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-5 (9-11)	7100355-01	Solid	10/18/17	10/19/17
MW-5 (19-21)	7100355-02	Solid	10/18/17	10/19/17
MW-5 (25-27)	7100355-03	Solid	10/18/17	10/19/17

Samples were received in good condition at 3.0 degrees C unless otherwise noted.

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Summary of Detections

10/27/2017

Prism Work Order: 7100355

Prism ID	Client ID	Parameter	Method	Result	Units
7100355-01	MW-5 (9-11)	Sulfate	*9056A	57	mg/kg dry
7100355-01	MW-5 (9-11)	pH	*9045D	6.1	pH Units
7100355-02	MW-5 (19-21)	Sulfate	*9056A	24	mg/kg dry
7100355-02	MW-5 (19-21)	pH	*9045D	6.7	pH Units
7100355-03	MW-5 (25-27)	Sulfate	*9056A	44	mg/kg dry
7100355-03	MW-5 (25-27)	pH	*9045D	7.0	pH Units

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Laboratory Report

10/27/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-5 (9-11)
Prism Sample ID: 7100355-01
Prism Work Order: 7100355
Time Collected: 10/18/17 12:40
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	13	0.65	1	*9056A	10/21/17 2:41	BMS	P7J0414
Sulfate	**57**	**mg/kg dry**	**13**	**0.97**	**1**	***9056A**	**10/21/17 2:41**	**BMS**	**P7J0414**
General Chemistry Parameters									
% Solids	**77.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/24/17 15:25**	**TJY**	**P7J0482**
pH	**6.1**	**pH Units**			**1**	***9045D**	**10/19/17 12:49**	**BMS**	**P7J0356**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

10/27/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-5 (19-21)
Prism Sample ID: 7100355-02
Prism Work Order: 7100355
Time Collected: 10/18/17 13:05
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	13	0.65	1	*9056A	10/21/17 2:57	BMS	P7J0414
Sulfate	**24**	**mg/kg dry**	**13**	**0.97**	**1**	***9056A**	**10/21/17 2:57**	**BMS**	**P7J0414**
General Chemistry Parameters									
% Solids	**77.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/24/17 15:25**	**TJY**	**P7J0482**
pH	**6.7**	**pH Units**			**1**	***9045D**	**10/19/17 12:49**	**BMS**	**P7J0356**

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Laboratory Report

10/27/2017

Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No.: WBS# 44475.1.2
Sample Matrix: Solid

Client Sample ID: MW-5 (25-27)
Prism Sample ID: 7100355-03
Prism Work Order: 7100355
Time Collected: 10/18/17 15:00
Time Submitted: 10/19/17 08:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	BRL	mg/kg dry	13	0.63	1	*9056A	10/21/17 3:13	BMS	P7J0414
Sulfate	**44**	**mg/kg dry**	**13**	**0.94**	**1**	***9056A**	**10/21/17 3:13**	**BMS**	**P7J0414**
General Chemistry Parameters									
% Solids	**79.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**10/24/17 15:25**	**TJY**	**P7J0482**
pH	**7.0**	**pH Units**			**1**	***9045D**	**10/19/17 12:49**	**BMS**	**P7J0356**

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100355
Time Submitted: 10/19/2017 8:20:00AM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0414 - Default Prep GenChem										
Blank (P7J0414-BLK1)				Prepared & Analyzed: 10/20/17						
Chloride	BRL	10	mg/kg wet							
Sulfate	BRL	10	mg/kg wet							
LCS (P7J0414-BS1)				Prepared & Analyzed: 10/20/17						
Chloride	964	10	mg/kg wet	1000		96	80-120			
Sulfate	975	10	mg/kg wet	1000		98	80-120			

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Hart & Hickman (Charlotte)
Attn: David Graham
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project: ROW-515

Project No: WBS# 44475.1.2

Prism Work Order: 7100355
Time Submitted: 10/19/2017 8:20:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7J0356 - NO PREP										
LCS (P7J0356-BS1)				Prepared & Analyzed: 10/19/17						
pH	6.89		pH Units	6.880		100	99-101			
Duplicate (P7J0356-DUP1)		**Source: 7100355-01**		Prepared & Analyzed: 10/19/17						
pH	6.08		pH Units		6.08			0	20	

Sample Extraction Data

Prep Method: Default Prep GenChem

Lab Number	Batch	Initial	Final	Date/Time
7100355-01	P7J0414	5 g	50 mL	10/21/17 2:41
7100355-02	P7J0414	5 g	50 mL	10/21/17 2:57
7100355-03	P7J0414	5 g	50 mL	10/21/17 3:13

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
7100355-01	P7J0482	30 g	30 g	10/24/17 15:25
7100355-02	P7J0482	30 g	30 g	10/24/17 15:25
7100355-03	P7J0482	30 g	30 g	10/24/17 15:25

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: RAW-515

Project Name: Charlotte Gateway Station

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: NC DOT WBS# 44475.1.2

Address:

Client Company Name: Hart & Hickman, PC

Report To/Contact Name: Dave Graham

Reporting Address: 2923 S. Tryon Street Suite 100 Charlotte NC 28203

Phone: 704.586.0007 Fax (Yes) (No):

Email Address: DGraham@hartandhickman.com

EDD Type: PDF X Excel X Other

Site Location Name: Charlotte Gateway Station

Site Location Physical Address: Charlotte, NC

Purchase Order No./Billing Reference RAW-515

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days

"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE?	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?	X		
PROPER CONTAINERS used?	X		

TEMP: Therm ID: 1R1-7 Observed: 3.5 °C / Corr: 3.0 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC___ DoD___ FL___ NC X SC___ OTHER___ N/A___

Water Chlorinated: YES___ NO___

Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: M 9045	Chloride 4500	Sulfate 9056				REMARKS	PRISM LAB ID NO.
MW-5 (9'-11')	10/18/17	12:40	SOIL	C, G	1	4oz	None	X	X	X					01
MW-5 (19'-21')	↓	13:05	↓	↓	↓	↓	↓	X	X	X					02
MW-5 (25'-27')	↓	15:00	↓	↓	↓	↓	↓	X	X	X					03

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Kenneth J. Windsand Affiliation H&H

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature] / H&H			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 10-19-17	0820

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other

COC Group No. 7100355

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

Appendix G

Certificates of Disposal and Non-Hazardous Materials Manifests

EVO CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 2 drums of non-hazardous contaminated water received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 3B 604 W. 4th Street
Charlotte, NC

EC Waste ID #: 101735

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 4 drums of non-hazardous contaminated material received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 3B 604 W. 4th Street
Charlotte, NC

EC Waste ID #: 101735

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79721

GENERATOR INFORMATION

Generator: NCDOT Parcel 3B Phone: 919-707-6859

Site Address: 604 West 4th St

City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Water

Empty Weight (lbs): Contaminant: Non-Hazardous VOCs and Barium

Net Weight (lbs):

Quantity 2 Tons Drums Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Thomas Dell Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101735

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Collins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79722

GENERATOR INFORMATION

Generator: NCDOT Parcel 3B Phone: 919-707-6859
Site Address: 604 West 4th St
City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Soil
Empty Weight (lbs): Contaminant: Metals
Net Weight (lbs):

Quantity 64 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101735

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Collins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1 drum of non-hazardous contaminated water received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 24A - Corner of W. 6th Street & N. Smith Street
Charlotte, NC

EC Waste ID #: 101734

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79720

GENERATOR INFORMATION

Generator: NCDOT Parcel 24A Phone: 919-707-6859

Site Address: Corner of W 6th St and N Smith St

City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Water

Empty Weight (lbs): Contaminant: Non-Hazardous VOCs and Barium

Net Weight (lbs):

Quantity 1 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101734

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [signature] Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 2 drums of non-hazardous contaminated material received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 25A - N. of W. Martin Luther King Jr. Blvd. Charlotte, NC

EC Waste ID #: 101733

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79719

GENERATOR INFORMATION

Generator: NCDOT Parcel 25A Phone: 919-707-6859
Site Address: N of W Martin Luther King Jr. Blvd (Railroad)
City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Soil
Empty Weight (lbs): Contaminant: Metals
Net Weight (lbs):

Quantity 2 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101733

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Cullins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 2 drums of non-hazardous contaminated water received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 14 - 600 W. Trade Street
Charlotte, NC

EC Waste ID #: 101732

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Signature

Thomas W. Hammett
CEO
Evo Corporation

CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 4 drums of non-hazardous contaminated material received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 14 - 600 W. Trade Street
Charlotte, NC

EC Waste ID #: 101732

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Thomas W. Hammett

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79718

GENERATOR INFORMATION

Generator: NCDOT Parcel 14 Phone: 919-707-6859

Site Address: 600 West Trade St

City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Water

Empty Weight (lbs): Contaminant: Non-Hazardous VOCs & Barium

Net Weight (lbs):

Quantity 2 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101732

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Collins Date: 10-8-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79717

GENERATOR INFORMATION

Generator: NCDOT Parcel 14 Phone: 919-707-6859

Site Address: 600 West Trade St

City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Soil

Empty Weight (lbs): Contaminant: Metals

Net Weight (lbs):

Quantity 4 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [illegible] Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101732

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shuquan Collins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 1 drum of non-hazardous plastic received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 12 - W. 5th Street
Charlotte, NC

EC Waste ID #: 101731

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 2 drums of non-hazardous contaminated water received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 12 - W. 5th Street
Charlotte, NC

EC Waste ID #: 101731

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Signature

Thomas W. Hammett
CEO
Evo Corporation

CORPORATION

1703 Vargrave Street
Winston-Salem, NC 27107
ph 336-725-5844
fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 4 drums of non-hazardous contaminated material received on 10/31/2017 from:

Generator: NC Department of Transportation

Originating at: NC DOT Parcel 12 - W. 5th Street
Charlotte, NC

EC Waste ID #: 101731

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environmental Quality.

Signature

Thomas W. Hammett
CEO
Evo Corporation

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79716

GENERATOR INFORMATION

Generator: NCDOT Parcel 12 Phone: 919-707-6859
Site Address: West 5th St
City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Soil
Empty Weight (lbs): Contaminant: Metals
Net Weight (lbs):

Quantity 4 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Thomas Hilton Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101731

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Collins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79715

GENERATOR INFORMATION

Generator: NCDOT Parcel 12 Phone: 919-707-6859
Site Address: West 5th St
City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Water
Empty Weight (lbs): Contaminant: Non-Hazardous VOCs & Barium
Net Weight (lbs):

Quantity 2 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844
Truck #: 2 / 5 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101731

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Collins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 79714

GENERATOR INFORMATION

Generator: NCDOT Parcel 12 Phone: 919-707-6859

Site Address: West 5th St

City/State: Charlotte NC Contact: Gordon Box

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Plastic

Empty Weight (lbs): Contaminant: Non-Hazardous VOCs & Metals

Net Weight (lbs):

Quantity 1 Tons (Drums) Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 215 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature] Date: 10-31-17

FACILITY INFORMATION

Evo Project #: 101731

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Shaquan Collins Date: 10-31-17

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008