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# REPORT OF ADDITIONAL ASSESSMENT ACTIVITIES – NOV 2012

## FIBER DYNAMICS, INC.
## 200 SOUTH WEST POINT AVENUE
## HIGH POINT, GUILFORD COUNTY, NORTH CAROLINA
## SITE ID# NON CD0002854

Prepared for:

**Fiber Dynamics, Inc.**
**200 South West Point Avenue**
**High Point, North Carolina 27261**

Prepared by:

**Blue Ridge Geological Services, Inc.**
**Archdale, North Carolina**

**January 2013**

BLUE RIDGE
GEOLOGICAL SERVICES, INC.

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January 2013

Ms. Sharon Cihak
Guilford County Department of Public Health
Environmental Health Division
400 West Market Street, Suite 300
Greensboro, North Carolina 27401

**Subject:** **Report of Additional Assessment Activities – November 2012**
**Fiber Dynamics, Inc.**
**200 South West Point Avenue**
**High Point, Guilford County, North Carolina**
**Site ID #NON CD 0002854**

Dear Ms. Cihak:

On behalf of Fiber Dynamics, Inc., ***Blue Ridge Geological Services, Inc. (Blue Ridge)*** performed additional environmental activities at the subject site in November 2012 (Figure 1). Outlined below is a summary of the field activities, laboratory results, and our conclusions and recommendations.

Field Activities

On November 6, 2012 Blue Ridge personnel submitted an application to the Guilford County Department of Public Health (GCDPH) to install four monitoring wells on properties east of the subject site. On November 9, 2012 the GCDPH issued a well permit application for the well installations. On November 13 and 16, 2012 Probe Technology drilled four borings to auger refusal and/or at or near bedrock at depths of approximately 18 to 25 feet below ground surface using a track mounted Geoprobe. Field personnel installed wells MW-7 through MW-10 in the boreholes. The locations of the new wells are shown on Figure 2. The purpose of the well installations was to further define the horizontal downgradient extent of impacted groundwater in the area. The wells were installed as shallow Type II wells with two-inch diameter PVC with ten feet of open screened interval. Copies of the well construction record forms are attached. The ground surface and top of casing elevations in each of the new monitoring wells were measured by a Registered Professional Land Surveyor.

On November 26, 2012 Blue Ridge personnel measured the depth to groundwater in all site monitoring wells using an electronic water level meter. On this date, the depth to water in the wells ranged from 1.77 (MW-1) to 14.62 (MW-7) feet below the top of the PVC well casing. A summary of the measurements is presented in Table 1. The groundwater elevations at each well were determined by subtracting the depth to water from the elevation of the top of the PVC casing in each well. The groundwater elevations for each well were plotted on a map and elevations were interpolated between wells by comparing the groundwater elevations at those locations considering the local and regional topography. A groundwater contour or potentiometric surface map of the surficial aquifer on November 26, 2012 is presented on Figure 2. As shown on the figure, the generalized direction of groundwater flow at the site is to the southeast.

On November 16, 2012, Blue Ridge personnel collected groundwater samples from the four new monitoring wells. The wells were sampled using a low-flow pump and disposable polyethylene tubing lowered to near the bottom of each well. The wells were sampled from most downgradient towards the subject site and field equipment was decontaminated between wells to minimize the possibility of cross contamination. A blind duplicate sample was collected from well MW-9 for quality control / quality assurance purposes.

Prior to sampling, field personnel recorded select water quality parameters (pH, temperature, and specific conductivity) in each well using a field meter. Next, field personnel collected groundwater samples from each well, placed the samples in laboratory-prepared containers (some with preservatives), labeled the containers with project information, placed the samples into coolers containing ice, and transported the samples to Pace Analytical Services, Inc. in Huntersville, North Carolina for analysis. A chain of custody form was submitted with the samples. All groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260.

Laboratory Results

No VOCs were detected in the groundwater in the four new monitoring wells MW-7 through MW-10. The groundwater analytical results for this sampling event (as well as other sampling events) are summarized in Table 2. The laboratory report and chain-of-custody record are attached. Isoconcentration maps of PCE, TCE, and total VOCs in the surficial aquifer in November 2012 are presented on Figures 3 through 5.

Conclusions and Recommendations

The depth to groundwater ranged from approximately one to 14 feet below ground surface in the monitoring wells in November 2012. These water levels are similar to previous measurements at the site. The generalized direction of groundwater flow at the site in November 2012 is to the east and southeast which is similar to previous sampling events.

No VOCs were detected in the new monitoring wells (MW-7 through MW-10). As shown on Figures 3 through 5, the horizontal extent of VOCs detected in the groundwater is reasonably defined and the plume is located on-site. The plume shape/size was similar to previous sampling events and it does not appear that the plume is migrating.

We recommend continued periodic groundwater sampling of select monitoring wells to monitor the VOC concentrations and plume degradation and/or migration. Please contact the undersigned if you have any questions regarding this report or the project.

Sincerely,

NORTH CAROLINA LICENSED SEAL 1141 GEOLOGIST JEFFREY L. GERLOCK

Jeffrey L. Gerlock, L.G.
NC Licensed Geologist #1141
Registered Environmental Consultant #149

Attachments –Tables, Figures, Well Construction Records, Laboratory Report

cc: Mr. Jim Heery, Fiber Dynamics

# TABLES

TABLE 1

MONITORING WELL CONSTRUCTION INFORMATION AND GROUNDWATER ELEVATION DATA

FIBER DYNAMICS, INC.
200 SOUTH WEST POINT AVENUE
HIGH POINT, NORTH CAROLINA
SITE ID# NONCD 0002854

| Well No. | Date Installed | Ground Elevation (ft, btoc) | Screened Interval (ft, bgs) | Total Well Depth (ft, bgs) | Date Water Level Measured | TOC Elevation (ft, btoc) | Depth to Water (ft, btoc) | Groundwater Elevation (ft, btoc) |
|---|---|---|---|---|---|---|---|---|
| MW-1 | 11/4/2009 | 893.12 | 11 to 16 | 16.0 | 11/9/2009 | 892.74 | 1.58 | 891.16 |
| | | | | | 11/17/2009 | | 1.18 | 891.56 |
| | | | | | 11/24/2009 | | 1.12 | 891.62 |
| | | | | | 10/31/2011 | | 1.51 | 891.23 |
| | | | | | 1/31/2012 | | 0.95 | 891.79 |
| | | | | | 6/6/2012 | | 1.30 | 891.44 |
| | | | | | 8/23/2012 | | 1.40 | 891.34 |
| | | | | | 11/26/2012 | | 1.77 | 890.97 |
| MW-2 | 11/4/2009 | 888.71 | 14 to 19 | 19.0 | 11/4/2009 | 888.42 | 6.17 | 882.25 |
| | | | | | 11/9/2009 | | 6.17 | 882.25 |
| | | | | | 11/17/2009 | | 5.73 | 882.69 |
| | | | | | 11/24/2009 | | 5.49 | 882.93 |
| | | | | | 10/31/2011 | | 6.18 | 882.24 |
| | | | | | 1/31/2012 | | 5.39 | 883.03 |
| | | | | | 6/6/2012 | | 5.53 | 882.89 |
| | | | | | 8/23/2012 | | 5.60 | 882.82 |
| | | | | | 11/26/2012 | | 5.87 | 882.55 |
| MW-3 | 11/4/2009 | 887.13 | 16 to 21 | 21.0 | 11/4/2009 | 886.51 | 4.29 | 882.22 |
| | | | | | 11/9/2009 | | 4.28 | 882.23 |
| | | | | | 11/17/2009 | | 3.87 | 882.64 |
| | | | | | 11/24/2009 | | 3.64 | 882.87 |
| | | | | | 10/31/2011 | | 4.29 | 882.22 |
| | | | | | 1/31/2012 | | 3.62 | 882.89 |
| | | | | | 6/6/2012 | | 4.80 | 881.71 |
| | | | | | 8/23/2012 | | 3.74 | 882.77 |
| | | | | | 11/26/2012 | | 4.00 | 882.51 |
| MW-4 | 11/5/2009 | 888.43 | 9 to 14 | 14.0 | 11/9/2009 | 888.15 | 4.60 | 883.55 |
| | | | | | 11/17/2009 | | 4.27 | 883.88 |
| | | | | | 11/24/2009 | | 4.05 | 884.10 |
| | | | | | 10/31/2011 | | 4.50 | 883.65 |
| | | | | | 1/31/2012 | | 2.49 | 885.66 |
| | | | | | 6/6/2012 | | 4.00 | 884.15 |
| | | | | | 8/23/2012 | | 3.91 | 884.24 |
| | | | | | 11/26/2012 | | 4.06 | 884.09 |
| MW-5 | 11/5/2009 | 890.38 | 9 to 14 | 14.0 | 11/9/2009 | 890.01 | 8.96 | 881.05 |
| | | | | | 11/17/2009 | | 6.15 | 883.86 |
| | | | | | 11/24/2009 | | 2.25 | 887.76 |
| | | | | | 10/31/2011 | | 4.21 | 885.80 |
| | | | | | 1/31/2012 | | 3.64 | 886.37 |
| | | | | | 6/6/2012 | | 3.37 | 886.64 |
| | | | | | 8/23/2012 | | 3.61 | 886.40 |
| | | | | | 11/26/2012 | | 3.67 | 886.34 |
| MW-6 | 11/5/2009 | 888.90 | 13 to 18 | 18.0 | 11/4/2009 | 888.48 | 3.97 | 884.51 |
| | | | | | 11/9/2009 | | 3.94 | 884.54 |
| | | | | | 11/17/2009 | | 3.57 | 884.91 |
| | | | | | 11/24/2009 | | 3.34 | 885.14 |
| | | | | | 10/31/2011 | | 3.91 | 884.57 |
| | | | | | 1/31/2012 | | 3.74 | 884.74 |

TABLE 1

MONITORING WELL CONSTRUCTION INFORMATION AND GROUNDWATER ELEVATION DATA

FIBER DYNAMICS, INC.
200 SOUTH WEST POINT AVENUE
HIGH POINT, NORTH CAROLINA
SITE ID# NONCD 0002854

| Well No. | Date Installed | Ground Elevation (ft, btoc) | Screened Interval (ft, bgs) | Total Well Depth (ft, bgs) | Date Water Level Measured | TOC Elevation (ft, btoc) | Depth to Water (ft, btoc) | Groundwater Elevation (ft, btoc) |
|---|---|---|---|---|---|---|---|---|
| | | | | | 6/6/2012 | | 3.18 | 885.30 |
| | | | | | 8/23/2012 | | 3.75 | 884.73 |
| | | | | | 11/26/2012 | | 3.56 | 884.92 |
| MW-7 | 11/13/2012 | 895.97 | 15 to 25 | 25.0 | 11/16/2012 | 895.27 | 14.53 | 880.74 |
| | | | | | 11/26/2012 | | 14.62 | 880.65 |
| MW-8 | 11/13/2012 | 882.60 | 10 to 20 | 20.0 | 11/16/2012 | 882.29 | 6.26 | 876.03 |
| | | | | | 11/26/2012 | | 6.12 | 876.17 |
| MW-9 | 11/13/2012 | 881.55 | 8 to 18 | 18.0 | 11/16/2012 | 881.09 | 4.30 | 876.79 |
| | | | | | 11/26/2012 | | 4.40 | 876.69 |
| MW-10 | 11/16/2012 | 888.15 | 15 to 25 | 25.0 | 11/16/2012 | 887.78 | 12.68 | 875.10 |
| | | | | | 11/26/2012 | | 10.74 | 877.04 |
| DW-1 | 2/9/2010 | 888.54 | 50 to 55 | 55.0 | 2/9/2010 | NS | 3.60 | NS |
| | | | | | 10/31/2011 | | 4.70 | NS |
| | | | | | 1/31/2012 | | 3.93 | NS |
| | | | | | 6/6/2012 | | 4.05 | NS |
| | | | | | 8/23/2012 | | 4.03 | NS |

Notes:

Measurements are in feet below ground surface (bgs) or below the top of the PVC well casing (btoc).

Groundwater levels were measured using a Heron water level meter.

Elevations are feet above the 1988 North American Vertical Datum (NAVD) and are referenced from a nearby vertical control monument by Triad Land Surveying

NS - Not Surveyed

**TABLE 2**

**SUMMARY OF GROUNDWATER SAMPLING RESULTS**

**FIBER DYNAMICS, INC.**
**200 SOUTH WEST POINT AVENUE**
**HIGH POINT, NORTH CAROLINA**
**SITE ID# NONCD 0002854**

| Well No. | Date Sampled | Volatile Organic Compounds (VOCs) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Acetone | Benzene | 2-Butanone (MEK) | Chlorobenzene | Chloroethane | 1,2-Dichlorobenzene | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | p-Isopropyltoluene | 4-Methyl-2-pentanone (MIBK) | Tetrachloroethene (PCE) | Toluene | Trichloroethene (TCE) | Trichlorofluoromethane | Vinyl chloride | **Total VOCs** | VOC TICs |
| MW-1 | 11/4/2009 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND |
| | 10/31/2011 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <0.62 | ND | ND |
| | 1/31/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND |
| | 6/6/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND |
| | 8/23/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND |
| MW-2 | 11/4/2009 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **2.7** | ND | ND | ND | <1 | 2.70 | ND |
| | 10/31/2011 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <0.46 | ND | ND | ND | <0.62 | ND | ND |
| | 1/31/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND | ND | <1 | ND | ND |
| | 6/6/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND | ND | <1 | ND | ND |
| | 8/23/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1 | ND | ND | ND | <1 | ND | ND |
| MW-3 | 11/4/2009 | ND | ND | ND | 1.3 | ND | 1.3 | ND | ND | <1 | 1.3 | ND | ND | ND | **36.5** | ND | 2.3 | 7.5 | **1.7** | 51.90 | ND |
| DUP (MW-3) | 11/4/2009 | ND | ND | ND | 1.3 | ND | 1.4 | ND | ND | <1 | 1.2 | ND | ND | ND | **34.2** | ND | 2.5 | 8.4 | **1.9** | 50.90 | 8.94 |
| | 10/31/2011 | ND | ND | ND | 1.6 | ND | 1.1 | ND | ND | <1 | 1.7 | ND | ND | ND | **52.8** | ND | 2.7 | 3.7 | **0.66** J | 64.26 | ND |
| | 1/31/2012 | ND | ND | ND | 1.6 | ND | 1.3 | ND | ND | <1 | 1.7 | ND | ND | ND | **67.5** | ND | **3.8** | 5.6 | <1 | 81.50 | ND |
| | 6/6/2012 | ND | ND | ND | 1.6 | ND | 1.4 | ND | ND | <1 | 1.4 | ND | ND | ND | **58.0** | ND | **3.4** | 1.7 | <1 | 67.50 | 13.5 |
| | 8/23/2012 | ND | ND | ND | 1.7 | ND | 1.3 | ND | ND | 0.59 J | 1.6 | ND | ND | ND | **58.9** | ND | **3.3** | 2.7 | <1 | 70.09 | 16.9 |
| MW-4 | 11/6/2009 | 62.5 | <1 | 8.9 | <1 | <1 | <1 | ND | ND | ND | 1.6 | <1 | 2.8 | ND | **11.5** | <1 | **4.2** | ND | **3.7** | 95.20 | 5.56 |
| | 10/31/2011 | ND | 0.49 J | ND | 0.75 J | 1.9 | 0.65 J | ND | ND | ND | 10.4 | 0.87 J | <1 | ND | <1 | 0.30 J | 2.5 | ND | **6.8** | 24.66 | 5.28 |
| DUP (MW-4) | 10/31/2011 | ND | 0.51 J | ND | 0.73 J | 2.0 | 0.55 J | ND | ND | ND | 8.3 | 0.94 J | <1 | ND | <0.46 | 0.26 J | 1.5 | ND | **7.7** | 22.49 | ND |
| | 1/31/2012 | 167 | <1 | ND | <1 | ND | <1 | ND | ND | ND | ND | <1 | <1 | ND | <1 | <1 | <1 | ND | <1 | 167.00 | ND |
| DUP (MW-4) | 1/31/2012 | 132 | <1 | ND | <1 | ND | <1 | ND | ND | ND | ND | <1 | <1 | ND | <1 | <1 | <1 | ND | <1 | 132.00 | ND |
| | 6/6/2012 | ND | <1 | ND | <1 | ND | <1 | ND | ND | ND | 1.0 | <1 | <1 | ND | <1 | <1 | <1 | ND | <1 | 1.00 | 8.96 |
| | 8/23/2012 | ND | <1 | ND | <1 | ND | <1 | ND | ND | ND | 2.2 | <1 | <1 | ND | <1 | <1 | 0.86 J | ND | **4** | 7.06 | ND |
| MW-5 | 11/9/2009 | ND | ND | ND | 1.1 | ND | 1.8 | ND | ND | ND | 2.5 | ND | ND | ND | **65** | ND | **5.2** | ND | <1 | 75.60 | ND |
| | 10/31/2011 | ND | ND | ND | 1.0 | ND | 1.1 | ND | ND | ND | 2.1 | ND | ND | ND | **76.9** | ND | **4.1** | ND | <0.62 | 85.20 | ND |
| | 1/31/2012 | ND | ND | ND | <1 | ND | <1 | ND | ND | ND | 1.3 | ND | ND | ND | **57.7** | ND | **3.4** | ND | <1 | 62.40 | ND |
| | 6/6/2012 | ND | ND | ND | 0.56 J | ND | 1.0 J | ND | ND | ND | 1.7 | ND | ND | ND | **59.1** | ND | **3.6** | ND | <1 | 65.96 | ND |
| DUP (MW-5) | 6/6/2012 | ND | ND | ND | 0.60 J | ND | 0.96 J | ND | ND | ND | 1.9 | ND | ND | ND | **69.8** | ND | **4.0** | ND | <1 | 77.26 | 5.74 |
| | 8/23/2012 | ND | ND | ND | 0.61 J | ND | 1.0 | ND | ND | ND | 1.4 | ND | ND | ND | **61.5** | ND | **3.7** | ND | <1 | 68.21 | ND |
| DUP (MW-5) | 8/23/2012 | ND | ND | ND | 0.48 J | ND | 0.77 J | ND | ND | ND | 1.2 | ND | ND | ND | **43.1** | ND | **3.0** | ND | <1 | 48.55 | 8.50 |

## TABLE 2

## SUMMARY OF GROUNDWATER SAMPLING RESULTS

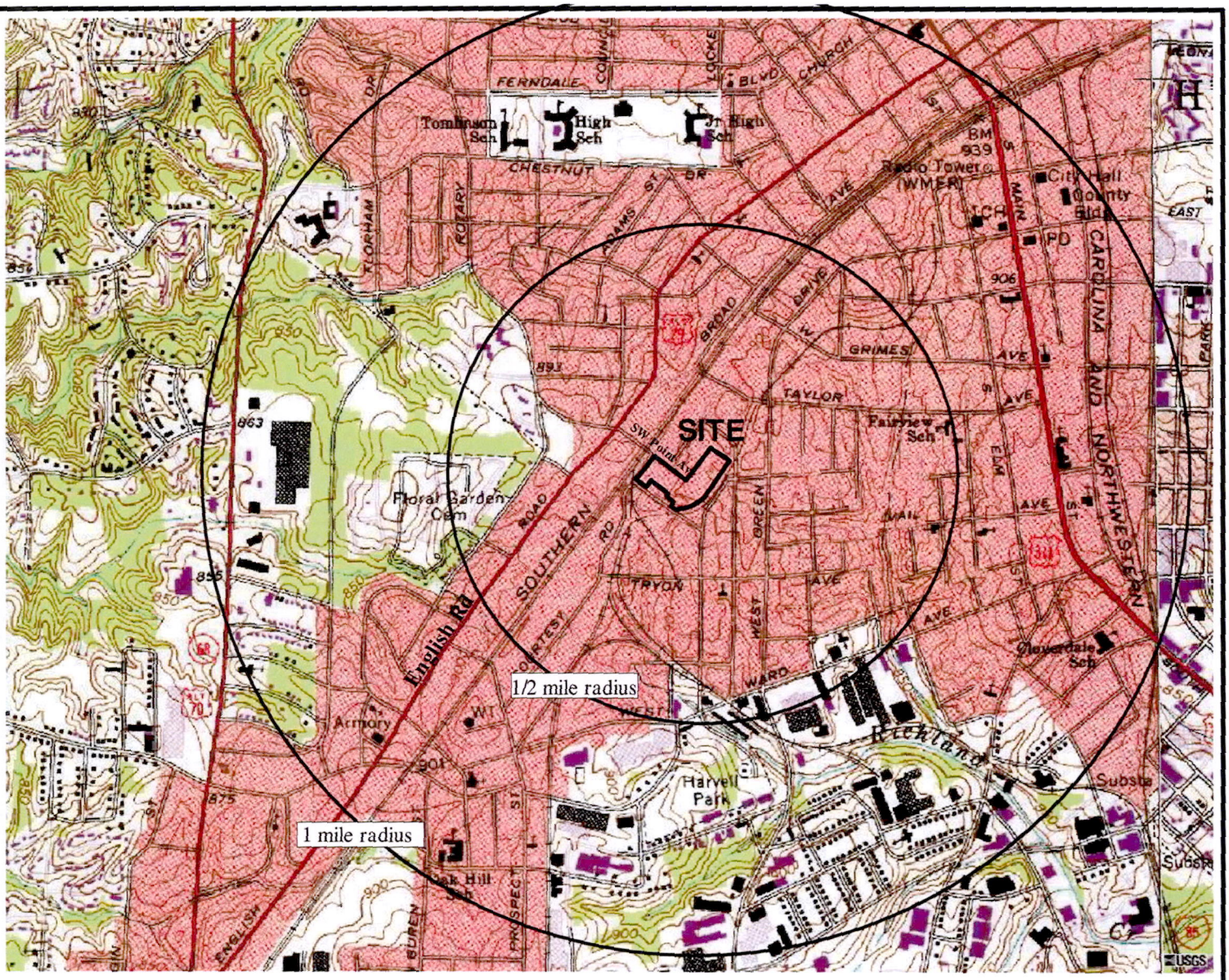
**FIBER DYNAMICS, INC.**
**200 SOUTH WEST POINT AVENUE**
**HIGH POINT, NORTH CAROLINA**
**SITE ID# NONCD 0002854**

| Well No. | Date Sampled | Volatile Organic Compounds (VOCs) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Acetone | Benzene | 2-Butanone (MEK) | Chlorobenzene | Chloroethane | 1,2-Dichlorobenzene | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | p-Isopropyltoluene | 4-Methyl-2-pentanone (MIBK) | Tetrachloroethene (PCE) | Toluene | Trichloroethene (TCE) | Trichlorofluoromethane | Vinyl chloride | **Total VOCs** | VOC TICs |
| MW-6 | 11/6/2009 | ND | ND | ND | <1 | <1 | ND | <1 | <1 | ND | <1 | ND | ND | ND | **8.8** | ND | <1 | <1 | <1 | 8.80 | 17.71 |
| DUP (MW-6) | 11/6/2009 | ND | ND | ND | <1 | <1 | ND | <1 | <1 | ND | <1 | ND | ND | ND | **8.6** | ND | <1 | <1 | <1 | 8.60 | ND |
| | 10/31/2011 | ND | ND | ND | 0.25 J | 0.17 J | ND | 0.61 J | <1 | ND | 0.49 J | ND | ND | ND | **16.6** | ND | 0.78 J | 0.58 J | <0.62 | 19.48 | ND |
| | 1/31/2012 | ND | ND | ND | <1 | <1 | ND | <1 | <1 | ND | <1 | ND | ND | ND | **17.7** | ND | <1 | <1 | <1 | 17.70 | ND |
| | 6/6/2012 | ND | ND | ND | <1 | <1 | ND | <1 | <1 | ND | 0.40 J | ND | ND | ND | **15.7** | ND | 0.87 J | <1 | <1 | 16.97 | 16.7 |
| | 8/23/2012 | ND | ND | ND | <1 | <1 | ND | 0.51 J | 0.13 J | ND | 0.47 J | ND | ND | ND | **17.9** | ND | 0.91 J | 0.66 J | <1 | 20.58 | 8.68 |
| DW-1 | 2/10/2010 | ND | ND | ND | <1 | ND | <1 | ND | ND | <1 | 5.1 | ND | ND | ND | **152** | <1 | **8.7** | ND | <1 | 165.80 | ND |
| | 10/31/2011 | ND | ND | ND | 0.46 J | ND | 0.44 J | ND | ND | <1 | 3.1 | ND | ND | 21.6 | **85.3** | 0.41 J | **3.7** | ND | <0.62 | 115.01 | 31.4 |
| | 1/31/2012 | ND | ND | ND | <1 | ND | <1 | ND | ND | <1 | 2.2 | ND | ND | 17.3 | **87.8** | <1 | **4.8** | ND | <1 | 112.10 | 54.15 |
| | 6/6/2012 | 77.1 | ND | ND | 0.54 J | ND | 0.50 J | ND | ND | <1 | 2.2 | ND | ND | 27.8 | **78.5** | 0.37 J | **4.3** | ND | <1 | 191.31 | 8.65 |
| | 8/23/2012 | 25.6 | ND | ND | 0.94 J | ND | 0.81 J | ND | ND | 0.86 J | 4.1 | ND | ND | 5.4 | **148** | <1 | **7.2** | 0.24 J | <1 | 193.15 | 212.8 |
| MW-7 | 11/26/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-8 | 11/26/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-9 | 11/26/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| DUP | 11/26/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-10 | 11/26/2012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2L Standard (ug/L) | | 6000 | 1 | 4000 | 50 | 3000 | 20 | 6 | 0.4 | 7 | 70 | 100 | 25 | 100 | 0.7 | 600 | 3 | 2000 | 0.03 | NE | NE |

Notes:
Results are presented in micrograms per liter (ug/L)
TICs = Tentatively Identified Compounds
2L Standard = NCDENR NCAC Subchapter 2L Groundwater Classifications and Standards
J = Estimated Value (between Method Detection Limit and Reporting Limit)

ND = Not Detected
NA = Not Analyzed; N/A - Not Applicable
NE - Not Extablished

# FIGURES




Scale: 1 inch = 1,700 feet

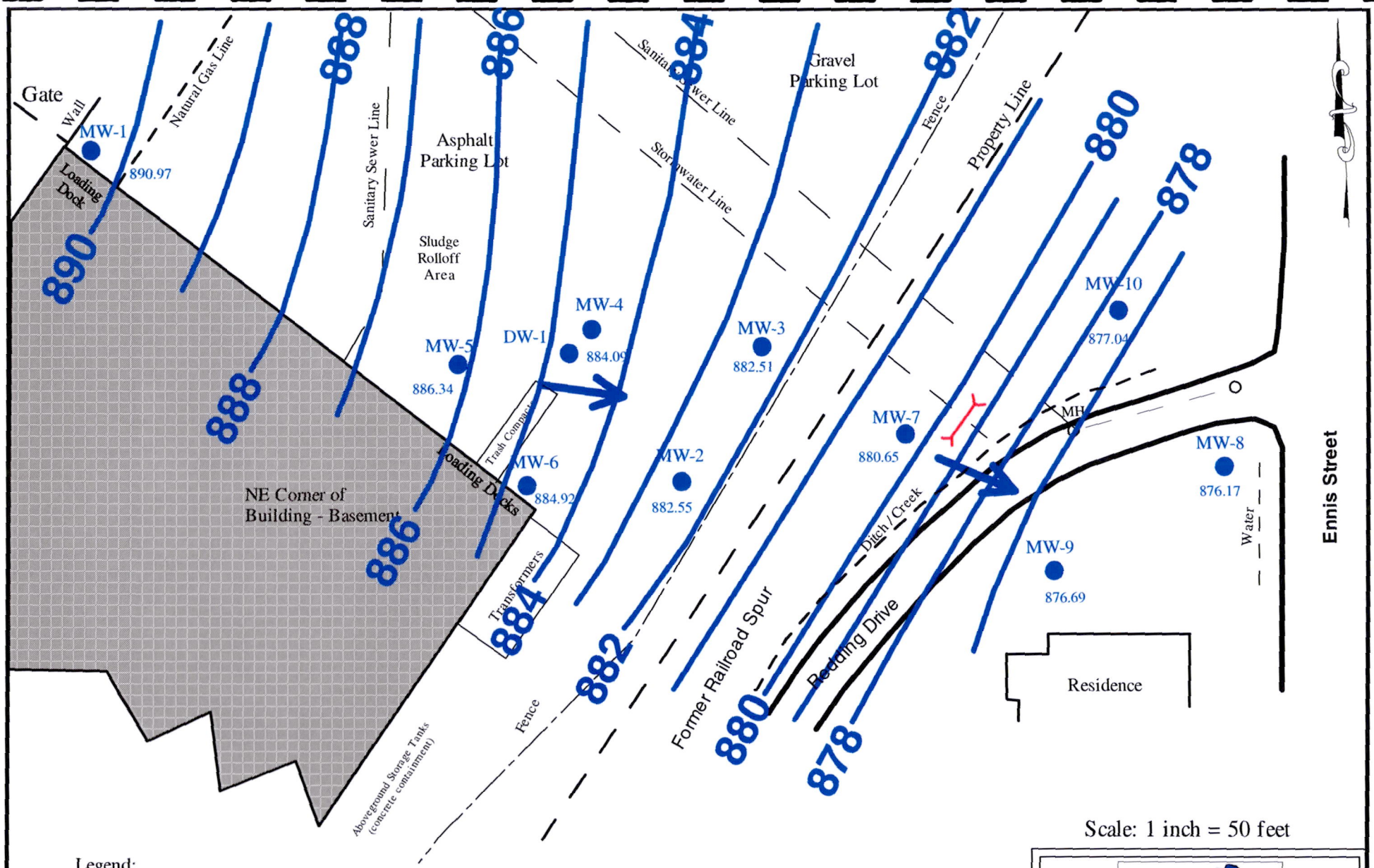
REF.: USGS High Point West NC Quadrangle Map dated 1969
photorevised 1987 from Microsoft TerraServer

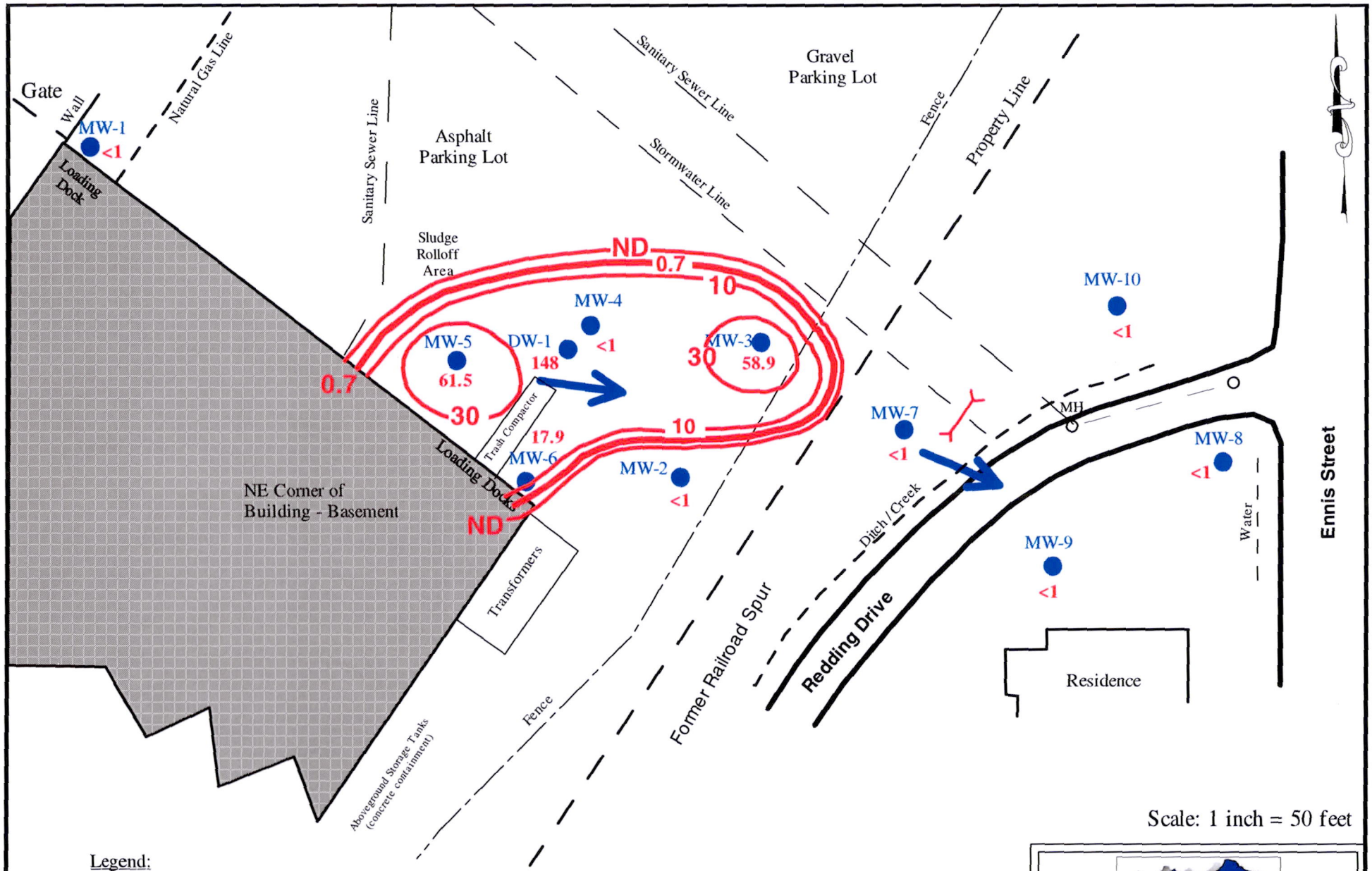
BLUE RIDGE
GEOLOGICAL SERVICES, INC.

***Site Location Map***

Fiber Dynamics
200 South West Point Avenue
High Point, North Carolina

| March 2010 | Figure 1 |
|---|---|


Gate
Wall
Natural Gas Line
MW-1
890.97
Loading Dock
890
888
886
884
882
880
878
Sanitary Sewer Line
Asphalt Parking Lot
Sludge Rolloff Area
Sanitary Sewer Line
Stormwater Line
Gravel Parking Lot
Fence
Property Line
MW-5
886.34
DW-1
MW-4
884.09
MW-3
882.51
MW-10
877.04
MW-7
880.65
MW-8
876.17
MW-6
884.92
MW-2
882.55
MW-9
876.69
Trash Compactor
Loading Docks
Transformers
NE Corner of Building - Basement
Aboveground Storage Tanks (concrete containment)
Fence
Former Railroad Spur
Ditch / Creek
Redding Drive
MH
Water
Ennis Street
Residence
Scale: 1 inch = 50 feet
Legend:
Monitoring Well
890.97 Groundwater Elevation (ft. above NGVD) on November 26, 2012
Groundwater Flow Direction
REF.: Survey by Triad Land Surveying Dated July 2009 amended Nov 2012.
BLUE RIDGE GEOLOGICAL SERVICES, INC
Groundwater Contour Map - Nov 2012
Fiber Dynamics
200 South West Point Avenue
High Point, North Carolina
Dec 2012
Figure 2




Scale: 1 inch = 50 feet

Legend:

- Monitoring Well
- 58.9 Tetrachloroethene (PCE) in Groundwater (micrograms per liter) on 8/23/12 (MW-1 to MW-5, DW-1) and 11/26/12 (MW-7 to MW-10)
- Groundwater Flow Direction

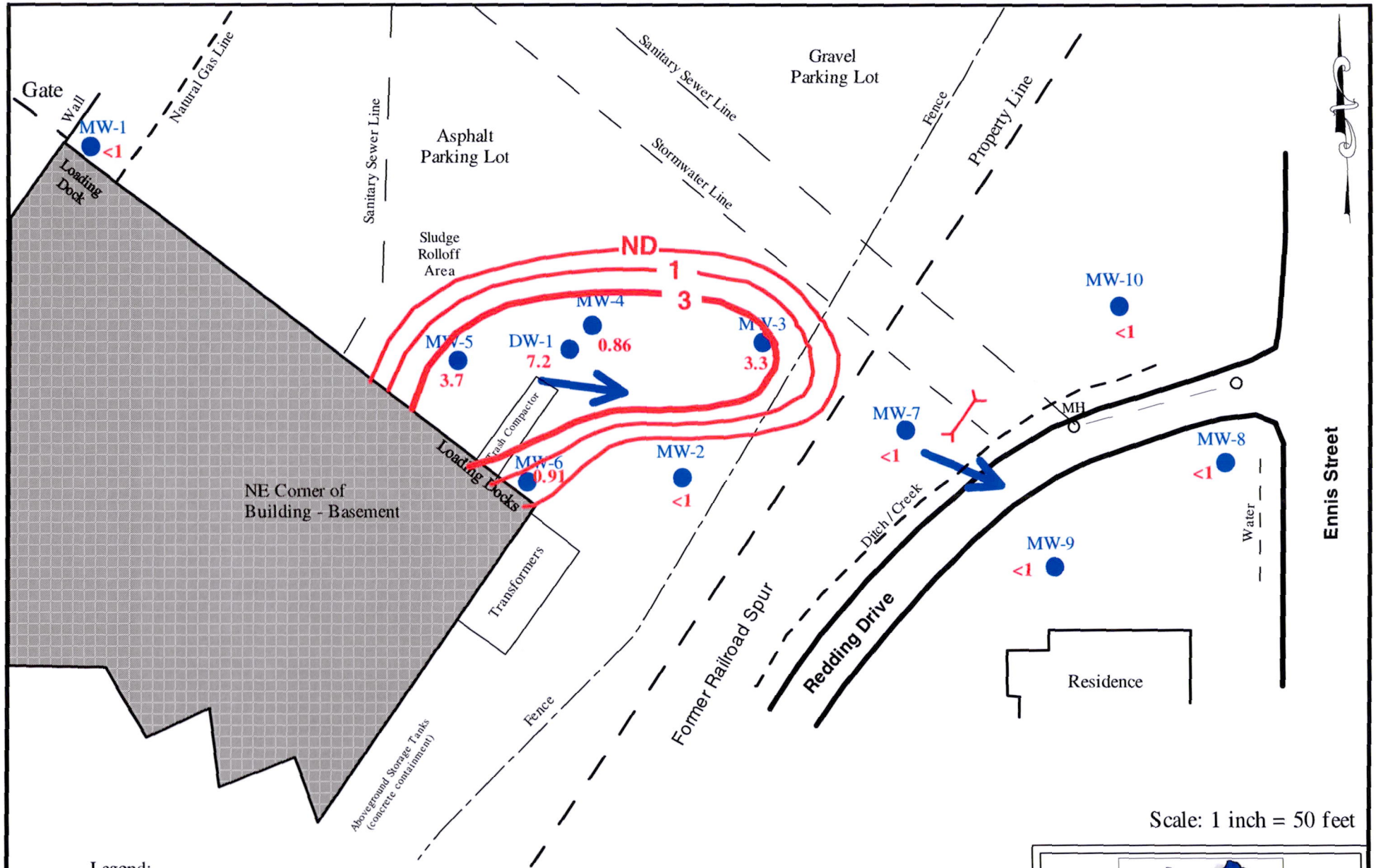
REF.: Survey by Triad Land Surveying Dated July 2009 amended Nov 2012.

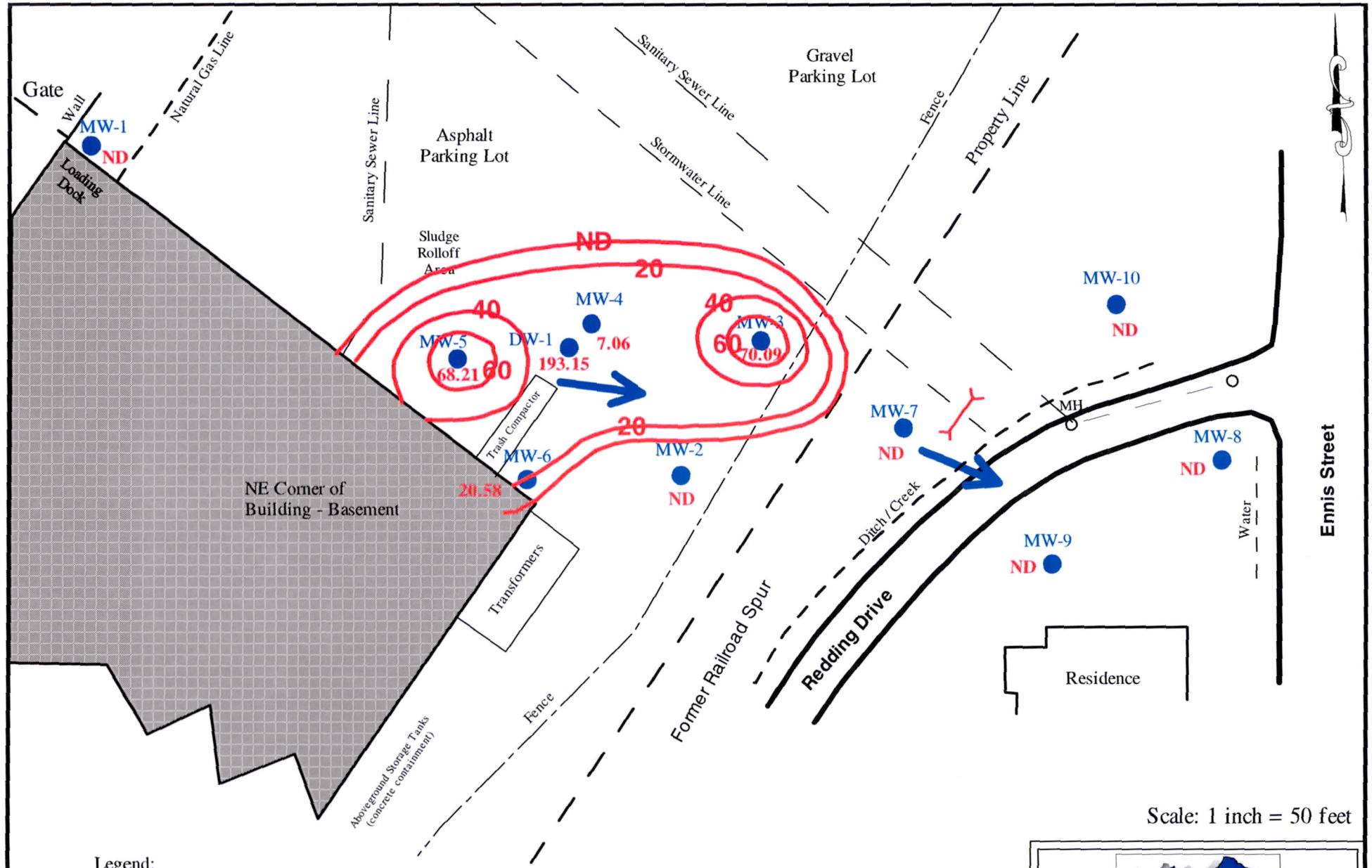
BLUE RIDGE GEOLOGICAL SERVICES, INC

***PCE in Groundwater***

Fiber Dynamics
200 South West Point Avenue
High Point, North Carolina

| Dec 2012 | Figure 3 |
|---|---|


Gate
Wall
Natural Gas Line
MW-1
<1
Loading Dock
Sanitary Sewer Line
Asphalt Parking Lot
Sludge Rolloff Area
Sanitary Sewer Line
Stormwater Line
Gravel Parking Lot
Fence
Property Line
ND
1
3
MW-4
0.86
MW-5
3.7
DW-1
7.2
MW-3
3.3
Trash Compactor
Loading Docks
MW-6
0.91
MW-2
<1
NE Corner of Building - Basement
Transformers
Aboveground Storage Tanks (concrete containment)
Fence
Former Railroad Spur
Ditch / Creek
Redding Drive
MW-7
<1
MH
MW-10
<1
MW-8
<1
MW-9
<1
Water
Ennis Street
Residence
Scale: 1 inch = 50 feet
Legend:
Monitoring Well
3.3 Trichloroethene (TCE) in Groundwater (micrograms per liter) on 8/23/12 (MW-1 to MW-5, DW-1) and 11/26/12 (MW-7 to MW-10)
Groundwater Flow Direction
REF.: Survey by Triad Land Surveying Dated July 2009 amended Nov 2012.
BLUE RIDGE
GEOLOGICAL SERVICES, INC.
TCE in Groundwater
Fiber Dynamics
200 South West Point Avenue
High Point, North Carolina
Dec 2012
Figure 4




Scale: 1 inch = 50 feet

Legend:

- Monitoring Well
- 58.9 Total VOCs in Groundwater (micrograms per liter) on 8/23/12 (MW-1 to MW-5, DW-1) and 11/26/12 (MW-7 to MW-10)
- Groundwater Flow Direction

REF.: Survey by Triad Land Surveying Dated July 2009 amended Nov 2012.

BLUE RIDGE GEOLOGICAL SERVICES, INC

***Total VOCs in Groundwater***

Fiber Dynamics
200 South West Point Avenue
High Point, North Carolina

| Dec 2012 | Figure 5 |
|---|---|

# WELL CONSTRUCTION RECORDS

# WELL CONSTRUCTION RECORD
## Guilford County Division of Environmental Health

1. Site Name: Fiber Dynamics Well #: MW-7

2. Well Location: 200 South West Point Ave, High Point, NC

3. GPS Location latitude (decimal degrees): N 35 56 47.121

   longitude (decimal degrees): W 80 00 56.662

4. Type of Well: monitoring [✓] air injection ___ air sparging [ ] groundwater recovery [ ] SVE [ ]

5. Depth of Well: 25 feet 6. Diameter of Well: 2 inches

7. Depth of Water Table below Top of Casing: 15 feet

8. Well Casing:

| Depth | Material |
|---|---|
| from 0 to 15 ft | Sch 40 PVC riser |
| from ___ to ___ ft | |

9. Screen Interval: from 15 to 25 ft

10. Grout:

| depth | material |
|---|---|
| from 0 to 10 ft | neat cement |
| from 10 to 13 ft | bentonite |

11. Gravel or sand pack interval: from 13 to 25 ft

| Depth From | Depth To | Drilling Log Formation Description |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

12. How is the well secured? bolt-down well cover, lock & expansion plug

13. Well Construction Date: beginning: 11/13/2012

    completion: 11/13/2012

14. Remarks: _____

I do hereby certify that this well was constructed in accordance with the Guilford County Well Rules and a copy of this record has been provided to the well owner.

Mike Tynan Digitally signed by Mike Tynan DN: cn=Mike Tynan, o, ou, email=mtynan@probe-tech.com, c=US Date: 2012.12.01 08:03:56 -05'00'

Signature of Contractor or Agent

12/01/2012

Date

# WELL CONSTRUCTION RECORD
## Guilford County Division of Environmental Health

1. Site Name: Fiber Dynamics Well #: MW-8

2. Well Location: 200 South Point Ave, High Point, NC

3. GPS Location latitude (decimal degrees): 35 56 47.094

   longitude (decimal degrees): 80 00 54.959

4. Type of Well: monitoring ☑ air injection ___ air sparging ☐ groundwater recovery ☐ SVE ☐

5. Depth of Well: 19 feet 6. Diameter of Well: 2 inches

7. Depth of Water Table below Top of Casing: 15 feet

8. Well Casing:

| Depth | Material |
|---|---|
| from 0 to 9 ft | Sch 40 PVC casing |
| from ___ to ___ ft | |

9. Screen Interval: from 9 to 19 ft

10. Grout:

| depth | material |
|---|---|
| from 0 to 5 ft | neat cement |
| from 5 to 7 ft | bentonite |

11. Gravel or sand pack interval: from 7 to 19 ft

12. How is the well secured? bolt-down well cover, lock & expansion plug

13. Well Construction Date: beginning: 11/13/2012

    completion: 11/13/2012

14. Remarks: _____

| Drilling Log | | |
|---|---|---|
| Depth From | Depth To | Formation Description |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

I do hereby certify that this well was constructed in accordance with the Guilford County Well Rules and a copy of this record has been provided to the well owner.

Mike Tynan Digitally signed by Mike Tynan DN: cn=Mike Tynan, o, ou, email=mtynan@probe-tech.com, c=US Date: 2012.12.01 09:49:12 -05'00' 12/01/2012

Signature of Contractor or Agent Date

# WELL CONSTRUCTION RECORD
## Guilford County Division of Environmental Health

1. Site Name: Fiber Dynamics Well #: MW-9

2. Well Location: 200 South Point Ave, High Point, NC

3. GPS Location latitude (decimal degrees): 35 56 46.435

   longitude (decimal degrees): 80 00 56.168

4. Type of Well: monitoring ☑ air injection ___ air sparging ☐ groundwater recovery ☐ SVE ☐

5. Depth of Well: 18 feet 6. Diameter of Well: 2 inches

7. Depth of Water Table below Top of Casing: 14 feet

8. Well Casing:

| Depth | Material |
|---|---|
| from 0 to 8 ft | Sch 40 PVC casing |
| from ___ to ___ ft | |

9. Screen Interval: from 8 to 18 ft

10. Grout:

| depth | material |
|---|---|
| from 0 to 3 ft | neat cement |
| from 3 to 6 ft | bentonite |

11. Gravel or sand pack interval: from 6 to 18 ft

12. How is the well secured? bolt-down well cover, lock & expansion plug

13. Well Construction Date: beginning: 11/13/2012

    completion: 11/13/2012

14. Remarks:

| Depth From | Depth To | Drilling Log Formation Description |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

I do hereby certify that this well was constructed in accordance with the Guilford County Well Rules and a copy of this record has been provided to the well owner.

Mike Tynan Digitally signed by Mike Tynan DN: cn=Mike Tynan, o, ou, email=mtynan@probe-tech.com, c=US Date: 2012.12.01 09:53:08 -05'00'

Signature of Contractor or Agent

12/01/2012

Date

# WELL CONSTRUCTION RECORD
## Guilford County Division of Environmental Health

1. Site Name: Fiber Dynamics Well #: MW-10

2. Well Location: 200 South Point Ave, High Point, NC

3. GPS Location latitude (decimal degrees): 35 56 47.300

   longitude (decimal degrees): 80 00 55.920

4. Type of Well: monitoring [✓] air injection ___ air sparging [ ] groundwater recovery [ ] SVE [ ]

5. Depth of Well: 24 feet 6. Diameter of Well: 2 inches

7. Depth of Water Table below Top of Casing: 13 feet

8. Well Casing:

| Depth | Material |
|---|---|
| from 0 to 14 ft | Sch 40 PVC casing |
| from ___ to ___ ft | |

9. Screen Interval: from 14 to 24 ft

10. Grout:

| depth | material |
|---|---|
| from 0 to 9 ft | neat cement |
| from 9 to 12 ft | bentonite |

11. Gravel or sand pack interval: from 12 to 24 ft

12. How is the well secured? bolt-down well cover, lock & expansion plug

13. Well Construction Date: beginning: 11/16/2012

    completion: 11/16/2012

14. Remarks: _____

| Depth From | Depth To | Drilling Log Formation Description |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

I do hereby certify that this well was constructed in accordance with the Guilford County Well Rules and a copy of this record has been provided to the well owner.

Mike Tynan Digitally signed by Mike Tynan DN: cn=Mike Tynan, o, ou, email=mtynan@probe-tech.com, c=US Date: 2012.12.01 09:57:42 -05'00' 12/01/2012

Signature of Contractor or Agent Date

# LABORATORY REPORT AND CHAIN OF CUSTODY FORM

Pace Analytical
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Huntersville, NC 28078
(704)875-9092

December 04, 2012

Mr. Jeff Gerlock
Blue Ridge Geological Services
306 Eden Terrace
Suite C
Archdale, NC 27263

RE: Project: Fiber 201297
Pace Project No.: 92139351

Dear Mr. Gerlock:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie McKee for
Charles Hardin
tripp.hardin@pacelabs.com
Analyst

Enclosures


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(704)875-9092

## CERTIFICATIONS

Project: Fiber 201297
Pace Project No.: 92139351

**Charlotte Certification IDs**
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221


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Huntersville, NC 28078
(704)875-9092

## SAMPLE SUMMARY

Project: Fiber 201297
Pace Project No.: 92139351

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 92139351001 | MW-8 | Water | 11/16/12 12:00 | 11/20/12 15:50 |
| 92139351002 | MW-9 | Water | 11/16/12 12:40 | 11/20/12 15:50 |
| 92139351003 | MW-10 | Water | 11/16/12 13:10 | 11/20/12 15:50 |
| 92139351004 | MW-7 | Water | 11/16/12 13:40 | 11/20/12 15:50 |
| 92139351005 | DUP | Water | 11/16/12 00:00 | 11/20/12 15:50 |


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## SAMPLE ANALYTE COUNT

Project: Fiber 201297
Pace Project No.: 92139351

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 92139351001 | MW-8 | EPA 8260 | MCK | 64 | PASI-C |
| 92139351002 | MW-9 | EPA 8260 | MCK | 64 | PASI-C |
| 92139351003 | MW-10 | EPA 8260 | MCK | 64 | PASI-C |
| 92139351004 | MW-7 | EPA 8260 | MCK | 64 | PASI-C |
| 92139351005 | DUP | EPA 8260 | MCK | 64 | PASI-C |


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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-6** **Lab ID: 92139351001** Collected: 11/16/12 12:00 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 11/22/12 06:09 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 11/22/12 06:09 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:09 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1 | | 11/22/12 06:09 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 11/22/12 06:09 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 11/22/12 06:09 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:09 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 127-18-4 | |



**REPORT OF LABORATORY ANALYSIS**



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-6** **Lab ID: 92139351001** Collected: 11/16/12 12:00 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 11/22/12 06:09 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 11/22/12 06:09 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 11/22/12 06:09 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:09 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 4-Bromofluorobenzene (S) | 107 | % | 70-130 | 1 | | 11/22/12 06:09 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | 1 | | 11/22/12 06:09 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 11/22/12 06:09 | 17060-07-0 | |
| Toluene-d8 (S) | 94 | % | 70-130 | 1 | | 11/22/12 06:09 | 2037-26-5 | |



REPORT OF LABORATORY ANALYSIS



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-9** Lab ID: 92139351002 Collected: 11/16/12 12:40 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 11/22/12 06:25 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 11/22/12 06:25 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:25 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1 | | 11/22/12 06:25 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 11/22/12 06:25 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 11/22/12 06:25 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:25 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 127-18-4 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-9** Lab ID: 92139351002 Collected: 11/16/12 12:40 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 11/22/12 06:25 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 11/22/12 06:25 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 11/22/12 06:25 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:25 | 95-47-6 | |
| *Surrogates* | | | | | | | | |
| 4-Bromofluorobenzene (S) | 103 | % | 70-130 | 1 | | 11/22/12 06:25 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | 1 | | 11/22/12 06:25 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 11/22/12 06:25 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | % | 70-130 | 1 | | 11/22/12 06:25 | 2037-26-5 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-10** **Lab ID: 92139351003** Collected: 11/16/12 13:10 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 11/22/12 06:41 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 11/22/12 06:41 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:41 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1 | | 11/22/12 06:41 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 11/22/12 06:41 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 11/22/12 06:41 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:41 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 127-18-4 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-10** **Lab ID: 92139351003** Collected: 11/16/12 13:10 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 11/22/12 06:41 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 11/22/12 06:41 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 11/22/12 06:41 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:41 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | 1 | | 11/22/12 06:41 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | 1 | | 11/22/12 06:41 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | 1 | | 11/22/12 06:41 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 11/22/12 06:41 | 2037-26-5 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-7** **Lab ID: 92139351004** Collected: 11/16/12 13:40 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 11/22/12 06:56 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 11/22/12 06:56 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:56 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1 | | 11/22/12 06:56 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 11/22/12 06:56 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 11/22/12 06:56 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 11/22/12 06:56 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 127-18-4 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: MW-7** **Lab ID: 92139351004** Collected: 11/16/12 13:40 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 11/22/12 06:56 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 11/22/12 06:56 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 11/22/12 06:56 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 11/22/12 06:56 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | 1 | | 11/22/12 06:56 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | 1 | | 11/22/12 06:56 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | 1 | | 11/22/12 06:56 | 17060-07-0 | |
| Toluene-d8 (S) | 95 | % | 70-130 | 1 | | 11/22/12 06:56 | 2037-26-5 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: DUP** **Lab ID: 92139351005** Collected: 11/16/12 00:00 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 11/22/12 07:12 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 11/22/12 07:12 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 11/22/12 07:12 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 1 | | 11/22/12 07:12 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 11/22/12 07:12 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 11/22/12 07:12 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 11/22/12 07:12 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 127-18-4 | |



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## ANALYTICAL RESULTS

Project: Fiber 201297
Pace Project No.: 92139351

**Sample: DUP** **Lab ID: 92139351005** Collected: 11/16/12 00:00 Received: 11/20/12 15:50 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 11/22/12 07:12 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 11/22/12 07:12 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 11/22/12 07:12 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 11/22/12 07:12 | 95-47-6 | |
| *Surrogates* | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | 1 | | 11/22/12 07:12 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | 1 | | 11/22/12 07:12 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | 1 | | 11/22/12 07:12 | 17060-07-0 | |
| Toluene-d8 (S) | 97 | % | 70-130 | 1 | | 11/22/12 07:12 | 2037-26-5 | |



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## QUALITY CONTROL DATA

Project: Fiber 201297
Pace Project No.: 92139351

QC Batch: MSV/21174 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92139351001, 92139351002, 92139351003, 92139351004, 92139351005

METHOD BLANK: 877418 — Matrix: Water
Associated Lab Samples: 92139351001, 92139351002, 92139351003, 92139351004, 92139351005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,1-Dichloropropene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 5.0 | 11/22/12 00:20 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 2,2-Dichloropropane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 2-Butanone (MEK) | ug/L | ND | 5.0 | 11/22/12 00:20 | |
| 2-Chlorotoluene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 2-Hexanone | ug/L | ND | 5.0 | 11/22/12 00:20 | |
| 4-Chlorotoluene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 11/22/12 00:20 | |
| Acetone | ug/L | ND | 25.0 | 11/22/12 00:20 | |
| Benzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Bromobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Bromochloromethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Bromoform | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Bromomethane | ug/L | ND | 2.0 | 11/22/12 00:20 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Chlorobenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Chloroethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Chloroform | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Chloromethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Dibromomethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Diisopropyl ether | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Ethylbenzene | ug/L | ND | 1.0 | 11/22/12 00:20 | |



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## QUALITY CONTROL DATA

Project: Fiber 201297
Pace Project No.: 92139351

METHOD BLANK: 877418 — Matrix: Water
Associated Lab Samples: 92139351001, 92139351002, 92139351003, 92139351004, 92139351005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| m&p-Xylene | ug/L | ND | 2.0 | 11/22/12 00:20 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Methylene Chloride | ug/L | ND | 2.0 | 11/22/12 00:20 | |
| Naphthalene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| o-Xylene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| p-Isopropyltoluene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Styrene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Toluene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Trichloroethene | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Vinyl acetate | ug/L | ND | 2.0 | 11/22/12 00:20 | |
| Vinyl chloride | ug/L | ND | 1.0 | 11/22/12 00:20 | |
| Xylene (Total) | ug/L | ND | 2.0 | 11/22/12 00:20 | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 70-130 | 11/22/12 00:20 | |
| 4-Bromofluorobenzene (S) | % | 104 | 70-130 | 11/22/12 00:20 | |
| Dibromofluoromethane (S) | % | 101 | 70-130 | 11/22/12 00:20 | |
| Toluene-d8 (S) | % | 96 | 70-130 | 11/22/12 00:20 | |

LABORATORY CONTROL SAMPLE: 877419

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 45.6 | 91 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 43.1 | 86 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 48.2 | 96 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 49.2 | 98 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 47.4 | 95 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 44.0 | 88 | 70-132 | |
| 1,1-Dichloropropene | ug/L | 50 | 45.3 | 91 | 70-130 | |
| 1,2,3-Trichlorobenzene | ug/L | 50 | 42.9 | 86 | 70-135 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 49.1 | 98 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 43.2 | 86 | 70-134 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 44.9 | 90 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 50.1 | 100 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 45.7 | 91 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 40.6 | 81 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 50 | 47.6 | 95 | 70-130 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 46.4 | 93 | 70-130 | |
| 1,3-Dichloropropane | ug/L | 50 | 47.3 | 95 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 46.3 | 93 | 70-130 | |
| 2,2-Dichloropropane | ug/L | 50 | 36.3 | 73 | 58-145 | |
| 2-Butanone (MEK) | ug/L | 100 | 115 | 115 | 70-145 | |



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## QUALITY CONTROL DATA

Project: Fiber 201297
Pace Project No.: 92139351

LABORATORY CONTROL SAMPLE: 877419

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 2-Chlorotoluene | ug/L | 50 | 44.8 | 90 | 70-130 | |
| 2-Hexanone | ug/L | 100 | 117 | 117 | 70-144 | |
| 4-Chlorotoluene | ug/L | 50 | 45.5 | 91 | 70-130 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 110 | 110 | 70-140 | |
| Acetone | ug/L | 100 | 94.6 | 95 | 50-175 | |
| Benzene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| Bromobenzene | ug/L | 50 | 46.2 | 92 | 70-130 | |
| Bromochloromethane | ug/L | 50 | 45.4 | 91 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 46.7 | 93 | 70-130 | |
| Bromoform | ug/L | 50 | 50.8 | 102 | 70-130 | |
| Bromomethane | ug/L | 50 | 38.5 | 77 | 54-130 | |
| Carbon tetrachloride | ug/L | 50 | 44.3 | 89 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 48.6 | 97 | 70-130 | |
| Chloroethane | ug/L | 50 | 45.4 | 91 | 64-134 | |
| Chloroform | ug/L | 50 | 44.7 | 89 | 70-130 | |
| Chloromethane | ug/L | 50 | 47.8 | 96 | 64-130 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 44.3 | 89 | 70-131 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 45.9 | 92 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 48.3 | 97 | 70-130 | |
| Dibromomethane | ug/L | 50 | 49.2 | 98 | 70-131 | |
| Dichlorodifluoromethane | ug/L | 50 | 38.5 | 77 | 56-130 | |
| Diisopropyl ether | ug/L | 50 | 47.4 | 95 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 47.0 | 94 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 48.2 | 96 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 98.5 | 99 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 44.6 | 89 | 70-130 | |
| Methylene Chloride | ug/L | 50 | 47.8 | 96 | 63-130 | |
| Naphthalene | ug/L | 50 | 45.5 | 91 | 70-138 | |
| o-Xylene | ug/L | 50 | 46.7 | 93 | 70-130 | |
| p-Isopropyltoluene | ug/L | 50 | 42.7 | 85 | 70-130 | |
| Styrene | ug/L | 50 | 48.3 | 97 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 48.2 | 96 | 70-130 | |
| Toluene | ug/L | 50 | 47.7 | 95 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 44.3 | 89 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 44.9 | 90 | 70-132 | |
| Trichloroethene | ug/L | 50 | 46.4 | 93 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 46.0 | 92 | 62-133 | |
| Vinyl acetate | ug/L | 100 | 88.3 | 88 | 66-157 | |
| Vinyl chloride | ug/L | 50 | 42.7 | 85 | 69-130 | |
| Xylene (Total) | ug/L | 150 | 145 | 97 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 94 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 104 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 93 | 70-130 | |
| Toluene-d8 (S) | % | | | 97 | 70-130 | |



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(704)875-9092

## QUALIFIERS

Project: Fiber 201297
Pace Project No.: 92139351

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PRL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fiber 201297
Pace Project No.: 92139351

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 92139351001 | MW-8 | EPA 8260 | MSV/21174 | | |
| 92139351002 | MW-9 | EPA 8260 | MSV/21174 | | |
| 92139351003 | MW-10 | EPA 8260 | MSV/21174 | | |
| 92139351004 | MW-7 | EPA 8260 | MSV/21174 | | |
| 92139351005 | DUP | EPA 8260 | MSV/21174 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1474876

**Section A** Required Client Information:

Company: Blue Ridge Geological Svcs
Address: 306 Eden Terrace, Ste C
Archdale, NC 27263
Email To: jeff.gerlock@gmail.com
Phone: 336-382-6849 Fax:
Requested Due Date/TAT: Std

**Section B** Required Project Information:

Report To: Jeff Gerlock
Copy To:
Purchase Order No.: [redacted] JCB
Project Name: Fiber
Project Number: 201297

**Section C** Invoice Information:

Attention: Jeff Gerlock
Company Name: BRGS
Address:
Pace Quote Reference:
Pace Project Manager: T Hardin
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER IHSB

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | 8260 inl TICs N | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-8 | | | | | 11/16/12 | 1200 | | 3 | | | | 3 | | | | | X | | | 001 |
| 2 | MW-9 | | | | | ↓ | 1240 | | ↓ | | | | ↓ | | | | | ↓ | | | 002 |
| 3 | MW-10 | | | | | ↓ | 1310 | | ↓ | | | | ↓ | | | | | ↓ | | | 003 |
| 4 | MW-7 | | | | | ↓ | 1340 | | ↓ | | | | ↓ | | | | | ↓ | | | 004 |
| 5 | DUP | | | | | ↓ | — | | ↓ | | | | ↓ | | | | | ↓ | | | 005 |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NCDENR DWM IHSB | [signature] / BRGS | 11/20/12 | 1367 | [signature] | 11/20/12 | 1367 | | | | |
| Guidelines | [signature] | 11-20-12 | 1550 | [signature] | 11/20/12 | 15-5 | 2.8 | 4.5 | — | — |
| | | | | | | | | | | |
| | | | | | | | | | | |

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jeff Gerlock
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/16/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007