



engineering and constructing a better tomorrow

August 12, 2013

Mr. Michael Mason

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, 12th Floor

Albany, New York 12233-7013

Subject: **Former Diamond Cleaners Site, Site No. 808030**
Draft Field Activities Report - Groundwater and Soil Sampling Results
Work Assignment # D007619-03
MACTEC Engineering and Consulting, P.C., Project No. 3612112209

Dear Mr. Mason:

MACTEC Engineering and Consulting, P.C. (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC), is submitting this Field Activities Report (Report) for the former Diamond Cleaners Site (DC Site) located at 717 Lake Street in the north-central section of the City of Elmira, Chemung County, New York (Figure 1). The Site is listed as a Class 2 Inactive hazardous waste site; Site No. 808030 in the Registry of Hazardous Waste Sites in New York State (NYS). This Report is being submitted under the NYSDEC Work Assignment #D007619-03, and in accordance with the Superfund Standby Contract between MACTEC and the NYSDEC.

INTRODUCTION

The purpose of the work performed is to monitor the effectiveness that the recently completed remedial action at the Site has had on groundwater quality, and to assess soil and groundwater quality at the nearby Associated Textile Rental Services (ATRS) Site.

The Site consists of a one-acre lot in a commercial and residential area. Prior to the remedial action conducted in 2012 to address chlorinated solvent contamination in soil and in groundwater, the Site contained a one story building with a grassy area west of the building, gravel parking area

south of the building, and a paved parking area north of the building. The building superstructure was demolished in March 2011.

The former ATRS Site is a roughly 0.75 acre parcel located at 714 Baldwin Street in a light industrial area of the City of Elmira, Chemung County, New York. The Site contains an approximately 6,000 square foot warehouse building and a small driveway. The remainder of the property is grass covered. Vacant property borders the Site to the north and south. The DC Site is located upgradient, approximately 300 feet east of the ATRS property. Industrial property lies to the west of the ATRS Site, across Clemens Parkway. The Sullivan Street Public Supply Wells are located approximately 5,000 feet north of the Site.

BACKGROUND

The NYSDEC issued the DC Site Record of Decision (ROD) for operable unit (OU)-1 on 31 March 2008 (NYSDEC, 2008a). The OU-1 ROD selected demolition of the DC Site building, excavation of contaminated soils exceeding remediation goals, and transportation and off-Site disposal of contaminated soil and building debris as the remedy for source area soils.

The NYSDEC issued the ROD for OU-2 in March 2010 (NYSDEC, 2010). The OU-2 ROD selected in-situ chemical oxidation and in-situ enhanced biodegradation as the remedy for Site groundwater. Sodium permanganate would oxidize contaminants in the source area. When source area groundwater stabilizes, enhanced biodegradation reagents could be injected if necessary pending results of groundwater monitoring.

Remedial action at the DC Site conducted in 2012 consisted of:

- excavation of contaminated soils exceeding remediation goals, and transportation and off-Site disposal of contaminated soil and building debris
- injection of sodium permanganate to oxidize groundwater contaminants in the source area
- installation of 12 groundwater monitoring wells (MW-12 through MW-23) both on-Site and off-Site; these wells had not been sampled prior to the field activities discussed in this Report.

A summary of the remedial action conducted in 2012 is contained in the Final Engineering Report (MACTEC, 2013a).

Groundwater monitoring discussed in this Report was conducted to monitor the effectiveness of the recently completed remedial action. In addition, sampling activities were performed to assess soil and groundwater quality at the nearby ATRS Site.

Subsequent investigations at the DC Site, including pre-design investigations conducted in separate mobilizations in March 2010, October 2010, and May 2012 were completed following the issuance of the ROD (NYSDEC, 2010), and are described in the Final Engineering Report (MACTEC, 2013a). Previous investigations at the ATRS Site are described in the 2008 Final Site Characterization Report for the ATRS Site (MACTEC, 2008) and the DC Remedial Investigation/Feasibility Study Report (MACTEC, 2009).

FIELD ACTIVITIES – MAY 2013

The objective of the May 2013 field investigation was to 1) monitor the effectiveness that the recently completed remedial action at the DC Site has had on groundwater quality, and 2) to assess soil and groundwater quality at the nearby ATRS Site.

Field activities planned at the DC and ATRS Sites is outlined in the Field Activities Plan (FAP): May 2013 Groundwater Sampling – former Diamond Cleaners (NYSDEC Site 808030) (MACTEC, 2013b). Fieldwork discussed in this Report was performed during the period between May 6 and May 9, 2013.

The following activities were conducted at the DC and ATRS Sites:

- A total of 36 groundwater samples were collected from 35 monitoring locations associated with the DC and ATRS Sites. Water samples were submitted for volatile organic compound (VOC) analysis
- A total of six (6) grab groundwater samples and 11 soil samples were collected from five direct push soil borings advanced on the ATRS property. Soil borings were placed coincident with sample locations previously advanced during a 2007 investigation conducted at the ATRS Site. Water and soil grab samples were submitted for VOC analysis;

Under direct contract with the NYSDEC, analytical and drilling services were provided by the following NYSDEC callout contractors:

- TestAmerica Laboratories, Inc. – provided soil and groundwater laboratory analytical services
- SJB Services, Inc./Empire Geo Services, Inc. –provided direct-push drilling services and provided means to treat discharge/purge water on-Site using granular activated carbon (GAC).

Investigation Derived Waste

Use of dedicated sampling equipment was used to the extent practical during this field effort. Used disposable equipment and personal protective clothing was double bagged in polyethylene trash bags and sealed with twist ties. This material was disposed of as nonhazardous municipal solid waste.

Groundwater well and direct push purge water generated during sampling activities at locations identified to be contaminated based on previous sampling results was containerized and treated on-Site using a portable GAC unit. The list of wells/borings identified as needing groundwater GAC treatment was provided in Table 2 of the FAP (MACTEC, 2013b). Treated water and groundwater from wells in which treatment was identified as not being necessary, as well as wash-water used to clean direct-push tools and water level indicators was discharged to the ground in a controlled manner.

Groundwater Sampling Activities

To evaluate current groundwater concentrations in the vicinity of the DC and ATRS Sites, low-flow groundwater sampling was conducted at 35 monitoring locations, as shown on Figure 2. Prior to groundwater sampling, water level measurements were collected at previously installed monitoring wells and piezometers both on- and off-Site.

Well sampling was conducted by MACTEC personnel according to MACTEC's Program Quality Assurance Program Plan (MACTEC, 2011). Field parameters, including water levels, pH, temperature, specific conductivity, oxidation reduction potential and dissolved oxygen were also

recorded at each monitoring location during pre-sample purging. Following collection, groundwater samples were submitted to TestAmerica Laboratories, Inc. for laboratory analysis of VOCs by United States Environmental Protection Agency (USEPA) Method 8260 following the NYSDEC Analytical Services Protocols (NYSDEC, 2005). Groundwater monitoring field data records are included in Attachment 1.

Groundwater purged during monitoring well sampling and direct-push groundwater grab sampling was containerized and treated on-Site using a portable GAC unit. The list of wells/borings identified as needing GAC treatment based on previous sampling results is provided on Table 1. Groundwater from wells in which treatment was not necessary was discharged to the ground in a controlled manner.

Direct Push Sampling Program – ATRS Site

To assess current soil and groundwater quality, as well as to compare current results to results at those sample locations previously evaluated at the ATRS Site, direct push soil and water sampling were conducted, as described in the following sub-sections.

Direct Push Soil Borings

Based on previous analytical data, soil borings during the May 2013 sampling event were placed coincident to previous borings advanced during a 2007 investigation performed at the ATRS Site. To evaluate the extent of potential soil contamination at the ATRS Site, five new soil borings (ATGW-002A, ATGW-026A, ATGW-043A, ATGW-045A, and ATGW-046A) were advanced at locations south and east of the ATRS Site building, similar to those completed in 2007. Soil boring locations are shown on Figure 2.

Soil samples were collected continuously from the ground surface to a maximum depth of 19 feet below ground surface. Soil samples were described consistent with the Unified Soil Classification System. Photoionization detector (PID) headspace readings were used to screen soil samples for the potential presence of VOCs as each soil sample was removed from the sample collection tube. The sample description and classification, PID headspace reading, and boring observations were recorded on the Soil Boring Logs, included in Attachment 1.

Two soil samples were collected from each boring for laboratory analysis of VOCs by USEPA Method 8260C with methanol preservation. The sample intervals were selected based on the portion of the soil core that had the highest PID reading, or were selected by the field geologist based on visual and/or olfactory characteristics. Upon completion, each boring was backfilled and the ground surface repaired to its original condition.

Direct Push Groundwater Sampling

Subsequent to direct push soil sampling, groundwater grab samples were collected from each direct push soil boring location. Upon completion of the soil sampling, a temporary one-inch diameter polyvinyl chloride narrow diameter well with a five-foot screen was deployed into each borehole. Groundwater was then purged and sampled from these temporary points at low-flow rates using dedicated polyethylene tubing and a peristaltic pump. Groundwater grab samples were submitted for laboratory analysis of VOCs by USEPA Method 8260. Relevant sample information was recorded on the direct push soil boring logs (see Attachment 1).

RESULTS

Groundwater Level Readings

Water level readings were collected to establish the potentiometric groundwater surface underlying the DC and ATRS Sites and the surrounding area at the time of sampling. Water level elevations and monitoring locations construction information are presented on Table 2. Based upon the water level readings, groundwater is interpreted to flow to southwest west across the two Sites, as depicted on Figure 3.

Soil and Groundwater Sampling

The results for the May 2013 soil and groundwater sampling event are discussed in the following subsections. Table 1 summarizes VOC detections in groundwater samples. Analytical data from groundwater samples were compared to the New York Codes, Rules, and Regulations (NYCRR) Subpart 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Class GA Waters (NYSDEC, 2008b). Table 3 summarizes VOC detections in soil samples, with results compared to the NYCRR Subpart 375-6.8: Soil

Cleanup Objectives (NYSDEC, 2006). Sample concentrations observed to exceed criteria are presented with bold/shaded text in these tables. The Data Usability Summary Report and complete analytical results are included in Attachment 2.

Groundwater Sampling Results

The concentrations of chlorinated solvents, as well as fuel related compounds detected in groundwater samples at the DC and ATRS Sites were observed to be generally consistent with historic data or are generally decreasing for most parameters at most locations. Results of the May 2013 sampling event show concentrations of primary groundwater contaminants of concern (COCs) (primarily tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cis-1,2-DCE], and vinyl chloride), in addition to other VOC compounds (including benzene and its derivatives) reported at levels above NYS GA Standards at locations on both the DC and ATRS Sites. Sample locations, including detections of PCE, TCE and cis-1,2-DCE, are shown on Figure 4.

Diamond Cleaners Site

Results from groundwater samples collected at locations near the area of remedial action (i.e., GW-002, MW-001, MW-007, MW-020 and MW-021) at the DC Site generally show an improvement in groundwater quality in the vicinity of the contaminant source area, possibly a result of the recent remedial action at the DC Site. Concentrations of PCE, TCE and cis-1,2-DCE are generally reported at levels lower than those from previous sampling events. Note that wells MW-020 and MW-021 were installed in the area of previously sampled MW-005, which was destroyed during remedial construction related activities in 2012. Analytical data from these two locations was evaluated along with previous data from MW-005.

ATRS Site

Groundwater Sampling Results – ATRS Site Monitoring Wells

Groundwater sample data reported from samples collected at the ATRS Site show concentrations of chlorinated solvents and fuel related compounds above NYS GA Standards at six monitoring well locations. Concentrations of PCE, TCE, cis-1,2-DCE, benzene, ethyl benzene, isopropyl benzene,

toluene and xylenes were reported in excess of NYS criteria at ATMW-001, ATMW-001R, ATMW-002, ATMW-004, ATMW-008, and ATMW-009.

Groundwater Sampling Results – ATRS Site Direct Push

Chlorinated solvents and fuel related VOCs were detected in each of the five groundwater samples obtained at the ATRS direct push locations; VOC compounds were reported above NYS GA Standards for each of the five groundwater samples.

Soil Sampling Results – ATRS Site Direct Push Soil Borings

Unconsolidated overburden encountered during soil sampling at the direct push soil borings at the ATRS Site consisted of silts, sands and gravels of varying consistency. These observations are similar to those described during previous investigations.

Analytical results reported from soil samples collected at the five soil borings indicate that relatively low concentrations of VOCs, including PCE, TCE and cis-1,2-DCE, were reported in each of the soil borings. Toluene was detected in ATGW-002A and in ATGW-043A. None of the detected compounds were reported above NYSDEC criteria. Benzene, ethyl benzene, isopropyl benzene, and xylenes were not detected in any of the samples. Sample locations and detections of VOC compounds are shown on Figure 5.

SUMMARY AND RECOMMENDATIONS

The May 2013 sampling investigation was conducted to monitor the effectiveness that the recently completed remedial action at the DC Site has had on groundwater quality, and to assess soil and groundwater quality at the nearby ATRS Site. The findings of the investigation are summarized below:

Summary

Former Diamond Cleaners Site

- A total of 25 groundwater samples were collected from 25 monitoring locations associated with the DC Site. Water samples were submitted for VOC analysis. Concentrations of

VOCs, including PCE, TCE, cis-1,2-DCE and vinyl chloride exceeded NYS GA Standards at several locations;

- Results from groundwater samples collected at GW-002, MW-001, MW-007, MW-020 and MW-021 at the DC Site generally show an improvement in groundwater quality in the area of remedial action, possibly a result of the recent remedial action at the DC Site. Concentrations of PCE, TCE and cis-1,2-DCE are generally reported at levels lower than those from previous sampling events.

ATRS Site

- Groundwater samples were collected from 10 groundwater monitoring wells associated with the ATRS Sites to evaluate concentrations of VOC compounds in shallow groundwater. Concentrations of chlorinated solvents and fuel related compounds exceeded NYS GA Standards at six (6) locations;
- To better understand contaminant distribution south and east of the ATRS Site building, 11 soil samples and five groundwater samples were obtained from 5 exploration locations and analyzed for VOCs. Site related COCs, including PCE, were detected in each soil sample; no VOCs were reported above NYS criteria. Chlorinated solvents and fuel related VOCs were detected in each of the five groundwater samples obtained at the ATRS direct push locations; VOC compounds were reported above NYS GA Standards for each of the five groundwater samples.

Recommendations

Based on findings from the May 2013 soil and groundwater sampling program conducted at the DC and ATRS Sites, AMEC has the following recommendations for further investigation at one or both of the Sites:

- 1) No apparent boundary of groundwater contamination has been established along the southern end of the plume in the area of the DC and ATRS Sites. Additional sampling and proposed well installation is recommended in the area to the south of the ATRS building to determine the lateral extent of the plume.
- 2) Soil data obtained previously during the Region 8 Site characterization at the ATRS Site (MACTEC, 2008) indicate that shallow soil contamination was encountered in borings east of the ATRS Site building. This, combined with the results from the May 2013 soil borings, suggests the contamination reported to date is residual and that the source area has not been identified. Additional soil borings along the east and south sides of the building are recommended to define the limits – and possibly a source - of soil contamination in this area.
- 3) Based on previous soil vapor data reported in the 2008 Site Characterization report for the ATRS Site (MACTEC, 2008), there is the potential for soil contamination (and potentially the source) to be located under the ATRS building. Additional soil vapor sampling and potential interior soil borings (if possible) are recommended to potentially identify a

contaminant source underlying the ATRS building, as well as confirm previously reported soil vapor results obtained during the 2008 Site characterization (MACTEC, 2008).

- 4) Based on concentrations of fuel related compounds (benzene, ethyl benzene, isopropyl benzene, toluene and xylenes) reported in groundwater samples collected at ATMW-001, ATMW-001R, ATMW-002 and ATMW-004, further investigation to better characterize evidence of benzene and its derivatives noted during previous sampling at ATRS Site is recommended.
- 5) The OU-2 ROD for the DC Site (NYSDEC, 2010) recommended soil vapor sampling at the DC Site to monitor the effectiveness of the remedial action. Sampling vapor sampling at both the DC site and the ATRS site is recommended to determine if there are vapor intrusion concerns.
- 6) While concentrations of chlorinated solvents have shown a recent decrease at sample locations in close proximity to the area of remedial action, continued monitoring of groundwater quality is recommended to evaluate the effectiveness of the remedy over time.

We appreciate the opportunity to present this report. If you have any questions or concerns please call Mark Stelmack at 207-828-3592 or Lucas Benedict at 207-828-3599.

Sincerely,

MACTEC Engineering and Consulting, P.C.

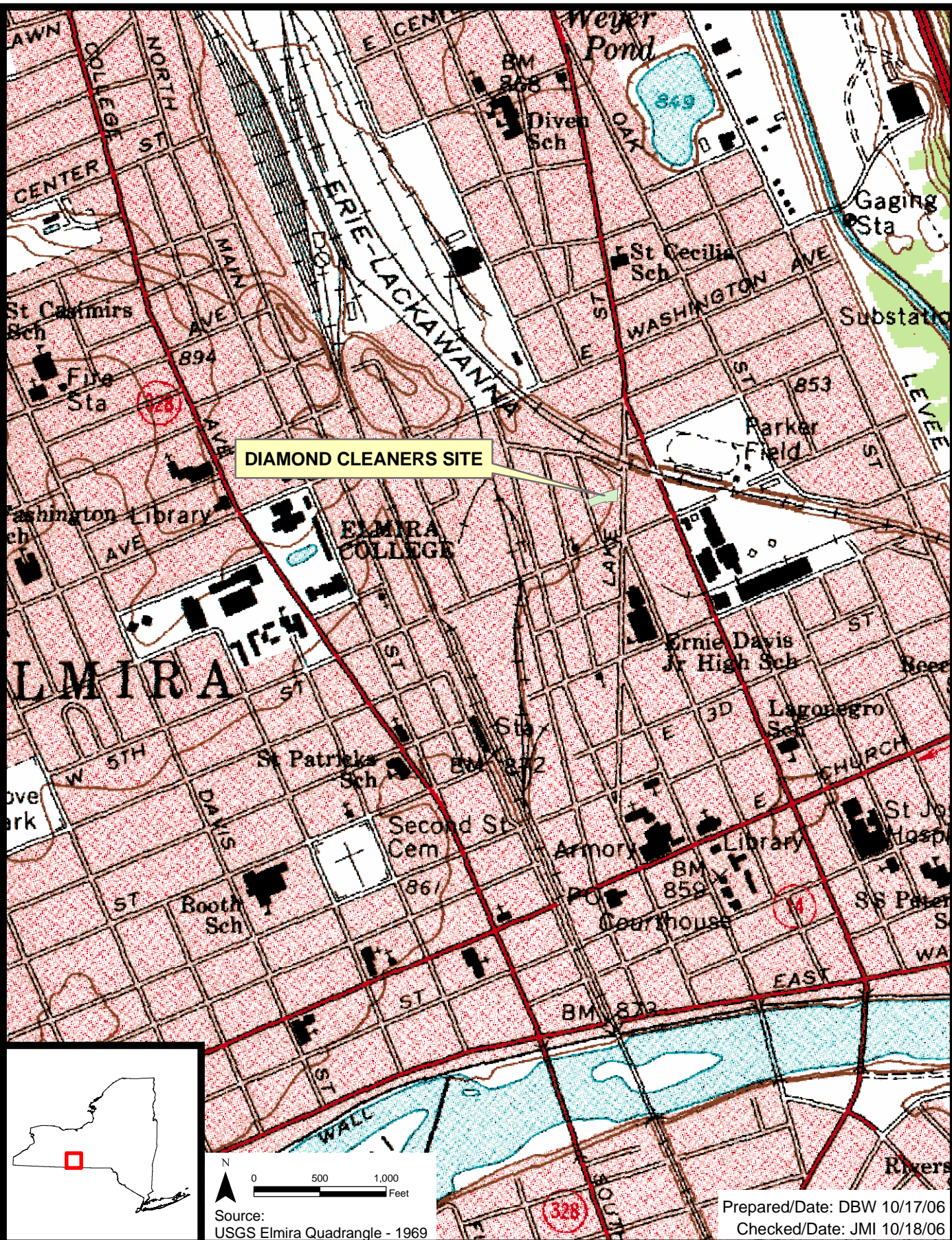
Mark J. Stelmack, PE
Project Manager

Lucas J. Benedict
Project Scientist

Enclosures (2)

REFERENCES

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NYSDEC
FORMER DIAMOND CLEANERS
Elmira, New York



Site Location
Project 3612-11-2209
Figure 1

Prepared/Date: DBW 10/17/06
Checked/Date: JMI 10/18/06

Direct Push Soil Boring

Diamond Cleaners Property

Former ATRS Property

N

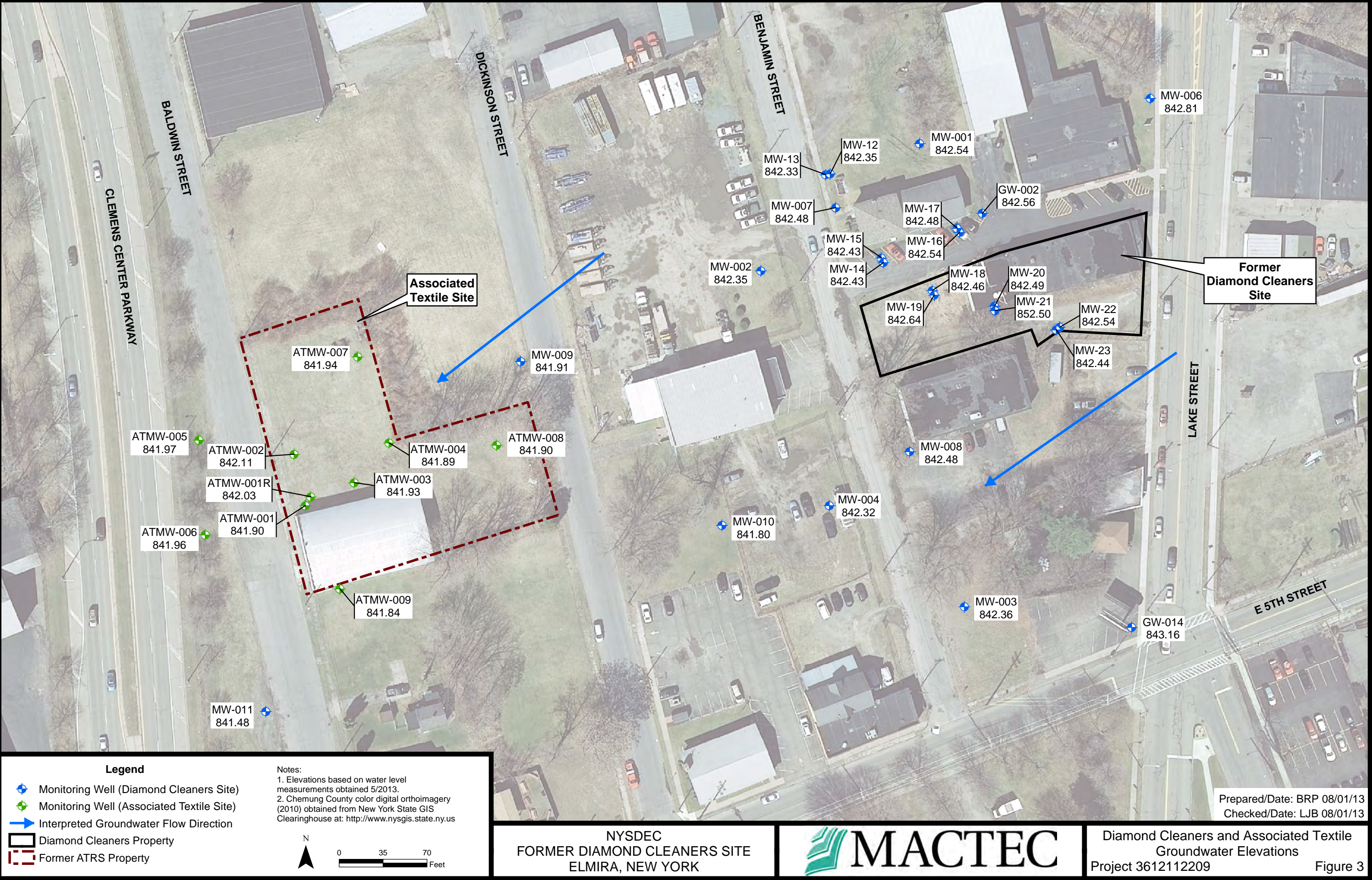
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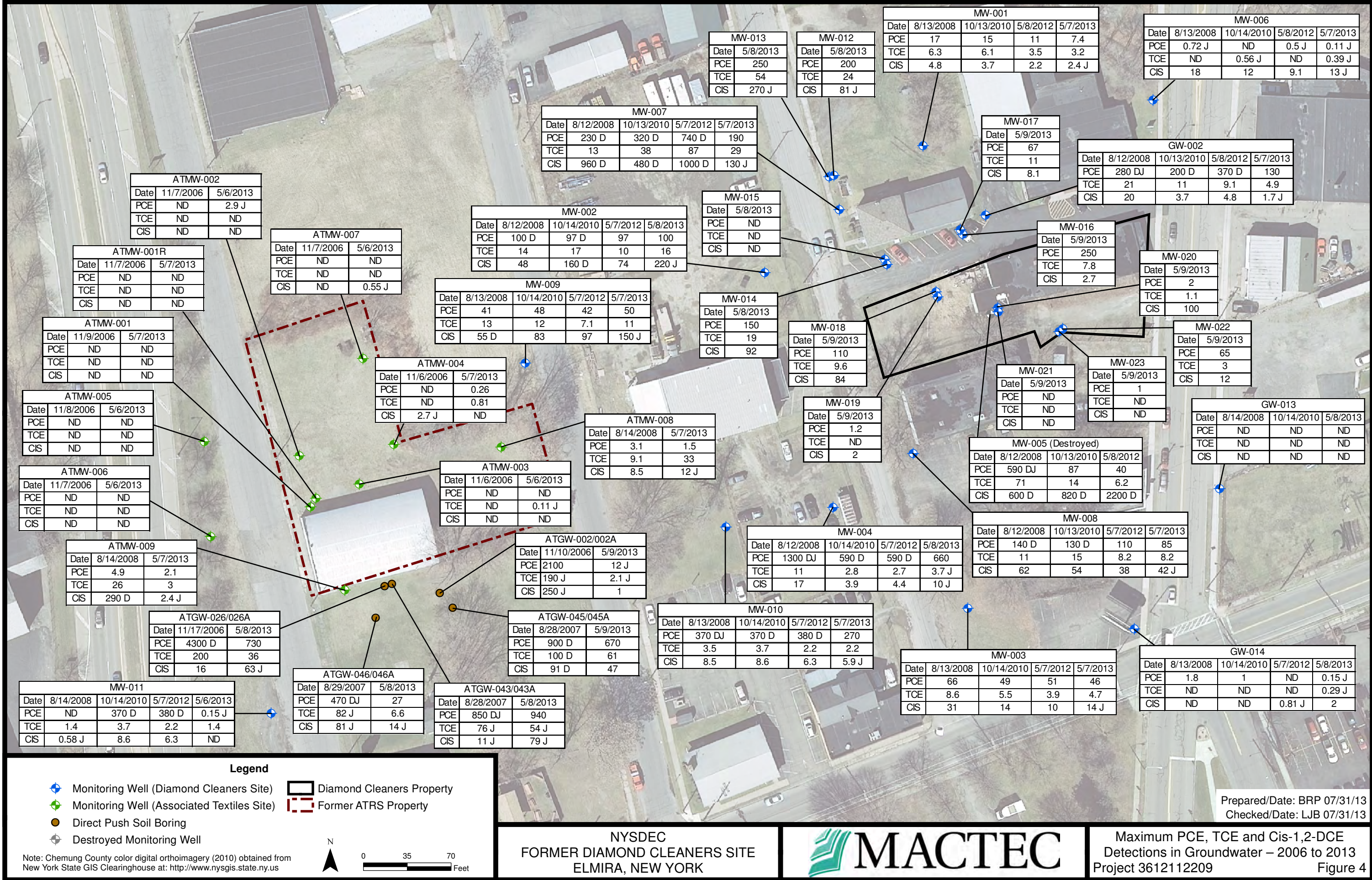
NYSDEC
FORMER DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

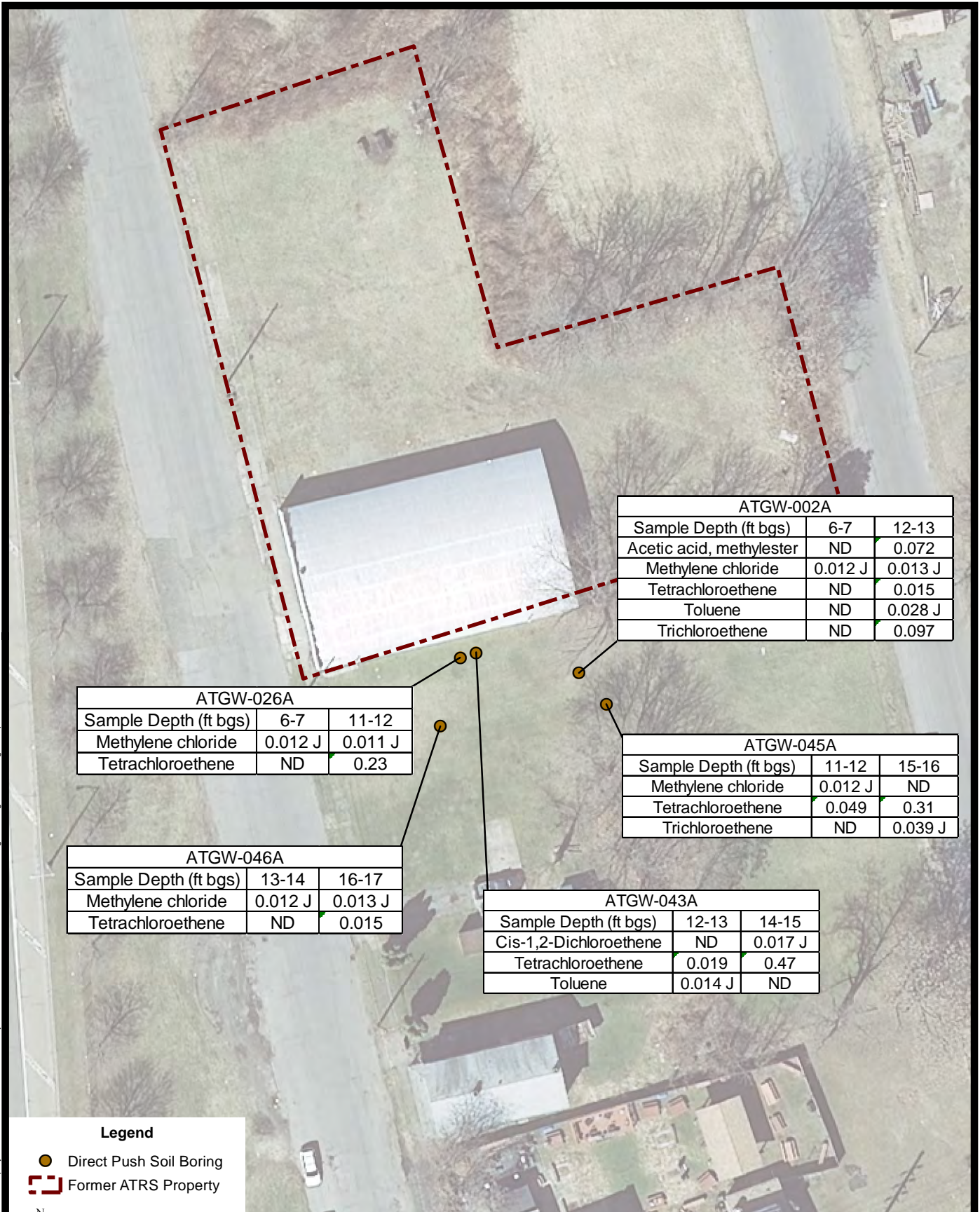
MACTEC

Diamond Cleaners and Associated Textile
Soil and Groundwater Sampling Locations
Project 3612112209

Figure 2







Note: Chemung County color digital orthoimagery (2010) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>

Prepared/Date: DBW 08/08/13
 Checked/Date: LJB 08/08/13

NYSDEC
 FORMER DIAMOND CLEANERS SITE
 ELMIRA, NEW YORK



Soil Borings with VOC Data
 Project 3612112209 Figure 5

Table 1: Analytical Data Summary - Groundwater

| Parameter | Location | GW-002 | | GW-013 | | GW-014 | | MW-001 | | MW-002 | | MW-003 | |
|--------------------------|----------------------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|
| | Sample Date | 5/7/2013 | | 5/8/2013 | | 5/8/2013 | | 5/7/2013 | | 5/8/2013 | | 5/7/2013 | |
| | Sample ID Qc Code | DCGW00212013XX FS | | DCGW01312013XX FS | | DCGW01413013XX FS | | DCMW00112013XX FS | | DCMW00212013XX FS | | DCMW00312013XX FS | |
| Criteria | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| 1,1,1-Trichloroethane | 5 | 0.12 J | | 1 U | | 1 U | | 1 U | | 0.087 J | | 0.11 J | |
| 1,1,2-Trichloroethane | 1 | 1 U | | 1 U | | 1 U | | 1 U | | 3.4 | | 1 U | |
| 1,1-Dichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 0.44 J | | 1 U | |
| 1,2-Dichloroethane | 0.6 | 1 U | | 1 U | | 1 U | | 1 U | | 2.1 | | 1 U | |
| 1,3-Dichlorobenzene | 3 | 1 U | | 1 UJ | | 1 UJ | | 1 U | | 1 U | | 1 U | |
| 1,4-Dichlorobenzene | 3 | 1 U | | 1 UJ | | 1 UJ | | 1 U | | 1 U | | 1 U | |
| 2-Butanone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 11 J | | 5 UJ | |
| Acetone | 50 | 5 UJ | | 13 J | | 5 UJ | | 5 UJ | | 2.8 J | | 5 UJ | |
| Benzene | 1 | 1 U | | 0.15 J | | 1 U | | 1 U | | 0.17 J | | 1 U | |
| Bromoform | 50 | 1 U | | 1 UJ | | 1 UJ | | 1 U | | 1 U | | 1 U | |
| Bromomethane | 5 | 1 U | | 1 UJ | | 1 UJ | | 1 U | | 0.25 J | | 1 U | |
| Carbon disulfide | 60 | 1 U | | 0.42 J | | 0.31 J | | 1 U | | 1 U | | 1 U | |
| Chlorodibromomethane | 50 | 1 U | | 1 UJ | | 1 UJ | | 1 U | | 89 | | 1 U | |
| Chloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 0.41 J | | 1 U | |
| Chloroform | 7 | 1 U | | 1 U | | 1 U | | 1 U | | 0.11 J | | 0.28 J | |
| Chloromethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 0.19 J | | 1 U | |
| Cis-1,2-Dichloroethene | 5 | 1.7 J | | 1 U | | 2 | | 2.4 J | | 220 J | | 14 J | |
| Cyclohexane | | 1 UJ | | 1 U | | 1 U | | 1 UJ | | 1 UJ | | 1 UJ | |
| Ethyl benzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Isopropylbenzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Methyl cyclohexane | | 1 U | | 1 U | | 1 U | | 1 U | | 0.18 J | | 1 U | |
| Methyl Tertbutyl Ether | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Tetrachloroethene | 5 | 130 | | 1 U | | 0.15 J | | 7.4 | | 100 | | 46 | |
| Toluene | 5 | 1 U | | 0.27 J | | 0.18 J | | 1 U | | 1 U | | 1 U | |
| trans-1,2-Dichloroethene | 5 | 1 UJ | | 1 U | | 1 U | | 1 UJ | | 0.99 J | | 1 UJ | |
| Trichloroethene | 5 | 4.9 | | 1 U | | 0.29 J | | 3.2 | | 16 | | 4.7 | |
| Vinyl chloride | 2 | 1 U | | 1 U | | 1 U | | 1 U | | 0.93 J | | 1 U | |
| Xylenes, Total | 5 | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

August 2013

| Parameter | Location Sample Date Sample ID Qc Code Criteria | MW-004 5/8/2013 DCMW00412013XD FD | | MW-004 5/8/2013 DCMW00412013XX FS | | MW-006 5/7/2013 DCMW00612013XX FS | | MW-007 5/7/2013 DCMW00712013XX FS | | MW-008 5/7/2013 DCMW00812013XX FS | | MW-009 5/7/2013 DCMW00912013XX FS | |
|--------------------------|---|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|
| | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 0.12 J | |
| 1,1,2-Trichloroethane | 1 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethane | 5 | 5 U | | 5 U | | 0.25 J | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethene | 5 | 5 U | | 5 U | | 1 U | | 0.31 J | | 1 U | | 0.19 J | |
| 1,2-Dichloroethane | 0.6 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,3-Dichlorobenzene | 3 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,4-Dichlorobenzene | 3 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 2-Butanone | 50 | 25 UJ | | 25 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| Acetone | 50 | 25 UJ | | 25 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| Benzene | 1 | 5 U | | 5 U | | 1 U | | 0.1 J | | 1 U | | 0.099 J | |
| Bromoform | 50 | 5 UJ | | 5 UJ | | 1 UJ | | 1 U | | 1 U | | 1 UJ | |
| Bromomethane | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Carbon disulfide | 60 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chlorodibromomethane | 50 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroethane | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroform | 7 | 5 U | | 5 U | | 1 U | | 1 U | | 0.17 J | | 1 U | |
| Chloromethane | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Cis-1,2-Dichloroethene | 5 | 9.4 J | | 10 J | | 13 J | | 130 J | | 42 J | | 150 J | |
| Cyclohexane | | 5 UJ | | 5 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 1 UJ | |
| Ethyl benzene | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Isopropylbenzene | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Methyl cyclohexane | | 5 UJ | | 5 UJ | | 1 UJ | | 1 U | | 1 U | | 1 UJ | |
| Methyl Tertbutyl Ether | | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Tetrachloroethene | 5 | 620 | | 660 | | 0.11 J | | 190 | | 85 | | 50 | |
| Toluene | 5 | 5 U | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| trans-1,2-Dichloroethene | 5 | 5 UJ | | 5 UJ | | 1 UJ | | 0.74 J | | 0.33 J | | 0.81 J | |
| Trichloroethene | 5 | 4.4 J | | 3.7 J | | 0.39 J | | 29 | | 8.2 | | 11 | |
| Vinyl chloride | 2 | 5 U | | 5 U | | 0.21 J | | 1.1 | | 0.59 J | | 0.15 J | |
| Xylenes, Total | 5 | 15 U | | 15 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

August 2013

| Parameter | Location Sample Date Sample ID Qc Code Criteria | MW-010 5/7/2013 DCMW01012013XX FS | | MW-011 5/6/2013 DCMW01112013XX FS | | MW-012 5/8/2013 DCMW1212013XX FS | | MW-013 5/8/2013 DCMW1312013XX FS | | MW-014 5/8/2013 DCMW1412013XX FS | | MW-015 5/8/2013 DCMW1512013XX FS | |
|--------------------------|---|--|-----------|--|-----------|---|-----------|---|-----------|---|-----------|---|-----------|
| | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1,2-Trichloroethane | 1 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethene | 5 | 1 U | | 1 U | | 0.12 J | | 0.6 J | | 1 U | | 1 U | |
| 1,2-Dichloroethane | 0.6 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,3-Dichlorobenzene | 3 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,4-Dichlorobenzene | 3 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 2-Butanone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 U | | 5 U | |
| Acetone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| Benzene | 1 | 1 U | | 1 U | | 0.084 J | | 0.13 J | | 1 U | | 1 U | |
| Bromoform | 50 | 1 U | | 1 UJ | | 1 U | | 1 UJ | | 1 U | | 1 U | |
| Bromomethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Carbon disulfide | 60 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chlorodibromomethane | 50 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroform | 7 | 0.18 J | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloromethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Cis-1,2-Dichloroethene | 5 | 5.9 J | | 1 UJ | | 81 J | | 270 J | | 92 | | 1 U | |
| Cyclohexane | | 1 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 1 U | | 1 U | |
| Ethyl benzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Isopropylbenzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Methyl cyclohexane | | 1 U | | 1 UJ | | 1 U | | 1 UJ | | 1 U | | 1 U | |
| Methyl Tertbutyl Ether | | 1 U | | 1.3 | | 1 U | | 1 U | | 1 U | | 1 U | |
| Tetrachloroethene | 5 | 270 | | 0.15 J | | 200 | | 250 | | 150 | | 1 U | |
| Toluene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| trans-1,2-Dichloroethene | 5 | 1 UJ | | 1 UJ | | 0.55 J | | 1.5 J | | 0.76 J | | 1 U | |
| Trichloroethene | 5 | 2.2 | | 1.4 | | 24 | | 54 | | 19 | | 1 U | |
| Vinyl chloride | 2 | 1 U | | 1 U | | 1 U | | 2.2 | | 2.1 | | 1 U | |
| Xylenes, Total | 5 | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

August 2013

| Parameter | Location Sample Date Sample ID Qc Code Criteria | MW-016 5/9/2013 DCMW1612013XX FS | | MW-017 5/9/2013 DCMW1712013XX FS | | MW-018 5/9/2013 DCMW1812013XX FS | | MW-019 5/9/2013 DCMW1912013XX FS | | MW-020 5/9/2013 DCMW2012013XX FS | | MW-021 5/9/2013 DCMW2112013XX FS | |
|--------------------------|---|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|
| | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1,2-Trichloroethane | 1 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,2-Dichloroethane | 0.6 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,3-Dichlorobenzene | 3 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,4-Dichlorobenzene | 3 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 2-Butanone | 50 | 5 U | | 5 U | | 5 U | | 5 U | | 5 U | | 18 | |
| Acetone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 36 J | | 5 UJ | | 440 J | |
| Benzene | 1 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Bromoform | 50 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 4 | |
| Bromomethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Carbon disulfide | 60 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chlorodibromomethane | 50 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroform | 7 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 0.68 J | |
| Chloromethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Cis-1,2-Dichloroethene | 5 | 2.7 | | 8.1 | | 84 | | 2 | | 100 | | 1 U | |
| Cyclohexane | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Ethyl benzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Isopropylbenzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Methyl cyclohexane | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Methyl Tertbutyl Ether | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Tetrachloroethene | 5 | 250 | | 67 | | 110 | | 1.2 | | 2 | | 1 U | |
| Toluene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| trans-1,2-Dichloroethene | 5 | 1 U | | 1 U | | 0.38 J | | 1 U | | 1 U | | 1 U | |
| Trichloroethene | 5 | 7.8 | | 11 | | 9.6 | | 1 U | | 1.1 | | 1 U | |
| Vinyl chloride | 2 | 1 U | | 0.54 J | | 1.4 | | 1 U | | 6.2 | | 1 U | |
| Xylenes, Total | 5 | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

August 2013

| Parameter | Location Sample Date Sample ID Qc Code Criteria | MW-022 5/9/2013 DCMW2212013XX FS | | MW-023 5/9/2013 DCMW2312013XX FS | | ATGW-002A 5/9/2013 ATGW00212013XD FD | | ATGW-002A 5/9/2013 ATGW00212013XX FS | | ATGW-026A 5/8/2013 ATGW02612013XX FS | | ATGW-043A 5/8/2013 ATGW04312013XX FS | |
|--------------------------|---|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|
| | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| 1,1,2-Trichloroethane | 1 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| 1,1-Dichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| 1,1-Dichloroethene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| 1,2-Dichloroethane | 0.6 | 1 U | | 1 U | | 1 UJ | | 2 J | | 5 U | | 10 U | |
| 1,3-Dichlorobenzene | 3 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 UJ | |
| 1,4-Dichlorobenzene | 3 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 UJ | |
| 2-Butanone | 50 | 5 U | | 5 U | | 5 U | | 5 U | | 25 UJ | | 50 UJ | |
| Acetone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 25 UJ | | 50 UJ | |
| Benzene | 1 | 1 U | | 1 U | | 1 U | | 0.21 J | | 5 U | | 10 U | |
| Bromoform | 50 | 1 U | | 1 U | | 1 U | | 1 U | | 5 UJ | | 10 UJ | |
| Bromomethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 UJ | |
| Carbon disulfide | 60 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 2.7 J | |
| Chlorodibromomethane | 50 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 UJ | |
| Chloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Chloroform | 7 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Chloromethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Cis-1,2-Dichloroethene | 5 | 12 | | 1 U | | 1 U | | 1 | | 63 J | | 79 J | |
| Cyclohexane | | 1 U | | 1 U | | 1 U | | 1 U | | 5 UJ | | 10 U | |
| Ethyl benzene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Isopropylbenzene | 5 | 1.4 | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Methyl cyclohexane | | 1 U | | 1 U | | 1 U | | 1 U | | 5 UJ | | 10 U | |
| Methyl Tertbutyl Ether | | 1 U | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Tetrachloroethene | 5 | 65 | | 1 | | 4.5 J | | 12 J | | 730 | | 940 | |
| Toluene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 2 J | | 10 U | |
| trans-1,2-Dichloroethene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 5 UJ | | 10 U | |
| Trichloroethene | 5 | 3 | | 1 U | | 0.97 J | | 2.1 J | | 36 | | 54 J | |
| Vinyl chloride | 2 | 2 | | 1 U | | 1 U | | 1 U | | 5 U | | 10 U | |
| Xylenes, Total | 5 | 3 U | | 3 U | | 3 U | | 3 U | | 15 U | | 30 U | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

August 2013

| Parameter | Location Sample Date Sample ID Qc Code Criteria | ATGW-045A 5/9/2013 ATGW04512013XX FS | | ATGW-046A 5/8/2013 ATGW04612013XX FS | | ATMW-001 5/7/2013 ATMW00112013XX FS | | ATMW-001R 5/7/2013 ATMW001R12013XX FS | | ATMW-002 5/6/2013 ATMW00212013XX FS | | ATMW-003 5/6/2013 ATMW00312013XX FS | |
|--------------------------|---|---|-----------|---|-----------|--|-----------|--|-----------|--|-----------|--|-----------|
| | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 5 U | | 0.34 J | | 1 U | | 1 U | | 5 U | | 1 U | |
| 1,1,2-Trichloroethane | 1 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| 1,1-Dichloroethane | 5 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| 1,1-Dichloroethene | 5 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| 1,2-Dichloroethane | 0.6 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| 1,3-Dichlorobenzene | 3 | 5 U | | 1 U | | 1 U | | 1 UJ | | 5 U | | 1 U | |
| 1,4-Dichlorobenzene | 3 | 5 U | | 1 U | | 1 U | | 1 UJ | | 5 U | | 1 U | |
| 2-Butanone | 50 | 25 U | | 5 UJ | | 5 UJ | | 5 UJ | | 25 UJ | | 5 UJ | |
| Acetone | 50 | 37 J | | 6 J | | 5 UJ | | 5 UJ | | 25 UJ | | 5 UJ | |
| Benzene | 1 | 5 U | | 0.33 J | | 25 | | 8.8 | | 920 | | 1 U | |
| Bromoform | 50 | 5 U | | 1 UJ | | 1 UJ | | 1 UJ | | 5 UJ | | 1 UJ | |
| Bromomethane | 5 | 5 U | | 1 U | | 1 UJ | | 1 UJ | | 5 U | | 1 U | |
| Carbon disulfide | 60 | 5 U | | 0.18 J | | 1 U | | 0.15 J | | 5 U | | 1 U | |
| Chlorodibromomethane | 50 | 5 U | | 1 U | | 1 U | | 1 UJ | | 5 U | | 1 U | |
| Chloroethane | 5 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| Chloroform | 7 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 0.44 J | |
| Chloromethane | 5 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| Cis-1,2-Dichloroethene | 5 | 47 | | 14 J | | 1 UJ | | 1 U | | 5 UJ | | 1 UJ | |
| Cyclohexane | | 5 U | | 1 UJ | | 52 J | | 14 J | | 85 J | | 1 UJ | |
| Ethyl benzene | 5 | 5 U | | 1 U | | 130 | | 27 | | 370 | | 1 U | |
| Isopropylbenzene | 5 | 5 U | | 1 U | | 15 | | 2 | | 19 | | 1 U | |
| Methyl cyclohexane | | 5 U | | 1 UJ | | 18 J | | 8.9 | | 60 J | | 1 UJ | |
| Methyl Tertbutyl Ether | | 5 U | | 0.88 J | | 5.3 | | 3 | | 7 | | 1 U | |
| Tetrachloroethene | 5 | 670 | | 27 | | 1 U | | 1 U | | 2.9 J | | 1 U | |
| Toluene | 5 | 5 U | | 0.38 J | | 37 | | 9.8 | | 160 | | 1 U | |
| trans-1,2-Dichloroethene | 5 | 5 U | | 1 UJ | | 1 UJ | | 1 U | | 5 UJ | | 1 UJ | |
| Trichloroethene | 5 | 61 | | 6.6 | | 1 U | | 1 U | | 5 U | | 0.11 J | |
| Vinyl chloride | 2 | 5 U | | 1 U | | 1 U | | 1 U | | 5 U | | 1 U | |
| Xylenes, Total | 5 | 15 U | | 3 U | | 140 | | 27 | | 660 | | 3 U | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

| Parameter | Location Sample Date Sample ID Qc Code Criteria | ATMW-004 5/7/2013 ATMW00412013XX FS | | ATMW-005 5/6/2013 ATMW00512013XX FS | | ATMW-006 5/6/2013 ATMW00612013XX FS | | ATMW-007 5/6/2013 ATMW00712013XX FS | | ATMW-008 5/7/2013 ATMW00812013XX FS | | ATMW-009 5/7/2013 ATMW00912013XX FS | |
|--------------------------|---|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|
| | | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 47 | | 1 U | |
| 1,1,2-Trichloroethane | 1 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,1-Dichloroethane | 5 | 1 U | | 1 U | | 0.15 J | | 1 U | | 1.5 | | 1 U | |
| 1,1-Dichloroethene | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 0.55 J | | 1 U | |
| 1,2-Dichloroethane | 0.6 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| 1,3-Dichlorobenzene | 3 | 1 U | | 1 U | | 0.43 J | | 1 U | | 1 U | | 1 U | |
| 1,4-Dichlorobenzene | 3 | 1 U | | 1 U | | 1.4 | | 1 U | | 1 U | | 1 U | |
| 2-Butanone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| Acetone | 50 | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| Benzene | 1 | 80 | | 1 U | | 0.11 J | | 0.11 J | | 1 U | | 0.13 J | |
| Bromoform | 50 | 1 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 1 U | |
| Bromomethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Carbon disulfide | 60 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chlorodibromomethane | 50 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Chloroform | 7 | 1 U | | 1 U | | 1 U | | 1 U | | 0.12 J | | 1 U | |
| Chloromethane | 5 | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| Cis-1,2-Dichloroethene | 5 | 1 UJ | | 1 UJ | | 1 UJ | | 0.55 J | | 12 J | | 2.4 J | |
| Cyclohexane | | 170 JH | | 1 UJ | | 1 UJ | | 0.63 J | | 1 UJ | | 12 J | |
| Ethyl benzene | 5 | 47 | | 1 U | | 1 U | | 1 U | | 1 U | | 11 | |
| Isopropylbenzene | 5 | 14 | | 1 U | | 0.1 J | | 1 U | | 1 U | | 2.2 | |
| Methyl cyclohexane | | 100 J | | 1 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 3.3 | |
| Methyl Tertbutyl Ether | | 1 U | | 0.14 J | | 1 U | | 3.9 | | 2 | | 3.5 | |
| Tetrachloroethene | 5 | 0.26 J | | 1 U | | 1 U | | 1 U | | 1.5 | | 2.1 | |
| Toluene | 5 | 11 | | 1 U | | 1 U | | 1 U | | 1 U | | 1.5 | |
| trans-1,2-Dichloroethene | 5 | 1 UJ | | 1 UJ | | 0.23 J | | 1 UJ | | 0.13 J | | 1 UJ | |
| Trichloroethene | 5 | 0.81 J | | 1 U | | 1 U | | 1 U | | 33 | | 3 | |
| Vinyl chloride | 2 | 1 U | | 1 U | | 1 U | | 1 U | | 0.58 J | | 1 U | |
| Xylenes, Total | 5 | 13 | | 3 U | | 3 U | | 3 U | | 3 U | | 25 | |

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 2: Monitoring Well and Groundwater Elevation Data

| Site | Location ID | Northing | Easting | Casing Elevation | Measuring Point Elevation | Installation Date | Screen Length | Well Depth (ft BMP) (May 2013) | Depth to Water (BMP) (May 2013) | Water Elevation (May 2013) |
|--------------------|-------------|-----------|-----------|------------------|---------------------------|-------------------|---------------|--------------------------------|---------------------------------|----------------------------|
| Associated Textile | ATMW-001 | 764548.87 | 759502.73 | 856.98 | 856.72 | Unknown | Unknown | 18.9 | 14.82 | 841.90 |
| Associated Textile | ATMW-001R | 764555.81 | 759507.05 | 856.85 | 856.41 | Unknown | Unknown | 19.7 | 14.38 | 842.03 |
| Associated Textile | ATMW-002 | 764589.62 | 759493.77 | 857.04 | 856.41 | Unknown | Unknown | 18.8 | 14.30 | 842.11 |
| Associated Textile | ATMW-003 | 764566.98 | 759541.70 | 856.85 | 856.54 | Unknown | Unknown | 19.9 | 14.61 | 841.93 |
| Associated Textile | ATMW-004 | 764598.80 | 759569.38 | 856.96 | 856.58 | Unknown | Unknown | 17.7 | 14.69 | 841.89 |
| Associated Textile | ATMW-005 | 764600.99 | 759417.90 | 856.02 | 855.59 | Unknown | Unknown | 19.5 | 13.62 | 841.97 |
| Associated Textile | ATMW-006 | 764525.40 | 759423.11 | 856.34 | 855.84 | Unknown | Unknown | 19.0 | 13.88 | 841.96 |
| Associated Textile | ATMW-007 | 764667.29 | 759544.45 | 856.82 | 856.26 | Unknown | Unknown | 19.2 | 14.32 | 841.94 |
| Associated Textile | ATMW-008 | 764596.84 | 759655.03 | 856.41 | 856.10 | Unknown | Unknown | 19.1 | 14.20 | 841.90 |
| Associated Textile | ATMW-009 | 764482.61 | 759530.17 | 856.70 | 856.45 | Unknown | Unknown | 19.5 | 14.61 | 841.84 |
| Diamond Cleaners | GW-002 | 764781.61 | 760041.85 | 855.91 | 855.47 | 6/27/2005 | 10 | 19.3 | 12.91 | 842.56 |
| Diamond Cleaners | GW-013 | 764563.66 | 760228.71 | 854.46 | 854.05 | 6/27/2005 | 10 | NM | NM | NC |
| Diamond Cleaners | GW-014 | 764451.76 | 760160.74 | 854.20 | 853.79 | 6/27/2005 | 10 | 14.8 | 10.63 | 843.16 |
| Diamond Cleaners | MW-001 | 764837.05 | 759991.92 | 855.59 | 854.64 | 10/3/2005 | 10 | 23.5 | 12.10 | 842.54 |
| Diamond Cleaners | MW-002 | 764735.59 | 759865.46 | 855.02 | 854.57 | 10/4/2005 | 10 | 24.1 | 12.22 | 842.35 |
| Diamond Cleaners | MW-003 | 764468.08 | 760027.58 | 854.19 | 853.81 | 10/4/2005 | 10 | 24.0 | 11.45 | 842.36 |
| Diamond Cleaners | MW-004 | 764548.73 | 759920.06 | 854.18 | 853.90 | 10/5/2005 | 10 | 21.2 | 11.58 | 842.32 |
| Diamond Cleaners | MW-006 | 764873.30 | 760175.71 | 852.71 | 852.25 | 7/22/2008 | 10 | 19.5 | 9.44 | 842.81 |
| Diamond Cleaners | MW-007 | 764786.09 | 759925.09 | 855.08 | 854.58 | 7/23/2008 | 10 | 22.0 | 12.10 | 842.48 |
| Diamond Cleaners | MW-008 | 764597.74 | 759983.96 | 854.50 | 853.97 | 7/23/2008 | 10 | 22.0 | 11.49 | 842.48 |
| Diamond Cleaners | MW-009 | 764663.53 | 759674.17 | 854.28 | 853.71 | 7/21/2008 | 10 | 20.8 | 11.80 | 841.91 |
| Diamond Cleaners | MW-010 | 764533.08 | 759834.54 | 854.69 | 854.15 | 7/22/2008 | 10 | 21.7 | 12.35 | 841.80 |
| Diamond Cleaners | MW-011 | 764384.59 | 759471.21 | 856.39 | 855.89 | 7/21/2008 | 10 | 22.0 | 14.41 | 841.48 |
| Diamond Cleaners | MW-012 | 764814.90 | 759919.90 | 855.16 | 854.32 | 8/29/2012 | 10 | 21.3 | 11.97 | 842.35 |
| Diamond Cleaners | MW-013 | 764814.00 | 759915.80 | 855.04 | 854.62 | 8/29/2012 | 5 | 28.8 | 12.29 | 842.33 |
| Diamond Cleaners | MW-014 | 764743.70 | 759961.40 | 855.23 | 854.93 | 8/29/2012 | 10 | 21.5 | 12.50 | 842.43 |
| Diamond Cleaners | MW-015 | 764747.80 | 759959.80 | 855.27 | 854.83 | 8/30/2012 | 5 | 28.9 | 12.40 | 842.43 |
| Diamond Cleaners | MW-016 | 764767.70 | 760022.20 | 855.61 | 855.23 | 8/30/2012 | 10 | 22.0 | 12.69 | 842.54 |
| Diamond Cleaners | MW-017 | 764771.20 | 760020.70 | 855.78 | 855.55 | 8/30/2012 | 5 | 29.2 | 13.07 | 842.48 |
| Diamond Cleaners | MW-018 | 764721.90 | 760001.00 | 855.00 | 854.80 | 9/5/2012 | 10 | 22.0 | 12.34 | 842.46 |
| Diamond Cleaners | MW-019 | 764718.10 | 760002.10 | 854.98 | 854.79 | 9/5/2012 | 5 | 29.1 | 12.15 | 842.64 |
| Diamond Cleaners | MW-020 | 764708.90 | 760050.60 | 855.02 | 854.64 | 9/5/2012 | 10 | 22.0 | 12.15 | 842.49 |
| Diamond Cleaners | MW-021 | 764705.50 | 760051.00 | 854.99 | 864.66 | 9/6/2012 | 5 | 29.4 | 12.16 | 852.50 |
| Diamond Cleaners | MW-022 | 764692.00 | 760102.50 | 854.69 | 854.37 | 9/6/2012 | 10 | 22.0 | 11.83 | 842.54 |
| Diamond Cleaners | MW-023 | 764690.00 | 760100.00 | 854.69 | 854.39 | 9/6/2012 | 5 | 29.6 | 11.95 | 842.44 |

Notes:

Horizontal locations are tied to the New York State Plane Coordinate System using NAD of 1983. Vertical elevations were tied to msl, NAVD of 1988.

BMP - Below Measuring Point

NM = Not Measured.

NC = Not Calculated

Table 3: Analytical Data Summary - Soil

| Location | | ATGW-002A | | ATGW-002A | | ATGW-026A | | ATGW-026A | | ATGW-026A | | ATGW-043A | |
|---------------------------|----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|
| Sample Date | | 5/9/2013 | | 5/9/2013 | | 5/8/2013 | | 5/8/2013 | | 5/8/2013 | | 5/8/2013 | |
| Sample ID | | ATGW002072013XX | | ATGW002132013XX | | ATGW026072013XX | | ATGW026072013XD | | ATGW026122013XX | | ATGW043132013XX | |
| Sample Depth (ft bgs) | | 6-7 | | 12-13 | | 6-7 | | 6-7 | | 11-12 | | 12-13 | |
| Qc Code | | FS | | FS | | FS | | FD | | FS | | FS | |
| Parameter | Criteria | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| Acetic acid, methyl ester | | 0.047 | U | 0.072 | | 0.052 | U | 0.053 | U | 0.052 | U | 0.045 | U |
| Cis-1,2-Dichloroethene | 0.25 | 0.047 | U | 0.067 | U | 0.052 | U | 0.053 | U | 0.052 | U | 0.045 | U |
| Methylene chloride | 0.05 | 0.047 | U | 0.016 | J | 0.012 | J | 0.053 | U | 0.011 | J | 0.045 | U |
| Tetrachloroethene | 1.3 | 0.047 | U | 0.058 | J | 0.052 | U | 0.053 | U | 0.23 | | 0.19 | |
| Toluene | 0.7 | 0.047 | U | 0.028 | J | 0.052 | U | 0.053 | U | 0.052 | U | 0.014 | J |
| Trichloroethene | 0.47 | 0.047 | U | 0.097 | | 0.052 | U | 0.053 | U | 0.052 | U | 0.045 | U |

Notes:

Results in milligrams per kilogram (mg/Kg)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample; FD = Field Duplicate

Qualifiers:

U = Not detected above the reporting limit

J = Estimated value

Criteria = Soil Cleanup Objective for Protection of

Groundwater Use Scenarios - 6 NYCRR Part 375-6.8

Detections are indicated in **BOLD**

Table 3: Analytical Data Summary - Soil

| | | Location Sample Date Sample ID Sample Depth (ft bgs) Qc Code | | ATGW-043A 5/8/2013 ATGW043152013XX 14-15 FS | | ATGW-045A 5/9/2013 ATGW045122013XX 11-12 FS | | ATGW-045A 5/9/2013 ATGW045162013XX 15-16 FS | | ATGW-046A 5/8/2013 ATGW046142013XX 13-14 FS | | ATGW-046A 5/8/2013 ATGW046172013XX 16-17 FS | |
|---------------------------|----------|--|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|
| Parameter | Criteria | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier | Result | Qualifier |
| Acetic acid, methyl ester | | 0.051 | U | 0.043 | U | 0.059 | U | 0.046 | U | 0.054 | U | | |
| Cis-1,2-Dichloroethene | 0.25 | 0.017 | J | 0.043 | U | 0.059 | U | 0.046 | U | 0.054 | U | | |
| Methylene chloride | 0.05 | 0.051 | U | 0.012 | J | 0.059 | U | 0.012 | J | 0.013 | J | | |
| Tetrachloroethene | 1.3 | 0.47 | | 0.049 | | 0.31 | | 0.046 | U | 0.15 | | | |
| Toluene | 0.7 | 0.051 | U | 0.043 | U | 0.059 | U | 0.046 | U | 0.054 | U | | |
| Trichloroethene | 0.47 | 0.051 | U | 0.043 | U | 0.039 | J | 0.046 | U | 0.054 | U | | |

Notes:

Results in milligrams per kilogram (mg/Kg)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample; FD = Field Duplicate

Qualifiers:

U = Not detected above the reporting limit

J = Estimated value

Criteria = Soil Cleanup Objective for Protection of

Groundwater Use Scenarios - 6 NYCRR Part 375-6.8

Detections are indicated in **BOLD**

ATTACHMENT 1

FIELD DATA RECORDS

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
361211209.02

SAMPLE ID
DCMW1212013XX

SAMPLE TIME
13:25

LOCATION ID
MW-12

DATE
5-8-13

START TIME
13:25

END TIME
13:30

SITE NAME/NUMBER
—

PAGE
1 of 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BMP) **11.97** FT FINAL DTW (BMP) **11.99** FT PROT. CASING STICKUP (ACS) **FLUSH** FT TOCTOR DIFFERENCE **-0.85** FT

WELL DEPTH (BMP) **21.25** FT SCREEN LENGTH **10** FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING **—** SEC

WATER COLUMN **9.28** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.0033** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING **—** SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.52** GAL TOTAL VOL. PURGED **2.7** GAL DRAWDOWN/ TOTAL PURGED **—** PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

| TIME | DTW (ft) | PURGE RATE | TEMP. (°C) | SP. CONDUCTANCE | pH (units) | DISS. O ₂ (mg/L) | TURBIDITY (ntu) | REDOX (mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|-------------|----------------------|------------|-----------------|------------------|-----------------|-----------------------------|-------------------|-------------|------------------------|------------|
| 3-5 Minutes | 0.0-0.33 ft Drawdown | (mL/min) | (+/- 3 degrees) | (mS/cm) (+/- 3%) | (+/- 0.1 units) | (+/- 10%) | (+/- 10% <10 ntu) | (+/- 10 mv) | | |
| 12:35 | BEGIN PURGING | 210 mL/min | | | | | | | | |
| 12:40 | 11.99 | 210 | 12.19 | 0.989 | 7.23 | 2.56 | 52.8 | 70.1 | 3' off bottom | |
| 12:45 | 11.99 | 210 | 12.20 | 0.989 | 7.18 | 1.79 | 39.1 | 87.9 | — | |
| 12:55 | 11.99 | 200 | 12.13 | 1.002 | 7.16 | 1.26 | 43.2 | 79.6 | — | |
| 13:00 | 11.99 | 200 | 12.17 | 1.007 | 7.16 | 1.36 | 20.6 | 77.9 | — | |
| 13:10 | 11.99 | 200 | 12.17 | 1.008 | 7.16 | 1.14 | 19.3 | 74.2 | — | |
| 13:13 | 11.99 | 210 | 12.10 | 1.012 | 7.15 | 1.15 | 16.5 | 76.0 | — | 13:13 TIME |
| 13:18 | 11.99 | 200 | 12.07 | 1.016 | 7.16 | 1.11 | 13.5 | 73.5 | — | |
| 13:21 | 11.99 | 230 | 11.95 | 1.021 | 7.16 | 1.04 | 11.9 | 71.3 | — | |
| 13:24 | 11.99 | 230 | 11.97 | 1.020 | 7.16 | 1.02 | 11.3 | 70.9 | — | |
| 13:25 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 1.02 7.2 1.0 11.3 71

TRAINING: 3 SF max (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.006 = 0.006)
pH: nearest tenth (ex. 5.5) = 5.5
DO: nearest tenth (ex. 5.5) = 5.5
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
OUP: 2 SF (4.4 = 4.4, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER: ☒ WATER ☐ OTHER ☐ OTHER **Geopump**

DECON FLUIDS USED: ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HDPE TUBING ☐ OTHER ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLOX BLADDER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☒ WL METER ☒ PID ☒ WQ METER ☒ TURB. METER ☐ PUMP ☐ OTHER ☐ OTHER

FILTERS: ☐ NO ☒ TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8260B | N | ACCL 40C | 3X40ml | Y | — | — |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED: ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED: **2.7**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

MW-12
RENTAL 50'
NO. 1000 LBS
N

Sampler Signature: **Th. J. Joly**

Print Name: **Thomas J. Joly**

Checked By: **R. J. Joly**

Date: **5/22/13**

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3012113209.02

SAMPLE ID
DCMW1313013XX

SAMPLE TIME
14:30

LOCATION ID
MW-13

DATE
5-8-13

START TIME
13:50

END TIME
14:40

SITE NAME/NUMBER
1

PAGE
1 of 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BNP) **12.29** FT FINAL DTW (BNP) **12.31** FT

WELL DEPTH (BNP) **28.8** FT SCREEN LENGTH **5** FT

WATER COLUMN **16.51** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.003** GAL

CALCULATED GAL/VOL **2.71** GAL TOTAL VOL. PURGED **4.9** GAL

PROT. CASING STICKUP (AGS) **FLUSH** FT

PID AMBIENT AIR **0.0** PPM

PID WELL MOUTH **0.0** PPM

DRAWDOWN/ TOTAL PURGED **0.0015**

TOCTOR DIFFERENCE **-0.4** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

WELL INTEGRITY YES NO N/A

CAP ☒ YES ☐ NO ☐ N/A

CASING ☒ YES ☐ NO ☐ N/A

LOCKED ☒ YES ☐ NO ☐ N/A

COLLAR ☒ YES ☐ NO ☐ N/A

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 R Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 1%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------|
| 13:57 | BEGIN PURGING @ 210 mL/min. | | | | | | | | | |
| 14:02 | 12.30 | 210 | 12.37 | 1.223 | 7.06 | 2.50 | 70.6 | 71.2 | 3' up from bottom | |
| 14:08 | 12.31 | 210 | 12.67 | 1.230 | 7.05 | 1.13 | 29.1 | 64.7 | — | |
| 14:13 | 12.31 | 230 | 12.47 | 1.231 | 7.04 | 0.87 | 16.5 | 53.3 | — | A RATE |
| 14:18 | 12.31 | 230 | 12.52 | 1.231 | 7.04 | 0.75 | 11.4 | 43.6 | — | |
| 14:23 | 12.31 | 210 | 12.51 | 1.233 | 7.03 | 0.58 | 8.93 | 39.9 | — | |
| 14:26 | 12.31 | 210 | 12.62 | 1.232 | 7.02 | 0.56 | 8.21 | 38.9 | — | |
| 14:29 | 12.31 | 210 | 12.56 | 1.232 | 7.03 | 0.53 | 6.67 | 38.9 | — | |
| 14:30 | SAMPLE | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 1.23 7.0 0.5 6.7 39

TEMP. (nearest degree) (ex. 10.1 = 10)
COND.: 1 SF max (ex. 1333 = 1330, 0.096 = 0.095)
pH: nearest tenth (ex. 5.51 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TUID: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
QAPP: 1 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATER PUMP ☒ OTHER **Geopump** ☐ OTHER _____

DECON. FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPRODR SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ W. METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

FILTERS NO. **4** TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8260B | N | REL, 4°C | 3X40ml | Y | — | — |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAMINATED ☒ YES ☐ NO

NO. PURGE WITH NO. UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~1.9**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

MW-13

MT. NEDD

LOOKS

N

Sampler Signature: **Th. D. Longley** Print Name: **Thomas D. Longley**

Checked By: **R. J. Longley** Date: **5/22/13**

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
3612112209.02

SAMPLE ID
DC MW 1412013XX

SAMPLE TIME
16:15

LOCATION ID
MW-14

DATE
5-8-13

START TIME
14:57

END TIME
16:20

SITE NAME/NUMBER
—

PAGE
1 OF **1**

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASINO (TOC) ☐ OTHER _____

WELL INTEGRITY

| YES | NO | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INITIAL DTW (BNP) **12.50** FT FINAL DTW (BNP) **12.52** FT PROT. CASING STICKUP (ACS) **FLUSH** FT

WELL DEPTH (BNP) **21.5** FT SCREEN LENGTH (12" dia) **10** FT PID AMBIENT AIR **0.0** PPM

WATER COLUMN **9** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.003** GAL

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.48** GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) **~4.0** GAL

PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING **—** SEC

DRAWDOWN/ TOTAL PURGED **0.00078** PRESSURE TO PUMP **—** PSI

TOC/TOR DIFFERENCE **-0.3** FT REFILL TIMER SETTING **—** SEC

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (ft) 0.0-0.31 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------------------|-------------------------------|---------------------|----------------------------|----------------------------------|----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|------------|
| 15:04 | BEGIN PURGING | C 230 mL/min. | | | | | | | | |
| 15:09 | 12.51 | 230 | 14.32 | 1.474 | 7.12 | 3.00 | 104 | 85.7 | 3' of bottom | |
| 15:18 | 12.51 | 250 | 14.12 | 1.496 | 7.07 | 1.26 | 89.8 | 78.6 | — | 15:18 TIME |
| 15:25 | 12.51 | 250 | 14.06 | 1.444 | 7.06 | 1.12 | 53.5 | 76.8 | — | |
| 15:35 | 12.51 | 250 | 13.98 | 1.500 | 7.07 | 0.76 | 46.7 | 70.9 | — | |
| 15:45 | 12.52 | 250 | 13.96 | 1.509 | 7.06 | 0.64 | 39.9 | 67.0 | — | |
| 15:55 | 12.52 | 250 | 14.01 | 1.500 | 7.06 | 0.55 | 20.7 | 66.1 | — | |
| 16:05 | 12.52 | 240 | 14.13 | 1.504 | 7.05 | 0.49 | 17.7 | 62.8 | — | |
| 16:08 | 12.52 | 240 | 13.99 | 1.511 | 7.05 | 0.48 | 12.5 | 65.5 | — | |
| 16:11 | 12.52 | 240 | 13.93 | 1.514 | 7.05 | 0.45 | 14.0 | 64.0 | — | |
| 16:15 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

14 1.51 7.1 0.5 14.0 64

TEMP. (nearest degree) (ex. 10.1 = 10)
COND. (3 SF max) (ex. 1333 = 1330, 0.005 = 0.006)
pH (nearest tenth) (ex. 5.51 = 5.5)
DO (nearest tenth) (ex. 3.51 = 3.5)
TURB. (3 SF max, nearest tenth) (ex. 6.15 = 6.2, 101 = 101)
DRT: (3 SF) (4.1 = 4.1, 121 = 120)

EQUIPMENT DOCUMENTATION

| TYPE OF PUMP | DECON FLUIDS USED | TUBING/PUMP/BLADDER MATERIALS | EQUIPMENT USED |
|---|--|--|--|
| <input checked="" type="checkbox"/> PERISTALTIC | <input checked="" type="checkbox"/> LIQUINOX | <input checked="" type="checkbox"/> SILICON TUBING | <input checked="" type="checkbox"/> WL METER |
| <input type="checkbox"/> SUBMERSIBLE | <input type="checkbox"/> DEIONIZED WATER | <input type="checkbox"/> TEFLON TUBING | <input type="checkbox"/> PID |
| <input type="checkbox"/> ULADDER | <input type="checkbox"/> TREATABLE WATER | <input type="checkbox"/> TEFLOX LINED TUBING | <input type="checkbox"/> WQ METER |
| <input type="checkbox"/> WATERBURY | <input type="checkbox"/> NITRIC ACID | <input type="checkbox"/> HDPE TUBING | <input type="checkbox"/> TURB. METER |
| <input type="checkbox"/> OTHER | <input type="checkbox"/> HEXANE | <input type="checkbox"/> LDPE TUBING | <input type="checkbox"/> PUMP |
| <input type="checkbox"/> OTHER | <input type="checkbox"/> METHANOL | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER |
| <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER | <input type="checkbox"/> FILTERS |

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8360 B | N | HCL 4°C | 3X40 mL | Y | — | — |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |

PURGE OBSERVATIONS

DIAPHRAGM WATER CONTAINERIZED ☒ YES ☐ NO

NO DIAPHRAGM METHOD UTILIZED ☐ YES ☒ NO

NEEDLE OR BALL VALVE GENERATED **~4.0**

If you purged approximately 1 sampling volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

N ↑

MT. NDBD 6-9-13

Sampler Signature: *Th. D. Longley* Print Name: **Thomas D. Longley**

Checked By: *R. J. G. J.* Date: **5/22/13**

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311 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMW1512013XX

SAMPLE TIME
7:15

LOCATION ID
MW-15

DATE
5-8-13

START TIME
16:20

END TIME
16:23

SITE NAME/NUMBER
—

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASINO (TOC) ☐ OTHER _____

INITIAL DTW (BMP) **12.40** FT FINAL DTW (BMP) **12.61** FT PROT. CASING STICKUP (AGS) **FLUSH** FT

WELL DEPTH (BMP) **28.9** FT SCREEN LENGTH (24-28) **5** FT PID AMBIENT AIR **0.0** PPM

WATER COLUMN **16.5** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.034** GAL

CALCULATED GALVOL **2.7** GAL TOTAL VOL. PURGED **~3.6** GAL DRAWDOWN/ TOTAL PURGED **—**

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

WELL INTEGRITY YES NO N/A

CAP ☒ YES ☐ NO ☐ N/A

CASING LOCKED ☒ YES ☐ NO ☐ N/A

COLLAR ☒ YES ☐ NO ☐ N/A

TOC/TOR DIFFERENCE **-0.45** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

| FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP) | | | | | | | | | | |
|--|-------------------------------|---------------------|----------------------------|----------------------------------|----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|----------|
| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
| 16:39 | BEGIN PURGING | 300 mL/min | | | | | | | | |
| 16:36 | 12.62 | 300 | 14.36 | 1.216 | 7.31 | 5.00 | 487 | 60.1 | 3' ft of bottom | |
| 16:40 | 12.61 | 300 | 14.40 | 1.217 | 7.29 | 1.32 | 299 | 1.0 | — | |
| 16:50 | 12.61 | 300 | 14.45 | 1.224 | 7.27 | 0.66 | 99.8 | -57.7 | — | |
| 17:00 | 12.61 | 300 | 14.42 | 1.224 | 7.27 | 0.51 | 26.8 | -73.2 | — | |
| 17:05 | 12.61 | 300 | 14.49 | 1.224 | 7.26 | 0.45 | 17.2 | -77.4 | — | |
| 17:08 | 12.61 | 300 | 14.42 | 1.223 | 7.26 | 0.44 | 16.8 | -79.3 | — | |
| 17:11 | 12.61 | 300 | 14.40 | 1.224 | 7.26 | 0.42 | 12.0 | -78.3 | — | |
| 17:15 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

14 1.22 7.3 0.4 12.0 -78

TEMP. sensor degree (ex. 0.1 = 10)
COND: 1 SF max (ex. 1333 = 1330, 0.006 = 0.006)
pH: nearest tenth (ex. 5.51 = 5.5)
DO: nearest tenth (ex. 1.51 = 1.5)
TURB: 1 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (45.1 = 45, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER ☒ OTHER **Geopump**

DECON FLUIDS USED ☒ LIQUINOX ☐ DRIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOW TUBING ☐ TEFLOW LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPRODS SCREEN ☐ TEFLOW BLADDER ☐ OTHER

EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8260 B | N | HCL, 4% LDP | 3X40mL | Y | — | — |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED **~3.6**

NUMBER OF GALLONS UTILIZED ☒ YES ☐ NO

If you purged approximately 1 sampling volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Barjeon St.

MT. NEBO LODGE

MW-15

Cloudy purge water

Sampler Signature: **Th. D. Longley** Print Name: **Thomas D. Longley**

Checked By: **B-29-2** Date: **5/22**

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FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122 09.02

SAMPLE ID
DCMW1612013XX

SAMPLE TIME
838

LOCATION ID
MW-16

DATE
5/9/13

START TIME
757

END TIME
838

SITE NAME/NUMBER
—

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☒ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BMP) **12.69** FT FINAL DTW (BMP) **12.76** FT PROT. CASING STICKUP (AGS) **Flush** FT

WELL DEPTH (BMP) **22.0** FT SCREEN LENGTH **10** FT PID AMBIENT AIR **—** PPM

WATER COLUMN **9.31** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.011** GAL PID WELL MOUTH **—** PPM

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **1.5** GAL TOTAL VOL. PURGED **~3.1** GAL DRAWDOWN/ TOTAL PURGED **0.0035**

WELL INTEGRITY ☒ YES ☐ NO ☐ N/A

CAP ☒ YES ☐ NO ☐ N/A

CASING ☒ YES ☐ NO ☐ N/A

LOCKED ☒ YES ☐ NO ☐ N/A

COLLAR ☒ YES ☐ NO ☐ N/A

TOC/TOR DIFFERENCE **—** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (± 3 degrees) | SP. CONDUCTANCE (mS/cm) (± 3%) | pH (units) (± 0.1 units) | DISS. O ₂ (mg/L) (± 10%) | TURBIDITY (ntu) (± 10% <10 ntu) | REDOX (mv) (± 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-----------------------------|--------------------------------------|-----------------------------|--|------------------------------------|-------------------------|------------------------------|----------|
| 757 | BEGIN PURGING | | | | | | | | | |
| 802 | 12.76 | 300 | 12.99 | 0.982 | 7.10 | 7.47 | 63.95 | 98.8 | 17.0 | |
| 807 | 12.76 | 300 | 12.65 | 0.975 | 7.02 | 6.28 | 58.30 | 97.3 | 17.0 | |
| 812 | 12.76 | 300 | 12.48 | 0.992 | 6.99 | 6.31 | 43.02 | 92.0 | 17.0 | |
| 817 | 12.76 | 300 | 12.44 | 1.005 | 6.97 | 5.70 | 28.61 | 83.8 | 17.0 | |
| 822 | 12.76 | 300 | 12.44 | 1.012 | 6.97 | 5.40 | 18.41 | 82.4 | 17.0 | |
| 827 | 12.76 | 300 | 12.45 | 1.014 | 6.97 | 5.25 | 16.72 | 79.2 | 17.0 | |
| 830 | 12.76 | 300 | 12.43 | 1.017 | 6.97 | 5.20 | 10.54 | 77.9 | 17.0 | |
| 833 | 12.76 | 300 | 12.43 | 1.017 | 6.98 | 5.18 | 9.93 | 77.3 | 17.0 | |
| 836 | 12.76 | 300 | 12.43 | 1.018 | 6.98 | 5.11 | 8.89 | 76.9 | 17.0 | |
| | Collect Sample @ 838 8260 | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

12 1.02 7.0 5.1 8.9 77

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 333.1 = 333, 0.696 = 0.696)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 10.1 = 10.1)
ORP: 3 SF (44.1 = 44, 12.1 = 12)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER ☐

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐

EQUIPMENT USED ☒ WL METER ☒ PID ☒ WQ METER ☒ TURB. METER ☒ PUMP ☒ OTHER ☐ FILTERS ☐ NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|---|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOL | 8260 | N | HCL | 3x40ml | ✓ | N | — |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **3.1**

If yes, purge approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Sketch showing location of MW-16 relative to Mt. Neboloke. A north arrow points upwards.

Sampler Signature: *R. J. J.*

Print Name: *Ryan Jolley*

Checked By: *TDL*

Date: *5-21-13*

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FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

| PROJECT NAME Diamond Cleaners PROJECT NUMBER 3612-112209.02 SAMPLE ID DC MW 17 1013 XX SAMPLE TIME 0820 | | | | LOCATION ID MW-17 DATE 5-9-13 START TIME 0715 END TIME 0820 SITE NAME/NUMBER _____ PAGE 1 OF 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------|--|--|---|--|-----------------|------------------|--------------|--------------------------|------|-------|---|----------|--------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| WELL DIAMETER (INCHES) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> OTHER _____ TUBING ID (INCHES) <input type="checkbox"/> 1/8 <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8 <input type="checkbox"/> OTHER _____ MEASUREMENT POINT (MP) <input checked="" type="checkbox"/> TOP OF RISER (TOR) <input type="checkbox"/> TOP OF CASING (TOC) <input type="checkbox"/> OTHER _____ | | | | WELL INTEGRITY YES NO N/A CAP <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CASING <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LOCKED <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> COLLAR <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INITIAL DTW (BMP) 13.07 FT WELL DEPTH (BMP) 29.2 FT WATER COLUMN 16.13 FT CALCULATED GAL/VOL 2.64 GAL <small>(column X well diameter squared X 0.041)</small> | | FINAL DTW (BMP) 13.16 FT SCREEN LENGTH (24' 3") 5 FT DRAWDOWN VOLUME 0.015 GAL <small>(initial DTW - final DTW X well diam. squared X 0.041)</small> TOTAL VOL. PURGED 2.3 GAL <small>(mL per minute X total minutes X 0.00016 gal/mL)</small> | | PROT. CASING STICKUP (ACS) FLUSH FT PID AMBIENT AIR 0.0 PPM PID WELL MOUTH 0.0 PPM DRAWDOWN/ TOTAL PURGED 0.0064 TOC/TOR DIFFERENCE -0.27 FT REFILL TIMER SETTING _____ SEC DISCHARGE TIMER SETTING _____ SEC PRESSURE TO PUMP _____ PSI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME 3-5 Minutes | DTW (ft) 0.0-0.11 ft Downdraw | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0737 | BEGIN PURGING @ 250 mL/min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0744 | 13.15 | 250 | 13.45 | 1.161 | 7.05 | 2.66 | 41.4 | 221.9 | 3' up off | Bottom | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0750 | 13.16 | 250 | 13.53 | 1.189 | 7.03 | 0.90 | 23.1 | 205.0 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0800 | 13.16 | 250 | 13.46 | 1.202 | 7.01 | 0.51 | 9.68 | 179.8 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0805 | 13.16 | 250 | 13.44 | 1.210 | 7.01 | 0.45 | 7.31 | 171.3 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0810 | 13.16 | 300 | 13.42 | 1.212 | 7.01 | 0.51 | 6.69 | 164.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0813 | 13.16 | 300 | 13.42 | 1.214 | 7.02 | 0.49 | 5.21 | 160.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0816 | 13.16 | 300 | 13.42 | 1.215 | 7.01 | 0.50 | 8.91 | 158.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0820 | Sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF)) 13 1.22 7.0 0.5 8.7 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT DOCUMENTATION <table border="0" style="width:100%;"> <tr> <td style="vertical-align: top;"> TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER Gas pump </td> <td style="vertical-align: top;"> DECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINON <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER </td> <td style="vertical-align: top;"> TUBING PUMP/BLADDER MATERIALS <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input checked="" type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER </td> <td style="vertical-align: top;"> EQUIPMENT USED <input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER </td> </tr> </table> | | | | | | | | | | | TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER Gas pump | DECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINON <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER | TUBING PUMP/BLADDER MATERIALS <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input checked="" type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER | EQUIPMENT USED <input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER Gas pump | DECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINON <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER | TUBING PUMP/BLADDER MATERIALS <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input checked="" type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER | EQUIPMENT USED <input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANALYTICAL PARAMETERS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PARAMETER</th> <th>METHOD NUMBER</th> <th>FIELD FILTERED</th> <th>PRESERVATION METHOD</th> <th>VOLUME REQUIRED</th> <th>SAMPLE COLLECTED</th> <th>QC COLLECTED</th> <th>SAMPLE BOTTLE ID NUMBERS</th> </tr> </thead> <tbody> <tr> <td>VOCs</td> <td>8260B</td> <td>N</td> <td>HCL, 400</td> <td>3x40ml</td> <td>Y</td> <td>-</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | | | | | | | | | | | PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS | VOCs | 8260B | N | HCL, 400 | 3x40ml | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VOCs | 8260B | N | HCL, 400 | 3x40ml | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PURGE OBSERVATIONS PURGE WATER CONTAMINIZED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO NO PURGE METHOD UTILIZED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO NUMBER OF GALLONS GENERATED 2.33 GAL If purg. purged approximately 1 standing volume prior to sampling or _____ mL for this sample location. | | | | SKETCH/NOTES Dayani ST. MT. NEW LODGE MW-17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Signature: <i>Thomas D. Longley</i> Checked By: <i>R22022</i> Print Name: Thomas D. Longley Date: 5/22/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3617112209-02

SAMPLE ID
DCMW1812013 XX

SAMPLE TIME
0940

LOCATION ID
MW-18

DATE
5-9-13

START TIME
0830

END TIME
0945

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BNP) 12.34 FT FINAL DTW (BNP) 12.46 FT PROT. CASING STICKUP (AGS) 11.34 FT TOC/TOR DIFFERENCE -0.25 FT

WELL DEPTH (BNP) 22.0 FT SCREEN LENGTH (BNP) 10' FT PID AMBIENT AIR 0.0 PPM REFILL TIMER SETTING SEC

WATER COLUMN 9.66 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 19.020 GAL PID WELL MOUTH 0.0 PPM DISCHARGE TIMER SETTING SEC

CALCULATED GALVOL 1.58 GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) 25 GAL DRAWDOWN/ TOTAL PURGED 0.004 PSI PRESSURE TO PUMP PSI

| FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP) | | | | | | | | | | |
|--|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|------------|
| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
| 0836 | BEGIN PURGING @ 300 mL/min | | | | | | | | | |
| 0845 | 12.46 | 300 | 12.57 | 0.839 | 7.10 | 5.00 | 117 | 142.2 | 3' off | of bottom |
| 0855 | 12.45 | 300 | 12.46 | 0.870 | 7.07 | 3.81 | 64.4 | 138.2 | — | |
| 0905 | 12.46 | 300 | 12.46 | 0.906 | 7.06 | 3.13 | 50.5 | 133.8 | — | |
| 0915 | 12.46 | 300 | 12.50 | 0.941 | 7.07 | 2.10 | 34.5 | 126.8 | — | |
| 0925 | 12.46 | 300 | 12.51 | 0.946 | 7.07 | 1.34 | 31.4 | 123.8 | — | |
| 0938 | 12.46 | 300 | 12.55 | 0.949 | 7.07 | 1.21 | 23.8 | 122.6 | — | |
| 0935 | 12.46 | 300 | 12.52 | 0.957 | 7.07 | 1.00 | 17.2 | 119.6 | | 09:35 TIME |
| 0938 | 12.46 | 300 | 12.53 | 0.960 | 7.07 | 0.95 | 20.0 | 120.2 | | |
| 0940 | Sample | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 0.960 7.1 1.0 20.0 120

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 333) = 333, 0.696 = 0.696
pH: nearest tenth (ex. 5.55 = 5.6)
DO: nearest tenth (ex. 2.51 = 2.5)
TURB: 3 SF max, nearest tenth (5.19 = 5.2, 101 = 101)
ORP: 3 SF (4.1 = 4.1, 121 = 120)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER/OTHER Geopure

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPRODS SCREEN ☐ TEFLOX BLADDER ☐ OTHER

EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER

FILTERS NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <input checked="" type="checkbox"/> VOCs | <u>826013</u> | <u>N</u> | <u>HCL 4°C</u> | <u>3x40mL</u> | <u>yes</u> | <u> </u> | <u> </u> |
| <input type="checkbox"/> <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <input type="checkbox"/> <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <input type="checkbox"/> <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <input type="checkbox"/> <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO PURGE MITHON UTILIZED ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED 25 GAL.

If yes, purged approximately 1 standing volume prior to sampling or gal. for this sample location.

SKETCH/NOTES

Begin

MW-18

Former D.C. Bldg.

Sampler Signature: Th. D. Longley Print Name: Thomas D. Longley

Checked By: R-2920 Date: 5/22/13

MACTEC
511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

PROJECT NAME

Diamond Cleaners

LOCATION ID

MW-19

DATE

5-9-13

PROJECT NUMBER

3612112209.02

START TIME

0948

END TIME

SAMPLE ID

DCMW1912013XX

SAMPLE TIME

13:20

SITE NAME/NUMBER

PAGE

1 OF

WELL DIAMETER (INCHES)

☐ 1
☒ 2
☐ 4
☐ 6
☐ 8
☐ OTHER

TUBING ID (INCHES)

☐ 1/8
☒ 1/4
☐ 3/8
☐ 1/2
☐ 5/8
☐ OTHER

MEASUREMENT POINT (MP)

☒ TOP OF RISER (TOR)
☐ TOP OF CASING (TOC)
☐ OTHER

INITIAL DTW (BMP)

12.15 FT

FINAL DTW (BMP)

17.65 FT

PROT. CASING STICKUP (AGS)

Flush FT

TOC/TOR DIFFERENCE

-0.3 FT

WELL DEPTH (BMP)

29.1 FT

SCREEN LENGTH

(24'-31') 5' FT

PID AMBIENT AIR

0.0 PPM

REFILL TIMER SETTING

SEC

WATER COLUMN

16.95 FT

DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041)

GAL

PID WELL MOUTH

0.0 PPM

DISCHARGE TIMER SETTING

SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041)

2.8 GAL

TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)

GAL

DRAWDOWN/ TOTAL PURGED

PRESSURE TO PUMP

PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (F1) 0.0-0.33 R Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (unit/s) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS | |
|------------------|------------------------------|--|----------------------------|----------------------------------|-----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|------------------|--|
| 0955 | BEGIN PURGING | Q 320 mL/min. | | | | | | | | | |
| 10:00 | 15.00 | 320 | 13.44 | 0.586 | 10.45 | 2.24 | 72.3 | 71.7 | 3' up | from bottom | |
| 10:05 | 16.45 | 210 | 13.35 | 0.887 | 10.47 | 2.18 | 76.8 | 66.3 | - | A speed to purge | |
| 10:08 | 17.17 | 200 | 13.40 | 0.882 | 10.45 | 2.07 | 66.0 | 62.0 | - | | |
| 10:13 | 18.30 | 200 | 13.42 | 0.881 | 10.45 | 2.00 | 61.0 | 59.0 | - | | |
| 10:18 | 19.55 | 200 | 13.52 | 0.874 | 10.41 | 1.94 | 62.5 | 54.3 | - | | |
| 10:28 | TDL | | | | | | | | | 10:28 TIME | |
| 10:23 | 20.85 | No recharge occurring in this well, so pump off & sample the rebound water today - | | | | | | | | | |
| | | Purged to ~ 24' bgs. & turn off pump 10:29 | | | | | | | | | |
| 10:28:30 | 23.7 | | | | | | | | | | |
| 13:20 | 17.65 | Return to collect sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ex. 10.1) = 10

COND: 3 SF max (ex. 1333 = 1330, 0.026 = 0.026)

pH: nearest tenth (ex. 5.53 = 5.5)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 1 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

DRP: 2 SF (41.1 = 42, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATERA
☒ OTHER Gearing pump

DECON FLUIDS USED

☒ LIQUINON
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP BLADDER MATERIALS

☒ SILICON TUBING
☐ TEFLON TUBING
☐ TEFLON LINED TUBING
☐ HOPE TUBING
☒ LOPE TUBING
☐ OTHER

S. STEEL PUMP MATERIAL

☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ TEFLON BLADDER
☐ OTHER

EQUIPMENT USED

☒ VL METER
☐ PID
☒ WQ METER
☒ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 8260B | N | HCL, 4°C | 3x40mL | 3 Y | | |
| | | | | | | | |
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PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED

☒ YES
☐ NO

NO. PURGE METHOD UTILIZED

☐ YES
☒ NO

NUMBER OF GALLONS GENERATED

If purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SAMPLER SIGNATURE:

T.D.L.

PRINT NAME:

RYAN JORREY

CHECKED BY:

T.D.L.

DATE:

5-21-13

SKETCH/NOTES

BENJAMIN ST.

MW-19

Former D.C. Bldg.

N

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.

LOW FLOW GROUNDWATER SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

1.13 \angle
1.25 \angle

20.85 @ 10:23

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
312112309.02

SAMPLE ID
DCMW 301203XX

SAMPLE TIME
11:20

LOCATION ID
MW-20

DATE
5-9-13

START TIME
10:40

END TIME

SITE NAME/NUMBER

PAGE
1 OF **1**

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BMP) **12.15** FT FINAL DTW (BMP) **12.15** FT

WELL DEPTH (BMP) **22.0** FT SCREEN LENGTH (BMP) **10** FT

WATER COLUMN **9.85** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **—** GAL

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **1.6** GAL TOTAL VOL. PURGED **~2.5** GAL

PROT. CASING STICKUP (ACS) **PURSH** FT

PID AMBIENT AIR **0.0** PPM

PID WELL MOUTH **0.0** PPM

DRAWDOWN/ TOTAL PURGED **—**

TOC/TOR DIFFERENCE **-0.4** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

WELL INTEGRITY YES NO N/A

CAP ☒ YES ☐ NO ☐ N/A

CASING LOCKED ☒ YES ☐ NO ☐ N/A

COLLAR ☒ YES ☐ NO ☐ N/A

| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------------------|----------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|----------|
| 10:44 | | BEGIN PURGING @ 200 mL/min. | | | | | | | | |
| 10:49 | 12.15 | 200 | 12.73 | 1.196 | 7.31 | 2.00 | 95.5 | 10.7 | 3' off bottom | |
| 10:54 | | pump up purge rate to 280 mL/min | | | | | | | | |
| 10:53 | 12.15 | 300 | 12.34 | 1.200 | 7.20 | 0.56 | 17.6 | -7.2 | — | |
| 10:58 | 12.15 | 300 | 12.24 | 1.202 | 7.20 | 0.33 | 13.5 | -14.5 | — | |
| 11:08 | 12.15 | 300 | 12.41 | 1.203 | 7.20 | 0.21 | 13.2 | -22.3 | — | |
| 11:11 | 12.15 | 300 | 12.52 | 1.205 | 7.20 | 0.21 | 10.3 | -22.7 | — | |
| 11:16 | 12.15 | 300 | 12.59 | 1.206 | 7.20 | 0.21 | 10.7 | -23 | — | |
| 11:19 | 12.15 | 300 | 12.62 | 1.206 | 7.20 | 0.19 | 10.4 | -23.4 | — | |
| 11:20 | | Sample | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

PUMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 2333) = 2330, 0.005 = 0.006
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TEMP: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
COND: 3 SF (44.1 = 44.1, 191 = 191)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER ☒ OTHER **Geopure**

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPHOS SCREEN ☐ TEFLOX BLADDER ☐ OTHER

EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8260B | N | HCL, 4°C | 3X 40ml | 4 | — | — |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |
| <input type="checkbox"/> | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PIPES/MPHON UTILIZED ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED **~2.5 GAL.**

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Benjamin ST.

N

Former of Blagg.

MW 20

Sampler Signature **J. D. Longley** Print Name: **Thomas D. Longley**

Checked By **R. J. Longley** Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122.09.02

SAMPLE ID
DCMW2112013XX

SAMPLE TIME
12:20

LOCATION ID
MW-21

DATE
5-9-13

START TIME
11:26

END TIME

SITE NAME/NUMBER

PAGE
1 OF **1**

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

| YES | NO | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INITIAL DTW (BMP) **12.16** FT FINAL DTW (BMP) **12.18** FT

WELL DEPTH (BMP) **29.4** FT SCREEN LENGTH **5** FT

WATER COLUMN **17.24** FT

CALCULATED OAL VOL **2.8** GAL

DRAWDOWN VOLUME **0.003** GAL

TOTAL VOL PURGED **~3.0** GAL

PROT. CASING STICKUP (ACS) **FLUSH** FT

PID AMBIENT AIR **0.0** PPM

PID WELL MOUTH **0.0** PPM

DRAWDOWN/ TOTAL PURGED

TOC/TOR DIFFERENCE **-0.35** FT

REFILL TIMER SETTING ☒ SEC

DISCHARGE TIMER SETTING ☒ SEC

PRESSURE TO PUMP ☒ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAPP)

| TIME | DTW (F-I) | PURGE RATE | TEMP. (°C) | SP. CONDUCTANCE | pH (units) | DISS. O ₂ (mg/L) | TURBIDITY (ntu) | REDOX (mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|-------------|-----------------------|------------|-----------------|------------------|-----------------|-----------------------------|-------------------|-------------|------------------------|----------|
| 3-5 Minutes | 0.0-0.33 ft. Drawdown | (mL/min) | (+/- 3 degrees) | (µS/cm) (+/- 3%) | (+/- 0.1 units) | (+/- 10%) | (+/- 10% <10 ntu) | (+/- 10 mv) | | |
| 11:32 | BEGIN PURGING | 260 | 13.27 | 2.637 | 7.13 | 3.00 | 25.6 | 614.3 | 4' off of bottom | |
| 11:43 | 12.18 | 260 | 13.25 | 2.546 | 7.13 | 0.45 | 15.5 | 614.9 | | |
| 11:53 | 12.18 | 260 | 13.09 | 2.654 | 7.11 | 0.31 | 11.8 | 625.9 | | |
| 12:03 | 12.18 | 260 | 13.14 | 2.625 | 7.11 | 0.28 | 7.21 | 630.5 | | |
| 12:08 | 12.18 | 260 | 13.07 | 2.601 | 7.12 | 0.25 | 5.99 | 635.8 | | |
| 12:13 | 12.18 | 260 | 13.08 | 2.599 | 7.11 | 0.58 | 4.72 | 638.0 | | |
| 12:16 | 12.18 | 260 | | | | | | | | |
| 12:20 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 2.60 7.1 0.6 4.72 640

TEST: 1000000 degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3.33 = 3.33, 0.006 = 0.006)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TEMP: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
PUMP: 7 SF (4.3 = 4.3, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER ☒ OTHER **Geopump**

DECON FLUIDS USED ☒ LIQUINOX ☐ OXONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLOX BLADDER ☐ OTHER ☐ OTHER

EQUIPMENT USED ☒ WL. METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. ☒ TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 620P | N | HCL, 4°C | 3x40ml | Y | Y | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED **~3.0GAL**

If you purge approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

BENTONITE

5'

Former DC Bladder

MW-21

Sampler Signature **J. D. Lyle** Print Name: **Thomas D. Lyle**

Checked By **TS** Date: **5/22/13**

MACTEC Deep purple to development water

511 Congress Street, Portland Maine 04101

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
DCMW2212013XX 3612/12209.02

SAMPLE ID
DCMW2212013XX

SAMPLE TIME
1307

LOCATION ID
MW-22

DATE
5/9/13

START TIME
1223

END TIME
1307

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BMP) **11.83** FT FINAL DTW (BMP) **11.90** FT PROT. CASING STICKUP (AGS) **FLUSH** FT TOC/TOR DIFFERENCE **---** FT

WELL DEPTH (BMP) **22** FT SCREEN LENGTH **10** FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING **---** SEC

WATER COLUMN **10.17** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.011** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING **---** SEC

CALCULATED GAL/VOL **1.67** GAL TOTAL VOL. PURGED **~2.8** GAL DRAWDOWN/ TOTAL PURGED **0.0039** PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

| TIME | DTW (F1) | PURGE RATE | TEMP. (°C) | SP. CONDUCTANCE | pH (units) | DISS. O ₂ (mg/L) | TURBIDITY (ntu) | REDOX (mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------------------------------|----------------------|------------|-----------------|------------------|-----------------|-----------------------------|-------------------|-------------|------------------------|----------|
| 3-5 Minutes | 0.0-0.33 ft Drawdown | (mL/min) | (+/- 3 degrees) | (mS/cm) (+/- 3%) | (+/- 0.1 units) | (+/- 10%) | (+/- 10% <10 ntu) | (+/- 10 mv) | | |
| 1223 | BEGIN PURGING | | | | | | | | | |
| 1228 | 11.89 | 250 | 12.29 | 1.194 | 6.83 | 0.75 | 11.78 | 32.6 | 17.0 | |
| 1233 | 11.89 | 250 | 12.10 | 1.172 | 6.77 | 0.57 | 6.05 | 34.6 | 17.0 | |
| 1238 | 11.90 | 250 | 12.00 | 1.067 | 6.77 | 1.07 | 4.52 | 37.9 | 17.0 | |
| 1243 | 11.90 | 250 | 11.78 | 1.023 | 6.80 | 1.51 | 1.53 | 35.8 | 17.0 | |
| 1248 | 11.90 | 250 | 11.91 | 1.009 | 6.77 | 2.10 | 2.11 | 38.6 | 17.0 | |
| 1253 | 11.90 | 250 | 11.46 | 0.996 | 6.79 | 1.99 | 1.57 | 42.6 | 17.0 | |
| 1256 | 11.90 | 250 | 11.27 | 0.997 | 6.80 | 1.77 | 1.48 | 40.6 | 17.0 | |
| 1259 | 11.90 | 250 | 11.29 | 0.989 | 6.78 | 1.60 | 1.17 | 44.1 | 17.0 | |
| 1302 | 11.90 | 250 | 11.53 | 0.985 | 6.80 | 1.62 | 1.50 | 45.5 | 17.0 | |
| 1305 | 11.90 | 250 | 11.50 | 0.986 | 6.82 | 1.58 | 0.90 | 42.6 | 17.0 | |
| Collect Sample @ 1307 | | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 0.986 6.8 1.6 0.9 43

TEMP: nearest degree (ex. 10.1 = 10)
COND: 1 SF max (ex. 3333 = 3330, 0.09% = 0.09%)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 3 SF (4.1 = 4.1, 101 = 101)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER/A ☐ OTHER ☐ OTHER

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ OTHER

NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> VOC | 8260 | N | HCC | 3x40mL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~2.8**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Farmer D.C. Bldg.

49 MW-22

Later 5T.

N

Sampler Signature: **RYAN JORREY**

Print Name: **RYAN JORREY**

Checked By: **TDL**

Date: **5-21-13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMW2312013XX

SAMPLE TIME
14:10

LOCATION ID
MW-23

DATE
5-9-13

START TIME
12:50

END TIME
14:20

SITE NAME/NUMBER

PAGE
1 OF **1**

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

INITIAL DTW (BNP) **11.95** FT FINAL DTW (BNP) **20.00** FT PROT. CASING STICKUP (ACS) **FLUSH** FT

WELL DEPTH (BNP) **29.6** FT SCREEN LENGTH (BNP) **5** FT PID AMBIENT AIR **0.6** PPM

WATER COLUMN **17.65** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.0** PPM

CALCULATED GAL/VOL **2.9** GAL TOTAL VOL. PURGED **0.0** GAL

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

TOC/TOR DIFFERENCE **-0.3** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 R Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|--|--|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|-------------------------------------|
| 13:01 | BEGIN PURGING | 220 mL/min | | | | | | | | |
| 13:10 | 14.75 | 220 | 12.46 | 0.843 | 7.14 | 2.40 | 36.8 | 575.0 | | |
| 13:15 | 16.20 | 220 | 12.44 | 0.823 | 7.12 | 1.63 | 34.1 | 562.9 | | Δ purge rate |
| | Well does not recharge - turn up pump after seeing drop at lowest pump setting; will sample the recharge after it comes back | | | | | | | | | |
| 13:28 | 20.4 | water still drops @ 220 mL/min | | | | | | | | purge rate: 180 mL/min, still drops |
| 13:33 | purge to 23.7 | B.T.O.R. - will let rebound then sample. | | | | | | | | |
| 14:10 | Collect Sample | | | | | | | | | |
| 14:10 | 20.00 | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ex. 10.1 = 10)
COND: 1 SF max (ex. 233 = 230, 0.696 = 0.695)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 5.51 = 5.5)
TURB: 1 SF max, nearest tenth (5.19 = 5.2, 101 = 101)
ORP: 1 SF (44.1 = 44, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ DIAPHRAGMATIC ☐ BLADDER

DECONTAMINANTS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ QDOPROB SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

FILTERS NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 8260B | N | Hcl, 4°C | 3X40mL | Y | — | — |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED _____

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Sketch/Notes area with handwritten notes: "Purged D.C. Bladder", "Like ST", "N", "MW-23".

Sampler Signature: *Th. D. Longley* Print Name: **Thomas D. Longley**

Checked By: *R. J. [Signature]* Date: **5/22/13**

PROJECT NAME

PROJECT NUMBER

SAMPLE ID

LOCATION ID

START TIME

SITE NAME/NUMBER

DATE

END TIME

PAGE

WELL DIAMETER (INCHES)

TUBING ID (INCHES)

MEASUREMENT POINT (MIP)

INITIAL DTW (BMP)

WELL DEPTH (BMP)

WATER COLUMN

CALCULATED GAL/VOL

FINAL DTW (BMP)

SCREEN LENGTH

DRAWDOWN VOLUME

TOTAL VOL. PURGED

PROT. CASING STICKUP (ACS)

PID AMBIENT AIR

PID WELL MOUTH

DRAWDOWN/ TOTAL PURGED

WELL INTEGRITY

CAP

CASING

LOCKED

COLLAR

TOC/TOR DIFFERENCE

REFILL TIMER SETTING

DISCHARGE TIMER SETTING

PRESSURE TO PUMP

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME | DTW (F1) | PURGERATE | TEMP. (°C) | SP. CONDUCTANCE | pH (units) | DISS. O ₂ (mg/L) | TURBIDITY (ntu) | REDOX (mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------|---------------|-----------|------------|-----------------|------------|-----------------------------|-----------------|------------|------------------------|----------------|
| 1620 | BEGIN PURGING | | | | | | | | | |
| 1625 | 12.93 | 250 | 14.35 | 1.489 | 6.82 | 3.77 | 23.90 | 51.4 | 16.5 | |
| 1630 | 12.94 | 250 | 13.88 | 1.474 | 6.81 | 3.23 | 8.11 | 45.9 | 16.5 | |
| 1635 | 12.94 | 250 | 13.59 | 1.459 | 6.84 | 3.09 | 2.73 | 47.1 | 16.5 | |
| 1640 | 12.94 | 250 | 13.62 | 1.451 | 6.86 | 3.00 | 1.85 | 50.4 | 16.5 | |
| 1645 | 12.94 | 250 | 13.89 | 1.447 | 6.87 | 3.04 | 1.14 | 51.8 | 16.5 | |
| 1650 | 12.94 | 250 | 13.78 | 1.450 | 6.84 | 3.05 | 1.17 | 53.3 | 16.5 | Collect Sample |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14

1.45

6.8

3.1

1.2

53

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

DECON FLUIDS USED

TUBING/PUMP BLADDER MATERIALS

EQUIPMENT USED

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOL | 8260 | N | HCL | 3x40ml | Y | N | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED

NO. PURGE METHOD UTILIZED

NUMBER OF GALLONS GENERATED

SKETCH/NOTES

MT. NEGRO

GW-002

FORMER DCA Bldg

LINE ST.

SAMPLER SIGNATURE

CHECKED BY

DATE

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.1

LOW FLOW GROUNDWATER SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

PROJECT NAME

DIAMOND CLEANERS

LOCATION ID

GW-013

DATE

5/7/13

PROJECT NUMBER

361212209.02

START TIME

1208

END TIME

SAMPLE ID

DCGW01312013XX

SAMPLE TIME

0820 5/8/13

SITE NAME/NUMBER

PAGE

1 OF 1

WELL DIAMETER (INCHES)

☒ 1
☐ 2
☐ 4
☐ 6
☐ 8
☐ OTHER

TUBING ID (INCHES)

☒ 1/4
☐ 1/2
☐ 3/8
☐ 1/2
☐ 5/8
☐ OTHER

MEASUREMENT POINT (MP)

☐ TOP OF RISER (TOR)
☐ TOP OF CASING (TOC)
☐ OTHER

INITIAL DTW (BMP)

N/A FT

FINAL DTW (BMP)

FT

PROT. CASING STICKUP (ACS)

FLUSH FT

TOC/TOR DIFFERENCE

~0.5 FT

WELL DEPTH (BMP)

FT

SCREEN LENGTH

FT

PID AMBIENT AIR

0.0 PPM

REFILL TIMER SETTING

SEC

WATER COLUMN

FT

DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041)

GAL

PID WELL MOUTH

0.0 PPM

DISCHARGE TIMER SETTING

SEC

CALCULATED GAL/AOL (column X well diameter squared X 0.041)

GAL

TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)

GAL

DRAWDOWN/ TOTAL PURGED

PSI

PRESSURE TO PUMP

PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (F1) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SR. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------------------|-------------------------------|---------------------|--|----------------------------------|----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|-------------------|
| 1208 | | | | | | | | | | |
| | | | | | | | | | | |
| 1212 | N/A | 200 | 14.12 | 1032 | 6.82 | 0.12 | > | -53.0 | | GW is VER/ turbid |
| 1215 | | 200 | 14.16 | 1,019 | 6.41 | 0.08 | > | -45.5 | | Dark Gray Seclm |
| 1216 | Well | pumped Dry | Based on Previous Sampling, Will return in 12-24 Hours to collect Sample | | | | | | | |
| | | | Water Remained Very Turbid. No PID Hhts, PID @ 0.0ppm slight organic odor. | | | | | | | |
| | | | Tom Longley to collect sample - collect 3 X 40ml vials @ 0820 on 5-8-13 extremely turbid & muddy water | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP. nearest degree (ex. 10.1 = 10)

COND.: 3 SF max (ex. 333) = 330, 0.006 = 0.006

pH: nearest tenth (ex. 5.43 = 5.4)

DO: nearest tenth (ex. 3.51 = 3.5)

TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)

OMP: 3 SF (4.1 = 4.1, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER

DECON FLUIDS USED

☒ LIQUINOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/ PUMP BLADDER MATERIALS

☒ SILICON TUBING
☐ TEFLOX TUBING
☐ TEFLOX LINED TUBING
☒ LDPE TUBING
☐ LDPE TUBING
☐ OTHER

S. STEEL PUMP MATERIAL

☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ TEFLOX BLADDER
☐ OTHER
☐ OTHER

EQUIPMENT USED

☒ WL METER
☒ PID
☒ WQ METER
☒ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 8260 | N | HCL, 4°C | 3x40ml | Y | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED

☐ YES
☐ NO

NO. PURGE METHOD UTILIZED

☐ VRC
☐ NO

NUMBER OF GALLONS GENERATED

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

GW-013

LAKE ST.

E 5th ST

SAMPLER SIGNATURE

THOMAS D. LONGLEY

PRINT NAME

THOMAS D. LONGLEY

CHECKED BY

BSO

DATE

5/22/13

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.

LOW FLOW GROUNDWATER SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

FIGURE 4.17

LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

PROJECT NAME

DIAMOND CLEANERS

LOCATION ID

GW-014

DATE

5-8-13

PROJECT NUMBER

367403209.02

START TIME

0725

END TIME

1045

SAMPLE ID

DCGW01412013XX

SAMPLE TIME

1045

SITE NAME/NUMBER

Diamond Cleaners

PAGE

1 OF 1

WELL DIAMETER (INCHES)

☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES)

☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP)

☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BMP)

10.63 FT

FINAL DTW (BMP)

— FT

PROT. CASING STICKUP (AGS)

FLUSH FT

TOC/TOR DIFFERENCE

-0.45 FT

WELL DEPTH (BMP)

14.8 FT

SCREEN LENGTH

— FT

PID AMBIENT AIR

0.0 PPM

REFILL TIMER SETTING

— SEC

WATER COLUMN

4.17 FT

DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)

— GAL

PID WELL MOUTH

— PPM

DISCHARGE TIMER SETTING

— SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041)

0.040.17 GAL

TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)

— GAL

DRAWDOWN/ TOTAL PURGED

—

PRESSURE TO PUMP

— PSI

WELL INTEGRITY

YES NO N/A

☒ ☐ ☐

☒ ☐ ☐

☒ ☐ ☐

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (F1) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (unitless) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------------------|-------------------------------|---------------------|----------------------------|----------------------------------|-------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|---|
| 0739 | | | | | | | | | | BEGIN PURGING @ |
| | | | | | | | | | | Well pumps dry - can't keep up w/ pump - so de-water & come back w/ in the day to collect samples |
| 0758 | | | | | | | | | | pull off site/well |
| 1045 | | | | | | | | | | Return & Collect Sample |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

N/A

EQUIPMENT DOCUMENTATION

| | | | | |
|---|--|---|--|---|
| <div>TYPE OF PUMP</div> <div><input checked="" type="checkbox"/> PERISTALTIC SUBMERSIBLE BLADDER</div> <div><input type="checkbox"/> WATERA</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> OTHER</div> | <div>DECON FLUIDS USED</div> <div><input checked="" type="checkbox"/> LIQUINOX</div> <div><input type="checkbox"/> DEIONIZED WATER</div> <div><input type="checkbox"/> POTABLE WATER</div> <div><input type="checkbox"/> NITRIC ACID</div> <div><input type="checkbox"/> HEXANE</div> <div><input type="checkbox"/> METHANOL</div> <div><input type="checkbox"/> OTHER</div> | <div>TUBING/PUMP BLADDER MATERIALS</div> <div><input checked="" type="checkbox"/> SILICON TUBING</div> <div><input type="checkbox"/> TEFLON TUBING</div> <div><input type="checkbox"/> TEFLON LINED TUBING</div> <div><input checked="" type="checkbox"/> HDPE TUBING</div> <div><input type="checkbox"/> LDPE TUBING</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> OTHER</div> | <div>S. STEEL PUMP MATERIAL</div> <div><input type="checkbox"/> PVC PUMP MATERIAL</div> <div><input type="checkbox"/> GEOPROBE SCREEN</div> <div><input type="checkbox"/> TEFLON BLADDER</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> OTHER</div> | <div>EQUIPMENT USED</div> <div><input checked="" type="checkbox"/> WL METER</div> <div><input checked="" type="checkbox"/> PID</div> <div><input checked="" type="checkbox"/> WQ METER</div> <div><input checked="" type="checkbox"/> TURB. METER</div> <div><input checked="" type="checkbox"/> PUMP</div> <div><input type="checkbox"/> OTHER</div> <div><input type="checkbox"/> FILTERS</div> <div>NO. <input checked="" type="checkbox"/> TYPE</div> |
|---|--|---|--|---|

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 82600 | N | Hcl | 3x40ml | 3 | | |

PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED

☐ YES ☒ NO

NO. PURGE METHOD UTILIZED

☐ YES ☒ NO

NUMBER OF GALLONS GENERATED

—

If yes, purged approximately 1 standing volume prior to sampling or — mL for this sample location.

SKETCH/NOTES

Sampler Signature: [Signature]

Print Name: Ryan Torrey

Checked By: TDL

Date: 5-21-13

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4

LOW FLOW GROUNDWATER SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112109.07

SAMPLE ID
DCMW00112013XX

SAMPLE TIME
15:55

LOCATION ID
MW-001

DATE
5-7-13

START TIME
14:50

END TIME
16:00

SITE NAME/NUMBER
Diamond Cleaners

PAGE
1 OF **1**

**NO BOLTS TO
STEEL GIVEN**

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

| YES | NO | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INITIAL DTW (BMP) **12.10** FT FINAL DTW (BMP) **12.19** FT PROT. CASING STICKUP (AGS) **PLUSH** FT TOCTOR DIFFERENCE **1.0** FT

WELL DEPTH (BMP) **23.50** FT SCREEN LENGTH **—** FT PID AMBIENT AIR **NA** PPM REFILL TIMER SETTING **—** SEC

WATER COLUMN **11.4** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.015** GAL PID WELL MOUTH **NA** PPM DISCHARGE TIMER SETTING **—** SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.87** GAL TOTAL VOL. PURGED **12.7** GAL DRAWDOWN/ TOTAL PURGED **0.0055** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Dewatered | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | RDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|--------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|--------------------------|------------------------------|-----------------------------|
| 15:00 | | | | | | | | | | BEGIN PURGING @ 200 mL/min. |
| 15:10 | 12.19 | 200 | 14.57 | 0.636 | 7.21 | 3.60 | 61.4 | 71.3 | 3' up off bottom | |
| 15:15 | 12.19 | 200 | 14.25 | 0.644 | 7.20 | 2.62 | 41.7 | 68.8 | | |
| 15:20 | 12.19 | 200 | 14.25 | 0.662 | 7.19 | 2.25 | 29.8 | 65.3 | | |
| 15:25 | 12.19 | 200 | 14.22 | 0.710 | 7.19 | 1.93 | 23.2 | 61.3 | | |
| 15:35 | 12.19 | 200 | 14.13 | 0.787 | 7.18 | 1.70 | 15.8 | 57.0 | | 15:35 Time |
| 15:40 | 12.19 | 200 | 13.66 | 0.803 | 7.18 | 1.72 | 15.2 | 57.1 | | |
| 15:45 | 12.19 | 200 | 13.85 | 0.821 | 7.17 | 1.47 | 13.8 | 56.7 | | |
| 15:48 | 12.19 | 250 | 13.65 | 0.834 | 7.17 | 1.42 | 12.8 | 56.5 | | |
| 15:51 | 12.19 | 250 | 13.86 | 0.884 | 7.13 | 1.40 | 10.5 | 55.8 | | |
| 15:55 | 3 Angle | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14 **0.834** **7.2** **1.4** **10.5** **56**

TEMP. nearest degree (ex. 10.1 = 10)
COND. 1 SF max (ex. 3333 = 3330, 0.006 = 0.006)
pH nearest tenth (ex. 5.51 = 5.5)
DO nearest tenth (ex. 5.51 = 5.5)
TURB. 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
RDOX 3 SF (4.11 = 4.1, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATERB ☒ OTHER **Geo Pump**

BECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

FILTERS NO. ☒ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8260B | N | Hcl, 4°C | 3x40mL | Y | — | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **12.7**

If you purge approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

BENJAMIN ST.

MW-001

LEADY HALL

FRANK

D.C. BLOK (GONE)

MACTEC
511 Congress Street, Portland Maine 04101

FINE, black, suspended FLECKS in well water

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
36121132-09.02

SAMPLE ID
DCMW00212013XR

SAMPLE TIME
11:40

LOCATION ID
MW-002

DATE
5-8-12

START TIME
10:30

END TIME
11:45

SITE NAME/NUMBER
Diamond Cleaners

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MFP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BMP) **12.22** FT FINAL DTW (BMP) **12.25** FT PROT. CASING STICKUP (ACS) **FLUSH** FT

WELL DEPTH (BMP) **24.1** FT SCREEN LENGTH **2** FT MID AMBIENT AIR **0.0** PPM

WATER COLUMN **11.88** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.005** GAL

CALCULATED GAL/VOL. PURGED (column X well diameter squared X 0.041) **1.95** GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) **~2.8** GAL

DRAWDOWN/ TOTAL PURGED **0.0018**

WELL INTEGRITY YES NO N/A
CAP ☒ ☐ ☐
CASING ☒ ☐ ☐
LOCKED ☒ ☐ ☐
COLLAR ☒ ☐ ☐

TOC/TOR DIFFERENCE **~0.05** FT

REFILL TIMER SETTING _____ SEC

DISCHARGE TIMER SETTING _____ SEC

PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (±0.3 degrees) | SP. CONDUCTANCE (mS/cm) (±1-3%) | pH (units) (±0.1 units) | DISS. O ₂ (mg/L) (±1-10%) | TURBIDITY (ntu) (±10% <10 ntu) | REDOX (mv) (±10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------------|-------------------------------------|------------------------|------------------------------|---------------------------------------|----------------------------|---|-----------------------------------|------------------------|------------------------------|--|
| 10:39 | BEGIN PURGING @ 200 mL/min. | | | | | | | | | |
| 10:48 | 12.25 | 200 | 12.26 | 1.011 | 7.15 | 0.87 | 53.2 | 90.2 | 3' off | bottom |
| 10:55 | 12.25 | 200 | 12.30 | 1.010 | 7.14 | 0.48 | 37.8 | 85.2 | - | |
| 11:00 | 12.25 | 200 | 12.30 | 1.005 | 7.16 | 0.38 | 26.0 | 87.0 | | |
| 11:10 | 12.25 | 200 | 12.33 | 1.009 | 7.16 | 0.83* | 18.0 | 86.0 | | * HAS TO ADJUST SEAL OF PUMP - THAN COLL |
| 11:15 | 12.25 | 200 | 12.32 | 1.008 | 7.14 | 0.35 | 12.9 | 83.0 | | |
| 11:25 | 12.25 | 200 | 12.35 | 1.008 | 7.13 | 0.30 | 8.86 | 78.6 | | |
| 11:30 | 12.25 | 200 | 12.33 | 1.009 | 7.13 | 0.27 | 6.20 | 77.1 | | |
| 11:33 | 12.25 | 200 | 12.38 | 1.008 | 7.13 | 0.25 | 6.85 | 75.6 | | |
| Sample - Col Time @ 11:40 | | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12. 1.01 7.1 0.3 6.9 76

TEMP: nearest degree (6.1 - 10)
COND: 3 SF max (ex. 5.115 = 5.12, 0.006 = 0.006)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 3 SF (441 = 441, 1200 = 1200)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☒ PERISTALTIC
☐ SUBMERSIBLE
☐ DIAPHRAGM
☐ WATER
☒ OTHER **Geopump**

DECON FLUIDS USED
☒ LIQUINOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ TEFLOX TUBING
☐ TEFLOX LINED TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER _____

S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROB SCREEN
☐ TEFLOX BLADDER
☐ OTHER _____

EQUIPMENT USED
☒ WL METER
☒ PID
☒ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER _____
FILTERS NO. ☒ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> Vocs | 8260B | N | HCL, 4°C | 3x40mL | Y | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PURGE MATHON UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~2.8**

If you purged approximately 1 sampling volume after to sampling or _____ mL for this sample location.

SKETCH/NOTES

MW-002

LOOSE PLUG

FORWARD

D.C.

Sampler Signature **Th. O. Longley** Print Name: **Thomas D. Longley**

Checked By: **R2292** Date: **5/22/12**

MACTEC
511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
36121122 09.02

SAMPLE ID
DC MW00312013XX

SAMPLE TIME
13:45

LOCATION ID
MW-003

DATE
5-7-13

START TIME
12:50

END TIME
13:50

SITE NAME/NUMBER
Diamond Cleaners

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (NP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

| | YES | NO | N/A |
|--------|-------------------------------------|--------------------------|--------------------------|
| CAP | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INITIAL DTW (DMP) **11.45** FT FINAL DTW (DMP) **11.5** FT

WELL DEPTH (DMP) **24.00** FT SCREEN LENGTH _____ FT

WATER COLUMN **12.55** FT DRAWDOWN VOLUME **0.008** GAL

CALCULATED GAL/VOL **2.06** GAL (column X well diameter squared X 0.041)

TOTAL VOL. PURGED **22.8** GAL (mL per minute X total minutes X 0.00026 gal/mL)

PROT. CASING STICKUP (ACS) **FLUSH** FT

PID AMBIENT AIR **NA** PPM

PID WELL MOUTH **NA** PPM

DRAWDOWN/ TOTAL PURGED **0.0029**

TOC/TOR DIFFERENCE **-0.4** FT

REFILL TIMER SETTING _____ SEC

DISCHARGE TIMER SETTING _____ SEC

PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DIW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|-------------------------------------|
| 12:59 | | | | | | | | | | BEGIN PURGING Then on @ 240 mL/min. |
| 13:08 | 11.50 | 230 | 12.45 | 1.127 | 6.82 | 3.00 | 21.6 | 100.1 | 4' up | From Bottom |
| 13:15 | 11.50 | 230 | 12.46 | 1.078 | 6.91 | 1.95 | 13.8 | 89.5 | | |
| 13:20 | 11.51 | 230 | 12.30 | 1.061 | 6.88 | 1.55 | 11.2 | 89.4 | | |
| 13:25 | 11.50 | 230 | 12.29 | 1.043 | 6.92 | 1.28 | 10.6 | 92.8 | | |
| 13:30 | 11.50 | 230 | 12.07 | 1.036 | 6.96 | 1.16 | 7.40 | 85.4 | | |
| 13:35 | 11.53 | 230 | 12.03 | 1.032 | 6.96 | 1.10 | 6.07 | 81.4 | | |
| 13:40 | 11.50 | 230 | 12.15 | 1.026 | 6.98 | 1.19 | 5.37 | 78.2 | | |
| 13:45 | | | | | | | | | | SAMPLE. |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 1.03 7.0 1.2 5.4 78

TEMP. (°C) (ex. 10.1 = 10.1)
COND. (µS/cm) (ex. 3330, 0.004 = 0.004)
pH: (ex. 5.51 = 5.5)
DISS. O₂ (mg/L) (ex. 3.51 = 3.5)
TURB. (ntu) (ex. 6.19 = 6.2, 101 = 101)
ORP: (mV) (ex. 4.1 = 4.1, 101 = 101)

EQUIPMENT DOCUMENTATION

| | | | | |
|---|---|---|---|---|
| <p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC</p> <p><input type="checkbox"/> SUBMERSIBLE</p> <p><input type="checkbox"/> BLADDER</p> <p>WATER/OTHER Geolung</p> <p>OTHER _____</p> | <p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX</p> <p><input type="checkbox"/> DEIONIZED WATER</p> <p><input type="checkbox"/> POTABLE WATER</p> <p><input type="checkbox"/> NITRIC ACID</p> <p><input type="checkbox"/> HEXANE</p> <p><input type="checkbox"/> METHANOL</p> <p>OTHER _____</p> | <p>TUBING/PUMP BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING</p> <p><input type="checkbox"/> TEFLOX TUBING</p> <p><input type="checkbox"/> TEFLOX LINED TUBING</p> <p><input type="checkbox"/> HDPE TUBING</p> <p><input type="checkbox"/> LDPE TUBING</p> <p>OTHER _____</p> | <p>S. STEEL PUMP MATERIAL</p> <p><input type="checkbox"/> PVC PUMP MATERIAL</p> <p><input type="checkbox"/> OROPROB SCREEN</p> <p><input type="checkbox"/> TEFLOX BLADDER</p> <p>OTHER _____</p> <p>OTHER _____</p> | <p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> WL METER</p> <p><input type="checkbox"/> PID</p> <p><input type="checkbox"/> WQ METER</p> <p><input type="checkbox"/> TURB. METER</p> <p><input type="checkbox"/> PUMP</p> <p>OTHER _____</p> <p>ENTERS NO. <input checked="" type="checkbox"/> TYPE</p> |
|---|---|---|---|---|

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 8260B | N | HCL, 4°C | 3x40mL | Y | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

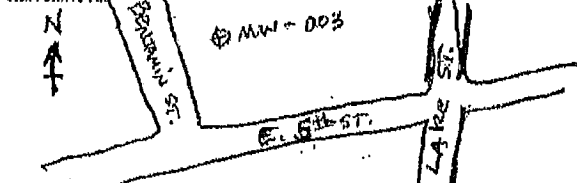
PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PIPES WITH MITHON UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **22.8**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature **Th. D. Longley** Print Name: **Thomas D. Longley**

Checked By **B. J. J.** Date: **5/22/13**

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112309.02

SAMPLE ID
DC-MW 00412013XX

SAMPLE TIME
10:00

LOCATION ID
MW-004

DATE
5-8-13

START TIME
0845

END TIME
10:10

SITE NAME/NUMBER
1

PAGE
OF 1

NO BOLTS
for cover TOP
- SURFACE WATER
ISSUE
HERE!

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY
YES ☒ NO ☐ N/A ☐

CAP ☒ CASING ☒ LOCKED ☒ COLLAR ☒

INITIAL DTW (BMP) **11.58** FT FINAL DTW (BMP) **12.10** FT

WELL DEPTH (BMP) **21.2** FT SCREEN LENGTH **—** FT

WATER COLUMN **9.62** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.085** GAL

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **1.58** GAL TOTAL VOL. PURGED **24.1** GAL

PROT. CASING STICKUP (ACS) **FLASH** FT

WID AMBIENT AIR **0.0** PPM

PID WELL MOUTH **0.0** PPM

DRAWDOWN/ TOTAL PURGED **0.0007**

TOC/TOR DIFFERENCE **-0.3** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 0.3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|---------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|--------------------|
| 0854 | BEGIN PURGING @ 220 mL/min | | | | | | | | | |
| 0900 | 12.03 | 220 | 11.49 | 0.553 | 7.13 | 7.15 | 39.1 | 90.4 | 3' up | from bottom |
| 0910 | 12.11 | 250 | 11.36 | 0.582 | 7.19 | 5.23 | 27.8 | 87.2 | — | |
| 0920 | 12.18 | 250 | 11.28 | 0.628 | 7.19 | 4.54 | 18.0 | 85.5 | — | |
| 0930 | 12.20 | 250 | 11.32 | 0.656 | 7.20 | 4.16 | 12.4 | 83.0 | — | |
| 0935 | 11.47 | 250 | 11.17 | 0.633 | 7.21 | 4.15 | 15.2 | 85.4 | — | 12.31 |
| 0940 | 11.33 | 250 | 11.33 | 0.680 | 7.21 | 4.16 | 13.3 | 83.7 | — | 12.24 |
| 0945 | 12.21 | 250 | 11.38 | 0.690 | 7.21 | 3.95 | 11.0 | 82.8 | — | |
| 0950 | 12.21 | 250 | 11.37 | 0.698 | 7.21 | 3.76 | 7.50 | 81.4 | — | |
| 0955 | 12.10 | 250 | 11.49 | 0.706 | 7.21 | 3.51 | 6.34 | 79.4 | — | |
| 0958 | 12.10 | 250 | 11.53 | 0.717 | 7.22 | 3.49 | 5.43 | 76.3 | — | |
| 10:00 | Collect sample. | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 **0.72** **7.2** **3.5** **5.4** **76**

TEMP. sensor degree (ex. 10.1 = 10)
CONDUCT. 3 SF max (ex. 3333 = 3330, 0.006 = 0.006)
pH nearest tenth (ex. 5.51 = 5.5)
DISS. O₂ nearest tenth (ex. 3.21 = 3.2)
TURB. 3 SF max, round tenth (ex. 6.19 = 6.2, 101 = 101)
REDOX 3 SF (ex. 44.01 = 44.0)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☒ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER

DECON FLUIDS USED
☒ LIQUINOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS
☒ SILICON TUBING
☐ TEFLOX TUBING
☐ TEFLOX LINED TUBING
☐ ROP TUBING
☐ LDPE TUBING
☐ OTHER _____

S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ OROPROBE SCREEN
☐ TEFLOX BLADDER
☐ OTHER _____

EQUIPMENT USED
☒ WL METER
☐ PID
☒ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER _____

FILTERS NO. **—** TYPE **—**

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-------------|---------------|----------------|---------------------|------------------|------------------|--------------|--------------------------|
| VOCs | 8260B | N | ACCL 4°C | 12 x 40ml | Y | Y | |
| | | | | | | | |
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| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED ☒ YES ☐ NO

NO PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF PALLS GENERATED **24.1**

If purged approximately 1 standing volume prior to sampling or _____ min. for this sample location.

SKETCH/NOTES

N
↑

BLDG.

MW-004

BE

Former DC Bldg

57

Sampler Signature: **J. D. Longley**

Print Name: **Thomas D. Longley**

Checked By: **R. J. Longley**

Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

Collect Dup + ms + msd (12 Vials)
XD - MS - MD

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

XD
MS
MD

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
26121009-02

SAMPLE ID
DCMW00612013XK

SAMPLE TIME
12:35

LOCATION ID
MW-006

DATE
5-7-13

START TIME
11:10

END TIME
12:40

SITE NAME/NUMBER
—

PAGE
1 OF **1**

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BMP) **9.44** FT FINAL DTW (BMP) **9.71** FT PROT. CASING STICKUP (ACS) **PLUSH** FT TOCTOR DIFFERENCE **NA** FT

WELL DEPTH (BMP) **19.5** FT SCREEN LENGTH **—** FT PID AMBIENT AIR **NA** PPM REFILL TIMER SETTING **—** SEC

WATER COLUMN **10.06** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.044** GAL DID WELL MOUTH **NA** PPM DISCHARGE TIMER SETTING **—** SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.65** GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) **~4.6** GAL DRAWDOWN/ TOTAL PURGED **~0.0096** PRESSURE TO PUMP **—** PSI

WELL INTEGRITY YES NO N/A
CAP ☒ YES ☐ NO ☐ N/A
CASING ☒ YES ☐ NO ☐ N/A
LOCKED ☒ YES ☐ NO ☐ N/A
COLLAR ☒ YES ☐ NO ☐ N/A

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (F1) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (± 0.3 degrees) | SP. CONDUCTIVITY (mS/cm) (± 3%) | pH (units) (± 0.1 units) | DISS. O ₂ (mg/L) (± 0.05%) | TURBIDITY (ntu) (± 10% <10 ntu) | REDOX (mv) (± 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|---------------------------------------|-----------------------------|--|------------------------------------|-------------------------|------------------------------|---|
| 11:44 | | | | | | | | | | BEGIN PURGING @ 11:22. Turn on pump @ 230 mL/min. |
| 11:30 | 9.69 | 230 | 12.91 | 1.261 | 7.33 | 4.00 | 51.5 | 42.5 | 4' | off bottom (2.69 d.r.w.) |
| 11:35 | 9.71 | 260 | 12.83 | 1.274 | 7.26 | 1.95 | 31.7 | 60.1 | — | |
| 11:40 | 9.75 | 260 | 12.81 | 1.360 | 7.22 | 1.05 | 21.2 | 54.0 | — | Speed on pump |
| 11:50 | 9.72 | 240 | 12.83 | 1.438 | 7.21 | 0.89 | 21.3 | 49.5 | — | |
| 11:55 | 9.73 | 240 | 12.91 | 1.487 | 7.19 | 0.69 | 18.3 | 48.9 | — | |
| 12:05 | 9.74 | 240 | 13.09 | 1.543 | 7.17 | 0.59 | 15.2 | 57.0 | — | |
| 12:15 | 9.71 | 240 | 13.18 | 1.577 | 7.16 | 0.49 | 7.82 | 48.0 | — | 240 mL/min Auto |
| 12:20 | 9.71 | 240 | 13.29 | 1.590 | 7.13 | 0.45 | 7.30 | 52.2 | — | |
| 12:25 | 9.71 | 240 | 13.21 | 1.599 | 7.14 | 0.46 | 5.77 | 59.0 | — | |
| 12:30 | 9.71 | 240 | 13.16 | 1.610 | 7.10 | 0.42 | 5.43 | 59.8 | — | |
| 12:35 | | | | | | | | | | Sample |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 **1.61** **7.1** **0.4** **5.4** **59.8**

TEMP. (°C) (± 0.3) = 10.1 ± 0.3
COND. (µS/cm) (± 3%) = 2130 ± 64
pH (units) (± 0.1) = 7.33 ± 0.1
DISS. O₂ (mg/L) (± 0.05%) = 4.00 ± 0.2
TURBIDITY (ntu) (± 10%) = 51.5 ± 5.2
REDOX (mv) (± 10) = 42.5 ± 4.3
PUMP INTAKE DEPTH (ft) = 4'

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER ☒ OTHER **Geopump**

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HOPE TUBING ☐ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ CHEMOPROBE SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WO METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☒ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 8260B | N | HCL 4% | 3x40ml | yes | — | — |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~4.6**

NUMBER METHOD UTILIZED ☐ YES ☒ NO

If yes, purge approximately 1 ascending volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

N

MW-006

260

STAVE

Visim

Center

Lake St.

Sampler Signature **Thomas D. Longly** Print Name: **Thomas D. Longly**

Checked By: **B-29-2** Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

Well had dedicated Tubing, but too short - had to replace w/ new tubing

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

| | | | | | | | | | | |
|---|-------------------------------------|--|-----------------------------|--|-----------------------------|--|-------------------------------------|--|------------------------|------------------|
| PROJECT NAME Diamond Cleaners PROJECT NUMBER 3612112209.02 SAMPLE ID DCMW007/12013XX SAMPLE TIME 1525 | | | | LOCATION ID MW-007 START TIME 1451 SITE NAME/NUMBER — | | DATE 5/7/13 END TIME 1525 PAGE 1 OF 1 | | | | |
| WELL DIAMETER (INCHES) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> OTHER | | TUBING ID (INCHES) <input checked="" type="checkbox"/> 1/8 <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8 <input type="checkbox"/> OTHER | | MEASUREMENT POINT (NIP) <input checked="" type="checkbox"/> TOP OF RISER (TOR) <input checked="" type="checkbox"/> TOP OF CASING (TOC) <input type="checkbox"/> OTHER | | WELL INTEGRITY YES NO N/A CAP <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CASING <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LOCKED <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> COLLAR <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | | |
| INITIAL DTW (BMP) 12.10 FT WELL DEPTH (BMP) 22 FT WATER COLUMN 9.9 FT CALCULATED GAL/VOL 1.6 GAL <small>(column X well diameter squared X 0.041)</small> | | FINAL DTW (BMP) 12.12 FT SCREEN LENGTH — FT DRAWDOWN VOLUME 0.0032 GAL <small>(initial DTW - final DTW X well diam. squared X 0.041)</small> TOTAL VOL. PURGED ~2.1 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small> | | PROT. CASING STICKUP (AGS) FLUSH FT PID AMBIENT AIR 0.0 PPM PID WELL MOUTH 0.0 PPM DRAWDOWN/ TOTAL PURGED 0.0015 | | TOC/TOR DIFFERENCE — FT REFILL TIMER SETTING — SEC DISCHARGE TIMER SETTING — SEC PRESSURE TO PUMP — PSI | | | | |
| FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP) | | | | | | | | | | |
| TIME 3-5 Minutes | DTW (F1) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (± 3 degrees) | SP. CONDUCTANCE (mS/cm) (± 3%) | pH (units) (± 0.1 units) | DISS. O ₂ (mg/L) (± 10%) | TURBIDITY (ntu) (± 10% < 10 ntu) | REDOX (mv) (± 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
| 1451 | BEGIN PURGING | | | | | | | | | |
| 1457 | 12.12 | 250 | 16.07 | 1.310 | 6.94 | 6.70 | 23.38 | 44.1 | | |
| 1502 | 12.12 | 250 | 15.04 | 1.293 | 6.73 | 3.65 | 10.21 | 43.2 | | |
| 1507 | 12.12 | 250 | 14.94 | 1.300 | 6.80 | 3.46 | 3.99 | 37.0 | | |
| 1512 | 12.12 | 250 | 14.70 | 1.302 | 6.79 | 3.44 | 3.82 | 37.2 | | |
| 1517 | 12.12 | 250 | 14.50 | 1.300 | 6.79 | 3.61 | 2.68 | 35.0 | | ✓ Collect Sample |
| 1520 | 12.12 | 250 | 14.37 | 1.303 | 6.76 | 3.68 | 2.37 | 32.4 | | |
| 1523 | 12.12 | 250 | 14.38 | 1.303 | 6.79 | 3.68 | 0.38 | 33.0 | | ✓ Collect Sample |
| FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF)) 14 1.30 6.8 3.7 0.4 33 | | | | | | | | | | |
| EQUIPMENT DOCUMENTATION | | | | | | | | | | |
| TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | DECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER | | TUBING/PUMP BLADDER MATERIALS <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | EQUIPMENT USED <input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | EQUIPMENT USED <input checked="" type="checkbox"/> WL METER <input type="checkbox"/> PID <input type="checkbox"/> WQ METER <input type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. TYPE | | |
| ANALYTICAL PARAMETERS | | | | | | | | | | |
| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS | | | |
| VOL | 8260 | N | HCL | 3x40ml | Y | N | | | | |
| PURGE OBSERVATIONS | | | | | | | | | | |
| PUMP OF WATER CONTAINERIZED YES NO NA-PURGE METHOD UTILIZED YES NO | | NUMBER OF GALLONS GENERATED ~2.1 If purged approximately 1 standing volume prior to sampling or _____ vol. for this sample location. | | SKETCH/NOTES 2600 MW ST MW-007 MT. NERO LODGE N ↑ | | | | | | |
| Sampler Signature: Ryan Torrey Checked By: TDL Date: 5-21-13 | | | | | | | | | | |

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMW008/2013XX

SAMPLE TIME
1415

LOCATION ID
MW-008

DATE
5/7/13

START TIME
1325

END TIME
1415

SITE NAME/NUMBER
—

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BMP) 11.45 FT FINAL DTW (BMP) 11.50 FT PROT. CASING STICKUP (ACS) FLUSH FT TOC/TOR DIFFERENCE _____ FT

WELL DEPTH (BMP) 22 FT SCREEN LENGTH _____ FT PID AMBIENT AIR _____ PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN 10.55 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.0082 GAL PID WELL MOUTH _____ PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL 1.7 GAL TOTAL VOL. PURGED ~3.3 GAL DRAWDOWN/ TOTAL PURGED 0.0035 PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DIW (F-1) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|--------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|---------------|
| <u>1328</u> | | | | | | | | | | BEGIN PURGING |
| <u>1333</u> | <u>11.49</u> | <u>200</u> | <u>14.10</u> | <u>0.893</u> | <u>6.76</u> | <u>2.71</u> | <u>69.14</u> | <u>40.4</u> | | |
| <u>1338</u> | <u>11.50</u> | <u>200</u> | <u>13.58</u> | <u>0.899</u> | <u>6.79</u> | <u>2.47</u> | <u>11.78</u> | <u>37.0</u> | | |
| <u>1343</u> | <u>11.50</u> | <u>200</u> | <u>13.80</u> | <u>0.888</u> | <u>6.81</u> | <u>1.88</u> | <u>3.86</u> | <u>40.1</u> | | |
| <u>1348</u> | <u>11.50</u> | <u>200</u> | <u>13.68</u> | <u>0.880</u> | <u>6.87</u> | <u>1.42</u> | <u>2.06</u> | <u>31.7</u> | | |
| <u>1353</u> | <u>11.50</u> | <u>200</u> | <u>13.52</u> | <u>0.864</u> | <u>6.80</u> | <u>1.13</u> | <u>0.84</u> | <u>40.5</u> | | |
| <u>1358</u> | <u>11.50</u> | <u>200</u> | <u>13.65</u> | <u>0.854</u> | <u>6.87</u> | <u>1.08</u> | <u>1.26</u> | <u>32.9</u> | | |
| <u>1403</u> | <u>11.50</u> | <u>200</u> | <u>13.46</u> | <u>0.839</u> | <u>6.86</u> | <u>1.08</u> | <u>5.67</u> | <u>27.8</u> | | |
| <u>1406</u> | <u>11.50</u> | <u>200</u> | <u>13.45</u> | <u>0.839</u> | <u>6.85</u> | <u>0.84</u> | <u>2.54</u> | <u>23.0</u> | | |
| <u>1409</u> | <u>11.50</u> | <u>200</u> | <u>13.46</u> | <u>0.837</u> | <u>6.86</u> | <u>0.79</u> | <u>1.86</u> | <u>24.1</u> | | |
| <u>1412</u> | <u>11.50</u> | <u>200</u> | <u>13.47</u> | <u>0.837</u> | <u>6.82</u> | <u>0.77</u> | <u>1.38</u> | <u>28.9</u> | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 0.837 6.8 0.8 1.4 30

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 1333 = 1330, 0.096 = 0.096)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB.: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 3 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

WATER/A ☐ OTHER ☐ OTHER

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER ☐ OTHER

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <u>VOL</u> | <u>8260</u> | <u>N</u> | <u>HCL</u> | <u>3x40mL</u> | <u>Y</u> | <u>N</u> | |
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PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED ~2.3

If you purged approximately 3 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Benjamin St.

MW-008

N

Sampler Signature: TDL Print Name: Ryan Diney

Checked By: TDL Date: 5-21-13

PROJECT NAME

Diamond Cleaners

LOCATION ID

MW-009

DATE

5-7-2013

PROJECT NUMBER

3612112204.02

START TIME

10:10

END TIME

11:00

SAMPLE ID

DCMW00912013XX

SAMPLE TIME

10:55

SITE NAME/NUMBER

PAGE

1 OF 1

WELL DIAMETER (INCHES)

☐ 1
☒ 2
☐ 4
☐ 6
☐ 8
☐ OTHER

TUBING ID (INCHES)

☐ 1/8
☒ 1/4
☐ 3/8
☐ 1/2
☐ 5/8
☐ OTHER

MEASUREMENT POINT (MP)

☒ TOP OF RISER (TOR)
☐ TOP OF CASING (TOC)
☐ OTHER

INITIAL DTW (BMP)

11.80 FT

FINAL DTW (BMP)

11.81 FT

PROT. CASING STICKUP (AGS)

FLUSH FT

TOC/TOR DIFFERENCE

-0.6 FT

WELL DEPTH (BMP)

20.8 FT

SCREEN LENGTH

— FT

PID AMBIENT AIR

NA PPM

REFILL TIMER SETTING

— SEC

WATER COLUMN

9.00 FT

DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041)

— GAL

PID WELL MOUTH

NA PPM

DISCHARGE TIMER SETTING

— SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041)

1.48 GAL

PURGED (mL per minute X total minutes X 0.00026 gal/mL)

~2.8 GAL

DRAWDOWN/ TOTAL PURGED

—

PRESSURE TO PUMP

— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (+/- 0.0-0.33 ft Drawdown) | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|------------------|---------------------------------|---------------------|----------------------------|----------------------------------|----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|----------|
| 10:16 | BEGIN PURGING @ 350 - flow down | | | | | | | | | |
| 10:25 | 11.81 | 250 | 11.41 | 0.775 | 6.98 | 2.73 | 4.44 | 74.8 | 3' off | bottom |
| 10:30 | 11.81 | 250 | 11.44 | 0.801 | 7.01 | 2.27 | 2.61 | 72.0 | | |
| 10:35 | 11.81 | 250 | 11.39 | 0.822 | 7.03 | 1.90 | 1.63 | 68.9 | | |
| 10:40 | 11.81 | 250 | 11.41 | 0.847 | 7.05 | 1.49 | 1.31 | 66.1 | | |
| 10:45 | 11.81 | 250 | 11.39 | 0.869 | 7.06 | 1.34 | 0.82 | 63.1 | | |
| 10:50 | 11.81 | 250 | 11.39 | 0.876 | 7.06 | 1.52 | 0.64 | 62.3 | | |
| 10:53 | 11.81 | 250 | 11.42 | 0.835 | 7.07 | 1.80 | 0.55 | 61.0 | | |
| 10:55 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

| | | | | | |
|----|-------|-----|-----|-----|----|
| 11 | 0.885 | 7.1 | 1.3 | 0.5 | 61 |
|----|-------|-----|-----|-----|----|

EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER

DECON FLUIDS USED

☒ LIQUINOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP BLADDER MATERIALS

☒ SILICON TUBING
☐ TEFLO TUBING
☐ TEFLO LINED TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER

S. STEEL PUMP MATERIAL

☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ TEFLO BLADDER
☐ OTHER

EQUIPMENT USED

☒ WL METER
☐ BID
☒ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| TCG VOA | 8260B | N | HCL, 4°C | 3x40mL | 8 | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED

☒ YES
☐ NO

NO. H₂O P METHOD UTILIZED

☐ YES
☒ NO

NUMBER OF GALLONS GENERATED

~5.86

SKETCH/NOTES

Sampler Signature:

Thomas D. Longley

Print Name:

Thomas D. Longley

Checked By:

RSZ

Date:

5/22/13

MACTEC

511 Congress Street, Portland Maine 04101

FIGURE 4.

LOW FLOW GROUNDWATER SAMPLING RECORD

NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122 09.02

SAMPLE ID
DCMW01012013XX

SAMPLE TIME
16:50

LOCATION ID
MW-010

DATE
5-7-13

START TIME
16:05

END TIME
17:00

SITE NAME/NUMBER
DIAMOND CLEANERS

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

| YES | NO | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INITIAL DTW (BMP) **12.35** FT FINAL DTW (BMP) **12.42** FT PROT. CASING STICKUP (ACS) **FLUSH** FT TOC/TOR DIFFERENCE **0.5** FT

WELL DEPTH (BMP) **21.70** FT SCREEN LENGTH _____ FT PID AMBIENT AIR _____ PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **9.35** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.011** GAL PID WELL MOUTH _____ PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL **1.5** GAL TOTAL VOL. PURGED **12.2** GAL DRAWDOWN/ TOTAL PURGED **0.005** PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDUX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------------------|
| 16:14 | BEGIN PURGING @ 250 mL/min. | | | | | | | | | |
| 16:18 | 12.41 | 250 | 11.70 | 0.727 | 7.18 | 8.00 | 15.0 | 97.8 | 3' up | off bottom |
| 16:25 | 12.41 | 250 | 11.58 | 0.733 | 7.19 | 5.75 | 13.5 | 87.7 | - | |
| 16:30 | 12.42 | 250 | 11.16 | 0.735 | 7.19 | 5.52 | 10.00 | 82.0 | - | |
| 16:35 | 12.42 | 300 | 11.00 | 0.735 | 7.19 | 5.44 | 9.23 | 78.2 | - | |
| 16:40 | 12.42 | 270 | 10.99 | 0.736 | 7.19 | 5.23 | 9.23 | 75.5 | - | 5.37 D.O. / 6.29 NTU |
| 16:45 | 12.42 | 270 | 11.01 | 0.738 | 7.20 | 5.21 | 5.49 | 72.4 | - | |
| 16:50 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

11 0.738 7.2 5.2 5.5 72

TEST: correct factor (ex. 10.1 = 10)
CONC: 1 SF max (ex. 333 = 330, 0.006 = 0.006)
pH: nearest tenth (ex. 5.55 = 5.5)
DO: nearest tenth (ex. 5.51 = 5.5)
TURB: 1 SF max, nearest tenth (ex. 6.19 = 6.2, 101 = 101)
TEMP: 2 SF (41.1 = 41, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERBURY ☒ OTHER **Geopump**

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PIMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

FILTERS NO. ☒ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <input checked="" type="checkbox"/> VOCs | 8260B | N | HCL, 4% HCL, 4% | 3x40ml | Y | - | - |
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PURGE OBSERVATIONS

PLAIN WATER CONTAINERIZED ☒ YES ☐ NO

NO. PUMP METHOD UTILIZED ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED **12.2**

If you purged approximately 1 sampling volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

N

BLOG. ACROSS FROM D.C. SITE

BENJAMIN ST.

POLMER D.C. BLDG.

MW-010

Sampler Signature: **Th. D. Longley**

Print Name: **Thomas D. Longley**

Checked By: **B. J. J.**

Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Region 4 Dry Cleaners Groundwater Assoc.

PROJECT NUMBER
3612 H33 09.02

SAMPLE ID
DCMW0112013 XX

SAMPLE TIME
1419

LOCATION ID
MW-011

DATE
5/6/13

START TIME
1340

END TIME
1419

SITE NAME/NUMBER
—

PAGE
1 OF *1*

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOG) ☐ OTHER _____

INITIAL DTW (BNP) *14.41* FT FINAL DTW (BNP) *14.64* FT PROT. CASING STICKUP (ACS) *Flush* FT TOCTOR DIFFERENCE _____ FT

WELL DEPTH (BNP) *21.96* FT SCREEN LENGTH _____ FT PID AMBIENT AIR *0.0* PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN *7.55* FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) *0.038* GAL PID WELL MOUTH *0.0* PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) *1.24* GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) *~2.1* GAL DRAWDOWN/ TOTAL PURGED *0.018* PSI PRESSURE TO PUMP _____ PSI

WELL INTEGRITY YES NO N/A
CAP ☒ ☐ ☐
CASING ☒ ☐ ☐
LOCKED ☒ ☐ ☐
COLLAR ☒ ☐ ☐

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 0.05) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mV) (+/- 10 mV) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|---|--------------------------------------|---------------------------|------------------------------|-----------------|
| <i>1340</i> | | | | | | | | | | BEGIN PURGING |
| <i>1343</i> | <i>14.54</i> | <i>200</i> | <i>13.75</i> | <i>1163</i> | <i>5.43</i> | <i>9.78</i> | <i>16.78</i> | <i>254.6</i> | | |
| <i>1348</i> | <i>14.35</i> | <i>200</i> | <i>13.35</i> | <i>1127</i> | <i>6.13</i> | <i>10.11</i> | <i>10.27</i> | <i>144.7</i> | | |
| <i>1353</i> | <i>14.63</i> | <i>200</i> | <i>12.59</i> | <i>1122</i> | <i>6.30</i> | <i>9.30</i> | <i>8.10</i> | <i>121.7</i> | | |
| <i>1358</i> | <i>14.63</i> | <i>200</i> | <i>12.62</i> | <i>1129</i> | <i>5.96</i> | <i>7.32</i> | <i>5.41</i> | <i>136.4</i> | | |
| <i>1403</i> | <i>14.64</i> | <i>200</i> | <i>12.71</i> | <i>1131</i> | <i>5.71</i> | <i>7.04</i> | <i>2.71</i> | <i>153.3</i> | | |
| <i>1407</i> | <i>14.64</i> | <i>200</i> | <i>12.73</i> | <i>1129</i> | <i>5.81</i> | <i>7.36</i> | <i>3.61</i> | <i>155.5</i> | | |
| <i>1410</i> | <i>14.64</i> | <i>200</i> | <i>12.71</i> | <i>1127</i> | <i>5.54</i> | <i>7.03</i> | <i>1.76</i> | <i>169.3</i> | | |
| <i>1413</i> | <i>14.64</i> | <i>200</i> | <i>12.66</i> | <i>1129</i> | <i>5.57</i> | <i>7.11</i> | <i>1.23</i> | <i>109.2</i> | | |
| <i>1416</i> | <i>14.64</i> | <i>200</i> | <i>12.56</i> | <i>1128</i> | <i>6.52</i> | <i>7.74</i> | <i>1.64</i> | <i>106.4</i> | | |
| <i>1419</i> | <i>14.64</i> | <i>200</i> | <i>12.58</i> | <i>1127</i> | <i>6.54</i> | <i>7.40</i> | <i>1.80</i> | <i>106.2</i> | | -Collect Sample |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 *1230* *6.5* *7.4* *1.80* *110*

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 1333 = 1330, 0.006 = 0.006)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER _____

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPRODE SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

NO. ☒ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|---------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <i>✓</i> <i>DOC</i> | <i>8260</i> | <i>N</i> | <i>ITCC</i> | <i>3x40mL</i> | <i>✓</i> | <i>N</i> | |
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PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☐ YES ☒ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED *~2.1*

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

MW-011

Residence

75 ft

6 ft

17 ft

14 ft

12 ft

10 ft

8 ft

6 ft

4 ft

2 ft

0 ft

Sampler Signature: *[Signature]* Print Name: *Ryan Torrey*

Checked By: *TDL* Date: *5-21-13*

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
3612112209.02

SAMPLE ID
ATMW00112013XX

SAMPLE TIME
830

LOCATION ID
ATMW-001

DATE
5/7/13

START TIME
748

END TIME
830

SITE NAME/NUMBER
—

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BNP) **14.82** FT FINAL DTW (BNP) **15.14** FT PROT. CASING STICKUP (ACS) **FLUSH** FT

WELL DEPTH (BNP) **18.9** FT SCREEN LENGTH **—** FT PID AMBIENT AIR **—** PPM

WATER COLUMN **4.08** FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) **0.052** GAL

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **0.67** GAL TOTAL VOL. PURGED **2.16** GAL DRAWDOWN/ TOTAL PURGED **0.024**

WELL INTEGRITY YES NO N/A
CAP ☒ ☐ ☐
CASING ☒ ☐ ☐
LOCKED ☒ ☐ ☐
COLLAR ☒ ☐ ☐

TOC/TOR DIFFERENCE **—** FT
REFILL TIMER SETTING **—** SEC
DISCHARGE TIMER SETTING **—** SEC
PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (± 0.3 degrees) | SP. CONDUCTANCE (mS/cm) (± 3%) | pH (units) (± 0.1 units) | DISS. O ₂ (mg/L) (± 10%) | TURBIDITY (ntu) (± 10% <10 ntu) | REDOX (mv) (± 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--------------------------------------|-----------------------------|--|------------------------------------|-------------------------|------------------------------|----------|
| 748 | BEGIN PURGING | | | | | | | | | |
| 754 | 15.14 | 200 | 10.96 | 0.896 | 6.50 | 6.74 | 37.06 | -116.4 | 16.5 | |
| 759 | 15.14 | 200 | 10.93 | 0.923 | 6.51 | 6.23 | 29.83 | -106.1 | 16.5 | |
| 804 | 15.14 | 200 | 11.07 | 0.940 | 6.50 | 6.23 | 19.52 | -102.9 | 16.5 | |
| 809 | 15.14 | 200 | 11.06 | 0.950 | 6.38 | 6.26 | 11.70 | -85.0 | 16.5 | |
| 814 | 15.14 | 200 | 11.05 | 0.956 | 6.29 | 6.22 | 8.18 | -72.0 | 16.5 | |
| 817 | 15.14 | 200 | 11.25 | 0.956 | 6.27 | 6.24 | 7.47 | -87.9 | 16.5 | |
| 820 | 15.14 | 200 | 11.31 | 0.959 | 6.27 | 6.23 | 6.28 | -89.7 | 16.5 | |
| 823 | 15.14 | 200 | 11.34 | 0.960 | 6.26 | 6.19 | 4.23 | -90.1 | 16.5 | |
| 826 | 15.14 | 200 | 11.33 | 0.962 | 6.31 | 6.17 | 3.94 | -95.8 | 16.5 | |
| 829 | 15.14 | 200 | 11.29 | 0.965 | 6.25 | 6.16 | 2.89 | -91.1 | 16.5 | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

11 0.965 6.3 0.2 2.9 -91

TEMP: nearest degree (ex. 10.1 - 10)
COND: 1 SF max (ex. 333) = 330, 0.6% = 0.606
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 1 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
DPP: 2 SF (44.1 = 44, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP BLADDER MATERIALS ☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLOX LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER

EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☒ TURB. METER ☒ PUMP ☐ OTHER ☐ FILTERS NO. ☐ TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOL | 8260 | N | HCL | 3x40ml | 4 | N | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☐ YES ☒ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~2.16**

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

BROADWAY STREET

ATMW-001

Assoc. TEX. BLDG.

Sampler Signature: **R. J. J.** Print Name: **Ryan Jorrey**

Checked By: **TDL** Date: **5-21-13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLOWERS

PROJECT NUMBER
3612112309.02

SAMPLE ID
ATMW00212013XX

SAMPLE TIME
17:35

LOCATION ID
ATMW-002

DATE
5-6-13

START TIME
16:40

END TIME
17:40

SITE NAME/NUMBER
ASSOC. TAPRILE

PAGE
1 OF 1

NO BOLT
TO ANCHOR DOWN
THE WELL COVER

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MIP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

INITIAL DTW (BMF) **14.30** FT FINAL DTW (BMF) **14.91** FT PROT. CASING STICKUP (ACS) **FLUSH** FT

WELL DEPTH (BMF) **~18.80** FT SCREEN LENGTH **—** FT PID AMBIENT AIR **0.0** PPM

WATER COLUMN **4.5** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.10** GAL

CALCULATED GALVOL **0.74** GAL TOTAL VOL. PURGED **~2.1** GAL

DISCHARGE TIMER SETTING **—** SEC

WELL INTEGRITY YES ☒ NO ☐ N/A

CAP ☒ CASING ☒ LOCKED ☒ COLLAR ☒

TOC/TOR DIFFERENCE **-0.6** FT

REFILL TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

| TIME 3-5 Minutes | DTW (+/-) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|--------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|---|
| 16:48 | | | | | | | | | | BEGIN PURGING 500 ml - sealed back TO 220 |
| 16:55 | 14.95 | 220 | 12.93 | 0.720 | 6.42 | 1.51 | 17.62 | -61.9 | 3' | off bottom |
| 17:00 | 14.95 | 220 | 12.85 | 0.779 | 6.40 | 0.34 | 19.47 | -70.3 | — | FINE SUSPENDED BLACK PEECES |
| 17:05 | 14.95 | 220 | 12.65 | 0.881 | 6.44 | 0.32 | 4.65 | -75.8 | — | |
| 17:10 | 14.95 | 220 | 12.56 | 0.947 | 6.50 | 0.23 | 8.60 | -76.7 | — | |
| 17:20 | 14.89 | 220 | 12.60 | 1.059 | 6.60 | 0.17 | 5.35 | -77.2 | — | |
| 17:25 | 14.84 | 220 | 12.69 | 1.101 | 6.61 | 0.27 | 9.49 | -73.7 | — | |
| 17:30 | 14.91 | 220 | 12.53 | 1.110 | 6.60 | 0.26 | 7.86 | -72.5 | — | |
| 17:35 | | | | | | | | | | Sample |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

13 1.1 6.6 0.3 7.9 -73

TEMP. nearest degree (ex. 10.1 = 10)
CONC. 3 SF max (ex. 3333 = 3330, 0.006 = 0.006)
pH nearest tenth (ex. 5.53 = 5.5)
DO nearest tenth (ex. 3.31 = 3.3)
TURB. 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP 2 SF (441 = 44, 121 = 120)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER

EQUIPMENT USED ☒ WI. METER ☒ PID ☒ DO METER ☒ TURB. METER ☐ RUMP ☐ OTHER ☐ FILTERS NO. ☐ TYPE

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOC | 8260B | N | Acid, 4°C | 3x40ml | g | — | — |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☒

NUM. PURGE METHOD UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED **~2.1**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: **Th. D. Longley** Print Name: **Thomas D. Longley**

Checked By: **B. J. J.** Date: **5-6-13 5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

Musty "old" FUEL ODOR
Looks Like well may be flooded in HIGH WATER
LOT OF AIR BUBBLES comes up line

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
30212209.02

SAMPLE ID
ATMW00312013XX

SAMPLE TIME
16:25

LOCATION ID
ATMW-003

DATE
5-6-13

START TIME
15:30

END TIME
16:25

SITE NAME/NUMBER
Assoc. Twp. #10

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

| YES | NO | N/A |
|-------------------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

INITIAL DTW (BMP) **14.61** FT FINAL DTW (BMP) **14.72** FT PROT. CASING STICKUP (ACS) **FLUSH** FT TOC/TOR DIFFERENCE **-0.35** FT

WELL DEPTH (BMP) **19.90** FT SCREEN LENGTH **2** FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING **SEC**

WATER COLUMN **5.29** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.018** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING **SEC**

CALCULATED GAL/VOL **0.87** OAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) **~3.6** OAL DRAWDOWN/ TOTAL PURGED **0.006** PSI PRESSURE TO PUMP **PSI**

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|-----------------------|-------------------------------------|------------------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------|
| 15:35 | | BEGIN PURGING @ 300 mL/min. | | | | | | | | |
| 15:45 | 14.71 | 300 | 11.20 | 0.443 | 6.48 | 5.54 | 24.36 | 176.8 | 3' up from bottom | |
| 15:55 | 14.72 | 300 | 11.33 | 0.493 | 6.72 | 3.69 | 18.80 | 166.7 | | |
| 16:00 | 14.72 | 300 | 11.36 | 0.514 | 6.74 | 3.27 | 4.73 | 164.1 | | |
| 16:05 | 14.72 | 300 | 11.33 | 0.532 | 6.77 | 3.11 | 16.14 | 163.9 | | |
| 16:10 | 14.72 | 300 | 11.38 | 0.536 | 6.80 | 3.05 | 1.52 | 163.7 | | |
| 16:15 | 14.72 | 300 | 11.32 | 0.541 | 6.79 | 2.89 | 0.00 | 164.2 | | |
| 16:20 | 14.72 | 300 | 11.28 | 0.544 | 6.79 | 2.84 | 0.00 | 164.8 | | |
| Sample @ 16:25 | | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

11 0.544 6.8 2.8 0.00 160

TRANSPIRANT DEGREE (ex. 10.1 = 10)
COND: 3 SF data (ex. 3333 = 3330, 0.005 = 0.005)
pH: nearest tenth (ex. 3.51 = 3.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
O₂: 2 SF (44.1 = 44, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

DECON FLUIDS USED: ☒ DIIONIX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

EQUIPMENT USED: ☒ WELL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBER |
|-------------|---------------|----------------|---------------------|-----------------|------------------|--------------|-------------------------|
| VOCs | 8260B | N | HCL, 4°C | 3x40mL | g | - | |

PURGE OBSERVATIONS

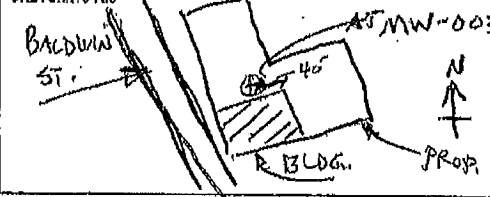
PURGE WATER CONTAINERIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED **~3.6**

NUMBER OF METHOD UTILIZED ☐ YES ☒ NO

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location

SKETCH/NOTES



Sampler Signature: **Thomas D. Longley** Print Name: **Thomas D. Longley**

Checked By: **R. J. J.** Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

PLACED NEW
SILASTIC TUBING & 1/4" LDPE
DEDICATED TO THE WELL

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122 09.02

SAMPLE ID
ATMW004/2013 XX

SAMPLE TIME
0840

LOCATION ID
ATMW-004

DATE
5-7-13

START TIME
07:30

END TIME
08:50

SITE NAME/NUMBER
Assoc. Textile

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BMP) **14.69** FT FINAL DTW (BMP) **14.77** FT PROT. CASING STICKUP (ACS) **Flush** FT

WELL DEPTH (BMP) **17.7** FT SCREEN LENGTH _____ FT PID AMBIENT AIR _____ PPM

WATER COLUMN **3.01** FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) **0.013** GAL

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **1.97** GAL TOTAL VOL. PURGED **~3.9** GAL

PID WELL MOUTH _____ PPM DRAWDOWN/ TOTAL PURGED **0.07**

WELL INTEGRITY YES NO N/A
CAP ☒ ☐ ☐
CASING ☒ ☐ ☐
LOCKED ☒ ☐ ☐
COLLAR ☒ ☐ ☐

TOC/TOR DIFFERENCE **-0.4** FT

REFILL TIMER SETTING _____ SEC

DISCHARGE TIMER SETTING _____ SEC

PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDUX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------|
| 0744 | BEGIN PURGING | C 320 mL/min | | | | | | | | |
| 0755 | 14.77 | 300 | 10.54 | 0.943 | 6.61 | 0.72 | 18.9 | -102.2 | 1' off | bottom |
| 0800 | 14.77 | 300 | 10.48 | 0.948 | 6.58 | 0.44 | 14.3 | -125.3 | | |
| 0810 | 14.77 | 300 | 10.58 | 0.951 | 6.55 | 0.37 | 10.2 | -141.0 | | |
| 0810 | 14.77 | 300 | 10.68 | 0.966 | 6.54 | 0.37 | 5.99 | -112.0 | | |
| 0815 | 14.77 | 300 | 10.74 | 0.977 | 6.53 | 0.33 | 5.72 | -92.8 | | |
| 0820 | 14.77 | 300 | 10.75 | 0.986 | 6.53 | 0.26 | 3.87 | -112.6 | | |
| 0825 | 14.77 | 300 | 10.84 | 0.989 | 6.53 | 0.21 | 2.51 | -108.5 | | |
| 0830 | 14.77 | 300 | 10.91 | 0.995 | 6.53 | 0.19 | 1.96 | -107.1 | | |
| 0835 | 14.77 | 300 | 10.93 | 0.996 | 6.53 | 0.19 | 1.96 | -106.4 | | |
| 0840 | Sample | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

11 0.996 6.5 0.2 2.0 110

TEMP: mean of 10 (10.1 - 10.9)
COND: 3 SF max (ex. 333) = 3330, 0.095 = 0.095
pH: record only (ex. 3.55 = 3.55)
DO: record only (ex. 2.51 = 2.51)
TCHD: 3 SF max, record only (6.19 = 6.2, 101 = 101)
QAP: 3 SF (441 = 441, 191 = 191)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☒ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATER
☒ OTHER **Geopump**
☐ OTHER _____

DECON FLUIDS USED
☒ LIQUINOX
☐ DIIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER _____

TUBING/PUMP BLADDER MATERIALS
☒ SILICON TUBING
☐ TEFLOX TUBING
☐ TEFLOX LINED TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER _____
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ TEFLOX BLADDER
☐ OTHER _____
☐ OTHER _____

EQUIPMENT USED
☒ WL METER
☐ PID
☒ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER _____
FILTERS NO. ☒ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOL | 8260B | N | HCR 7/2 | 3x40ml | y | | |
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PURGE OBSERVATIONS

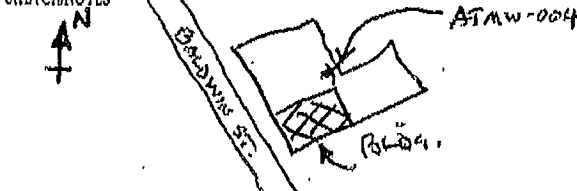
PURGE WATER CONTAMINATED YES ☐ NO ☒

NO PURGE METHOD UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED **~3.9**

If yes, purge approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature **Th. D. Ingle** Print Name: **Thomas D. Ingle**

Checked By: **R. J. Ingle** Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

OLD "Fuel-Like" odor

FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

[illegible]

| LOW FLOW GROUNDWATER SAMPLING RECORD | | | | | | | | | | | | | |
|--|--------------------------------------|--|-------------------------------|--|-------------------------------|---|--------------------------------------|---|------------------------------|--|--|----------------------------------|--|
| PROJECT NAME Diamond Cleaners | | | | LOCATION ID ATMWOOD06 | | DATE 5/16/13 | | | | | | | |
| PROJECT NUMBER 3612112209.02 | | | | START TIME 1457 | | END TIME 1526 | | | | | | | |
| SAMPLE ID ATMWOOD612013XX | | | | SAMPLE TIME 1526 | | PAGE 1 OF 1 | | | | | | | |
| WELL DIAMETER (INCHES) <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> OTHER _____ | | | | TUBING ID (INCHES) <input checked="" type="checkbox"/> 1/8 <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8 <input type="checkbox"/> OTHER _____ | | | | WELL INTEGRITY YES NO N/A CAP <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CASING <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> LOCKED <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> COLLAR <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | | | |
| MEASUREMENT POINT (MP) <input checked="" type="checkbox"/> TOP OF RISER (TOR) <input type="checkbox"/> TOP OF CASING (TOC) <input type="checkbox"/> OTHER _____ | | | | INITIAL DTW (BMP) 13.88 FT | | | | FINAL DTW (BMP) 15.42 FT | | PROT. CASING STICKUP (AGS) FLUSH FT | | TOCTOR DIFFERENCE 0.50 FT | |
| WELL DEPTH (BMP) 19.01 FT | | | | SCREEN LENGTH N/A FT | | | | PID AMBIENT AIR 0.0 PPM | | REFILL TIMER SETTING — SEC | | | |
| WATER COLUMN 5.13 FT | | | | DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 1.06 GAL | | | | PID WELL MOUTH 0.0 PPM | | DISCHARGE TIMER SETTING — SEC | | | |
| CALCULATED GAL/VOL 0.84 GAL (column X well diameter squared X 0.041) | | | | TOTAL VOL. PURGED 1.69 GAL (mL per minute X total minutes X 0.000226 gal/mL) | | | | DRAWDOWN/ TOTAL PURGED ~0.6 | | PRESSURE TO PUMP — PSI | | | |
| FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP) | | | | | | | | | | | | | |
| TIME 3-5 Minutes | DIW (+/-) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS | | | |
| 1457 | BEGIN PURGING | | | | | | | | | | | | |
| 1500 | 14.29 | 250 | 13.40 | 1644 | 6.42 | 0.83 | 22.70 | -72.8 | 18.0 | | | | |
| 1505 | 14.46 | 250 | 13.28 | 1640 | 6.28 | 0.47 | 16.84 | -52.7 | 18.0 | | | | |
| 1510 | 14.57 | 250 | 13.09 | 1631 | 6.33 | 0.31 | 19.27 | -64.2 | 18.0 | | | | |
| 1515 | 15.14 | 250 | 13.19 | 1624 | 6.36 | 0.30 | 7.09 | -67.6 | 18.0 | | | | |
| 1520 | 15.35 | 250 | 13.31 | 1632 | 6.35 | 0.29 | 6.71 | -62.7 | 18.0 | | | | |
| 1523 | 15.42 | 250 | 13.34 | 1632 | 6.39 | 0.32 | 4.43 | -65.7 | 18.0 | collect sample @ 1526 | | | |
| 1526 | | | | | | | | | | | | | |
| FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures (SF)) | | | | | | | | | | | | | |
| | 13 | 1630 | 6.4 | 0.3 | 4.43 | -66 | | | | | | | |
| EQUIPMENT DOCUMENTATION | | | | | | | | | | | | | |
| TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | DECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINOX <input checked="" type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER | | TUBING/PUMP BLADDER MATERIALS <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER | | EQUIPMENT USED <input checked="" type="checkbox"/> WL METER <input checked="" type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER <input checked="" type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. ✓ TYPE | | | | | |
| ANALYTICAL PARAMETERS | | | | | | | | | | | | | |
| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS | | | | | | |
| VOC | 8260 | N | HCL | 3x40mL | ✓ | N | | | | | | | |
| PURGE OBSERVATIONS | | | | | | | | | | | | | |
| PURGE WATER CONTAMINIZED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | | NUMBER OF GALLONS GENERATED ~1.7 | | SKETCH/NOTES | | | | | | | | | |
| NON-PURGE METHOD UTILIZED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | | If you purge approximately 1 standing volume prior to sampling or _____ mL for this sample location. | | | | | | | | | | | |
| Sampler Signature: [Signature] Print Name: Ryan Torrey | | Date: 5-21-13 | | | | | | | | | | | |
| Checked By: TDL | | | | | | | | | | | | | |

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Baldwin Cleaners & Assoc. Text.

PROJECT NUMBER
3652112209.02

SAMPLE ID
ATMW00712013 XK

SAMPLE TIME
15:10

LOCATION ID
ATMW-007

DATE
5-6-13

START TIME
13:27

END TIME
15:10

SITENAME/NUMBER
ASSOC. TEXTILE

PAGE
1 of 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (NP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BNP) 14.32 FT FINAL DTW (BNP) 14.31 FT PROT. CASING STICKUP (AGS) _____ FT TOC/TOR DIFFERENCE -0.50 FT

WELL DEPTH (BNP) 19.15 FT SCREEN LENGTH _____ FT PID AMBIENT AIR NA PPM REPIII TIMER SETTING _____ SEC

WATER COLUMN 4.83 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.004 GAL PID WELL MOUTH NA PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) 3.57 GAL TOTAL VOL. PURGED 4.44 GAL DRAWDOWN/ TOTAL PURGED _____ PSI

WELL INTEGRITY YES NO N/A
CAP ☒ LOCKED ☒ COLLAR ☒

| FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP) | | | | | | | | | | |
|--|-------------------------------|---------------------|----------------------------|----------------------------------|----------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|---------------|
| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
| 13:56 | | | | | | | | | | BEGIN PURGING |
| 13:56 | 14:31 | 250 | 12.86 | 1.015 | 6.44 | 1.56 | 182.3 | 54.6 | 3' up | from bottom |
| 14:05 | 14:32 | 260 | 12.88 | 0.890 | 6.18 | 0.45 | 80.58 | 17.9 | | |
| 14:12 | 14:32 | 320 | 12.88 | 0.867 | 6.47 | 1.38 | 74.32 | -9.3 | | Δ speed |
| 14:20 | 14:32 | 300 | 12.02 | 0.873 | 6.87 | 0.35 | 62.28 | -19.4 | | |
| 14:30 | 14:32 | 300 | 11.93 | 0.882 | 6.65 | 0.30 | 39.59 | -27.0 | | |
| 14:35 | 14:32 | 300 | 12.03 | 0.891 | 6.68 | 0.23 | 26.29 | -29.4 | | |
| 14:45 | 14:32 | 300 | 11.90 | 0.903 | 6.71 | 0.21 | 21.40 | -32.4 | | |
| 14:55 | 14:31 | 320 | 11.96 | 0.906 | 6.73 | 0.18 | 18.80 | -33.5 | | |
| 15:00 | 14:31 | 330 | 11.81 | 0.906 | 6.76 | 0.20 | 16.69 | -32.4 | | |
| 15:05 | 14:31 | 330 | 11.98 | 0.910 | 6.75 | 0.20 | 10.11 | -33.4 | | |
| 15:10 | 14:31 | 330 | 11.96 | 0.911 | 6.76 | 0.20 | 10.08 | -33.0 | | |

Sample FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

DTW (ft) 12 SP. CONDUCTANCE (mS/cm) 0.911 pH (units) 6.8 DISS. O₂ (mg/L) 0.2 TURBIDITY (ntu) 10.1 REDOX (mv) -33

TEMP. (°C) 12.86 PURGE RATE (mL/min) 330 PUMP INTAKE DEPTH (ft) 3

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ OTHER Geopump ☐ OTHER _____

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

5. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROB SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

FILTERS NO. ✓ TYPE _____

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| 8260B VOC | 8260 B | ✓ | HCL, 40C | 3 x 40ml | yes | ✓ | |
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PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED YES ☐ NO ☒

NO. OF PURGE METHOD UTILIZED YES ☐ NO ☒

NUM. OF GALLONS GENERATED _____

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

Sampler Signature Thomas D. Hughes Print Name: Thomas D. Hughes

Checked By: 5/22/13 Date: 5-6-13 5/22/13

SKETCH/NOTES

BALDWIN STREET

ATMW-007

WELL HEAD NOT BOLTED SHUT

AT PROP. BLDG.

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
ATMW008/2013XX

SAMPLE TIME
10:00

LOCATION ID
ATMW-008

DATE
5-7-13

START TIME
0900

END TIME
1005

SITE NAME/NUMBER
Assoc. Tapile

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY
YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

INITIAL DTW (BNP) **14.20** FT FINAL DTW (BNP) **14.26** FT

WELL DEPTH (BNP) **19.1** FT SCREEN LENGTH **—** FT

WATER COLUMN **4.9** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.00** GAL

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **3.2** GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) **2.7** GAL

PROT. CASING STICKUP (ACS) **PLUS 5 FT** TOC/TOR DIFFERENCE **-0.3** FT

PID AMBIENT AIR **—** PPM REMILL TIMER SETTING **—** SEC

PID WELL MOUTH **—** PPM DISCHARGE TIMER SETTING **—** SEC

DRAWDOWN/ TOTAL PURGED **0.004** PSI PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDUX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------|
| 0909 | BEGIN PURGING @ 300 mL/min | | | | | | | | | |
| 0915 | 14.27 | 300 | 11.46 | 1.010 | 6.79 | 4.95 | 12.8 | 52.8 | 1' off bottom | |
| 0920 | 14.28 | 300 | 11.30 | 1.004 | 6.80 | 4.20 | 10.1 | 59.3 | | |
| 0925 | 14.38 | 300 | 11.31 | 1.002 | 6.82 | 3.60 | 7.03 | 62.7 | | |
| 0930 | 14.25 | 270 | 11.53 | 1.002 | 6.83 | 3.16 | 6.19 | 67.8 | | |
| 0940 | 14.26 | 270 | 11.52 | 0.998 | 6.84 | 3.04 | 3.42 | 68.7 | | |
| 0945 | 14.26 | 270 | 11.59 | 0.993 | 6.84 | 2.50 | 4.25 | 70.8 | | |
| 0950 | 14.26 | 270 | 11.52 | 0.997 | 6.84 | 2.30 | 2.64 | 71.0 | | |
| 0955 | 14.26 | 270 | 11.53 | 0.993 | 6.85 | 2.20 | 2.50 | 71.6 | | |
| 10:00 | Single | | | | | | | | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 0.993 6.8 2.2 2.5 72

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 1333 = 1330, 0.026 = 0.026)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (0.19 = 0.2, 101 = 101)
DRP: 3 SF (44.1 = 44.1, 191 = 191)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☒ PERISTALTIC SUBMERSIBLE BLADDER ☐ WATER ☒ OTHER **Geo Pump**

DECONTAMINANTS USED: ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP/BLADDER MATERIALS: ☒ SILICON TUBING ☐ TEFLOX TUBING ☐ TEFLOX LINED TUBING ☒ HDPE TUBING ☐ LDPE TUBING ☐ OTHER _____

PUMP MATERIALS: ☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROB SCREEN ☐ TEFLOX BLADDER ☐ OTHER _____

EQUIPMENT USED: ☒ WL METER ☐ PID ☒ WQ METER ☐ TURD. METER ☐ PUMP ☐ OTHER _____

FILTERS: NO ☒ TYPE _____

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| VOCs | 8260 B | N | HCL, 4°C | 3x40 mL | Y | — | — |
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PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐

NO. PURGE METHOD UTILIZED: YES ☐ NO ☒

NUMBER OF GALLONS GENERATED: **2.7**

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: **Th. D. Lofly** Print Name: **Thomas D. Lofly**

Checked By: **R. J. J.** Date: **5-7-13, 5/22/13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
3612 1122 09.02

SAMPLE ID
ATMW00912013XX

SAMPLE TIME
1106

LOCATION ID
ATMW-009

DATE
5/7/13

START TIME
1022

END TIME
1106

SITE NAME/NUMBER
—

PAGE
1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 3/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BNP) 14.61 FT FINAL DTW (BNP) 14.65 FT PROT. CASING STICKUP (AGS) flush FT TOC/TOR DIFFERENCE — FT

WELL DEPTH (BNP) 19.5 FT SCREEN LENGTH — FT PID AMBIENT AIR — PPM REFILL TIMER SETTING — SEC

WATER COLUMN 4.89 FT DRAWDOWN VOLUME 0.0065 GAL (Initial DTW - final DTW X well diam. squared X 0.041) PID WELL MOUTH — PPM DISCHARGE TIMER SETTING — SEC

CALCULATED GAL/VOL. 0.8 GAL TOTAL VOL. PURGED 2.2 GAL DRAWDOWN/ TOTAL PURGED 0.0029 PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

WELL INTEGRITY

YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (FT) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------|
| 1022 | BEGIN PURGING | | | | | | | | | |
| 1027 | 14.65 | 200 | 11.83 | 0.407 | 6.44 | 4.22 | 23.16 | 75.4 | 17.0 | |
| 1032 | 14.65 | 200 | 11.44 | 0.463 | 6.04 | 3.36 | 16.37 | 67.3 | 17.0 | |
| 1037 | 14.65 | 200 | 11.19 | 0.546 | 6.19 | 2.57 | 2.76 | 65.4 | 17.0 | |
| 1042 | 14.65 | 200 | 11.16 | 0.598 | 6.32 | 2.07 | 3.34 | 65.3 | 17.0 | |
| 1047 | 14.65 | 200 | 11.40 | 0.640 | 6.59 | 1.54 | 0.09 | 63.0 | 17.0 | |
| 1052 | 14.65 | 200 | 11.36 | 0.667 | 6.56 | 1.30 | 0.17 | 63.4 | 17.0 | |
| 1055 | 14.65 | 200 | 11.41 | 0.682 | 6.65 | 1.14 | 0.71 | 58.5 | 17.0 | |
| 1058 | 14.65 | 200 | 11.36 | 0.696 | 6.65 | 1.00 | 0.00 | 58.4 | 17.0 | |
| 1101 | 14.65 | 200 | 11.47 | 0.703 | 6.68 | 1.04 | 0.00 | 55.4 | 17.0 | |
| 1104 | 14.65 | 200 | 11.47 | 0.706 | 6.69 | 1.04 | 0.00 | 54.1 | 17.0 | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

11 0.706 6.7 1.0 0.0 54

TEST: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.004 = 0.004)
pH: nearest tenth (ex. 5.55 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
DUP: 2 SF (+/- 44, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER

DECON FLUIDS USED ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER _____

TUBING/PUMP BLADDER MATERIALS ☒ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER _____

S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEO/PROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER _____

EQUIPMENT USED ☒ WL METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER _____

FILTERS NO. — TYPE —

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <u>VOC</u> | <u>8260</u> | <u>N</u> | <u>HCL</u> | <u>3x10mL</u> | <u>Y</u> | <u>N</u> | <u>—</u> |
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PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED ☒ YES ☐ NO

NO. PURGE METHOD UTILIZED ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED 2.2

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Asoc. Textile Bldg.

ATMW-009

5.21-13

Sampler Signature: R. J. J. Print Name: Ryan J. J.

Checked By: T.D.L. Date: 5.21-13

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME DIAMOND CLEANERS
 PROJECT NUMBER 3612112209.02
 SAMPLE ID ATMW001R12013XX SAMPLE TIME 940

LOCATION ID ATMW-001R DATE 5/7/13
 START TIME 900 END TIME 940
 SITE NAME/NUMBER — PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER _____
 TUBING ID (INCHES) ☒ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____
 MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER _____
 INITIAL DTW (BMP) 14.38 FT FINAL DTW (BMP) 14.72 FT PROT. CASING STICKUP (ACS) FLUSH FT
 WELL DEPTH (BMP) 19.67 FT SCREEN LENGTH — FT PID AMBIENT AIR — PPM
 WATER COLUMN 5.29 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.22 GAL
 CALCULATED GAL/VOL 3.47 TOTAL VOL. PURGED 4.9 GAL DRAWDOWN/ TOTAL PURGED 0.12
 (column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

WELL INTEGRITY YES NO N/A
 CAP ☒ ☐ ☐
 CASING ☒ ☐ ☐
 LOCKED ☒ ☐ ☐
 COLLAR ☒ ☐ ☐
 TOC/TOR DIFFERENCE — FT
 REFILL TIMER SETTING — SEC
 DISCHARGE TIMER SETTING — SEC
 PRESSURE TO PUMP — PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME 3-5 Minutes | DTW (ft) 0.0-0.33 ft Drawdown | PURGE RATE (mL/min) | TEMP. (°C) (+/- 3 degrees) | SP. CONDUCTANCE (mS/cm) (+/- 3%) | pH (units) (+/- 0.1 units) | DISS. O ₂ (mg/L) (+/- 10%) | TURBIDITY (ntu) (+/- 10% <10 ntu) | REDOX (mv) (+/- 10 mv) | PUMP INTAKE DEPTH (ft) | COMMENTS |
|---------------------|-------------------------------------|------------------------|-------------------------------|--|-------------------------------|--|--------------------------------------|---------------------------|------------------------------|----------------------|
| 900-851 | | | | | | | | | | BEGIN PURGING |
| 905 | 14.63 | 200 | 11.91 | 0.409 | 6.30 | 0.52 | 15.38 | -28.6 | 16.6 | |
| 910 | 14.71 | 200 | 11.62 | 0.406 | 6.20 | 0.26 | 13.51 | -29.6 | 16.6 | |
| 915 | 14.72 | 200 | 11.68 | 0.416 | 6.24 | 0.24 | 15.18 | -39.0 | 16.6 | |
| 920 | 14.72 | 200 | 11.82 | 0.439 | 6.27 | 0.26 | 6.20 | -37.5 | 16.6 | |
| 925 | 14.72 | 200 | 11.79 | 0.486 | 6.30 | 0.21 | 4.71 | -41.2 | 16.6 | |
| 930 | 14.72 | 200 | 11.87 | 0.527 | 6.34 | 0.19 | 4.91 | -49.6 | 16.6 | |
| 933 | 14.72 | 200 | 11.90 | 0.542 | 6.36 | 0.15 | 3.99 | -49.2 | 16.6 | |
| 936 | 14.72 | 200 | 11.93 | 0.550 | 6.38 | 0.16 | 3.49 | -50.2 | 16.6 | |
| | | | | | | | | | | Collect Sample @ 940 |
| | | | | 0.550 | 6.4 | 0.2 | 3.5 | -50 | | |

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

12 0.550 6.4 0.2 3.5 -50

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 3333 = 3330, 0.006 = 0.006)
 pH: nearest tenth (ex. 5.53 = 5.5)
 DO: nearest tenth (ex. 3.51 = 3.5)
 TURB: 3 SF max, nearest tenth (ex. 6.19 = 6.2, 101 = 101)
 ORP: 2 SF (ex. 14.1 = 14, 121 = 120)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER
 WATER: ☐ WATER ☐ OTHER ☐ OTHER
 DECON FLUIDS USED: ☒ LIQUINOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER
 TUBING PUMP BLADDER MATERIALS: ☐ SILICON TUBING ☐ TEFLON TUBING ☐ TEFLON LINED TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER
 S. STEEL PUMP MATERIAL: ☐ PVC PUMP MATERIAL ☐ QUOPROBE SCREEN ☐ TEFLON BLADDER ☐ OTHER
 EQUIPMENT USED: ☒ WL METER ☐ PID ☒ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. ✓ TYPE —

ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <u>VOL</u> | <u>8260</u> | <u>N</u> | <u>HCL</u> | <u>3x40mL</u> | <u>905</u> | <u>N</u> | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☐ YES ☒ NO
 NO. PURGE METHOD UTILIZED: ☐ YES ☒ NO
 NUMBER OF GALLONS GENERATED: ~1.9
 If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

DIAMOND ST.
ATMW-001R
Textile Base.
N
↑

Sampler Signature: T.D.L. Print Name: Ryan Torrey
 Checked By: T.D.L. Date: 5-21-13



VISUAL CLASSIFICATION OF SOILS

| | | |
|--|--|---|
| PROJECT NUMBER: 3612112009 | PROJECT NAME: Diamond Cleaners | |
| BORING NUMBER: 47GW-002 | COORDINATES: <u> </u> | DATE: 5/9/13 |
| ELEVATION: <u> </u> | GWL: Depth <u>10.9</u> Date/Time <u> </u> | DATE STARTED: <u> </u> |
| ENGINEER/GEOLOGIST: RST | Depth <u>10.9</u> Date/Time <u> </u> | DATE COMPLETED: <u> </u> |
| DRILLING METHODS: Geoprobe - Direct Push | PAGE: 1 OF 1 | |

| DEPTH () | SAMPLE TYPE & NO. | BLOWS ON SAMPLER PER () | RECOVERY % | DESCRIPTION | USCS SYMBOL | MEASURED CONSISTENCY (TSF) | WELL CONSTRUCTION | REMARKS |
|--------------|----------------------|--------------------------------|---------------|------------------------------------|-------------|----------------------------------|----------------------|-------------------|
| | | | 50 | 0-0.2 Top Soil | | | | P.0 |
| | | | | 0.2-3.8 S+G | | | | 0.0 |
| | | | | 3.8-4 Black-Brown med S | | | | |
| | | | 75 | 4-4.3 SAA | | | | |
| | | | | 4.3-5.0 Brown to Bk S+G | | | | |
| | | | | 5.0-5.2 Red/Brown G | | | | 70.3 Moist |
| 7' | XX, MS, MD | | 100 | 5.2-8 Lt Brown C, dense | | | | 20.0 DRY |
| | | | | 8-9.5 S+G, some S+C, wet | | | | 0.0 Wet |
| | | | | Ceramic Pieces @ 9.4' | | | | |
| | | | 100 | 9.5-12 Lt Brown C, very dense, dry | | | | 0.0 dry |
| | | | | 12-12.9 DK Brown S+G, some C, wet | | | | Saturated @ 12.9' |
| 13' | 82600 | | | 12.9-14.5 Brown C+S, wet | | | | |
| | | | | 14.5-15.7 Brown S+G, C | | | | |
| | | | | 15.7-16 Lt Brn C, v. dense, dry | | | | |
| | | | | 16-18 Lt Brown C, v. dense | | | | 0.0 Dry |
| | | | | EOB @ 18' | | | | |

NOTES:

Drilling Contractor: Empire Drilling

Drilling Equipment: Geoprobe

Driller: Tony

Reviewed BY: JB 6/2/13

945 ATGW00213 2013XX

1000 ATGW00207 2013XX

ATGW00207 2013MS

ATGW00207 2013MD

1015 ATGW00212 2013XX

ATGW00212 2013XD

ATGW00212 2013MS

ATGW00212 2013MD

S.1

water



VISUAL CLASSIFICATION OF SOILS

| | | |
|--|--------------------------------|------------------------|
| PROJECT NUMBER: 36121/2209 | PROJECT NAME: Diamond Cleaners | |
| BORING NUMBER: ATGW-026 | COORDINATES: — | DATE: 5/8/13 |
| ELEVATION: — | GWL: Depth 9.7 Date/Time | DATE STARTED: 5/8/13 |
| ENGINEER/GEOLOGIST: RST | Depth Date/Time | DATE COMPLETED: 5/8/13 |
| DRILLING METHODS: Geoprobe-Direct Push | PAGE: 1 OF 1 | |

| DEPTH () | SAMPLE TYPE & NO. | BLOWS ON SAMPLER PER () | RECOVERY () | DESCRIPTION | USCS SYMBOL | MEASURED CONSISTENCY (TSF) | WELL CONSTRUCTION | REMARKS |
|--------------|-------------------------|--------------------------------|-----------------|------------------------------------|-------------|----------------------------------|----------------------|----------------------|
| 1 | | | | 0-0.5 Topsoil | | | | |
| 2 | | | 55% | 1-2' Black Gravel fill | | | | DRY 0.0 |
| 3 | | | | 2-2.5' Brown Silt | | | | |
| 4 | | | | 2.5-3' Red Brick | | | | |
| | | | | 3-4' Brn-Lt Brown Silt | | | | |
| | sample @ 7' + 12' up | | 100% | 4-4.5' Red-Brown C some S | | | | 5' 0.1 ppm |
| | | | | 4.5-6.3' Lt Brwn C + some S | | | | 6.5' 0.5 ppm Dry |
| | | | | 6.3-8' Gray & Brwn C, dense | | | | 7' 3.5 |
| | | | | | | | | 7.5 0.2 |
| | | | | | | | | 8 0.1 |
| | 12' | | 100 | 8-8.4' S4A | | | | 0.0 to 11' Wet @ 9.7 |
| | | | | 8.4-8.9' Dk Brwn-Black S&G, some C | | | | 11.5' 0.4 ppm |
| | | | | 8.9-11.5' Lt Brwn-Gray C, dense | | | | 15' 0.4 ppm |
| | | | | 11.5-12' m-c Sand G | | | | |
| | | | 80 | 12-12.5 S4A | | | | |
| | | | | 12.5-13' Brwn C + S | | | | |
| | | | | 13-16' Brwn S&G Wet | | | | |
| | | | | Collect water @ 1400 | | | | |
| | | | | ATGW02612013XX | | | | |

NOTES:

Drilling Contractor: Empire Drilling
Drilling Equipment: Geoprobe-track mtg
Driller: Tony

ATGW026072013XX@1230
ATGW026072013XD@1237
ATGW026122013XX@1245

REVIEWED BY: JBR 8/2/13

Water ATGW02612013XX



VISUAL CLASSIFICATION OF SOILS

| | | |
|---|--------------------------------|-----------------------|
| PROJECT NUMBER: 361211209 | PROJECT NAME: Diamond Cleaners | |
| BORING NUMBER: ATGW 043 | COORDINATES: — | DATE: 5/8/13 |
| ELEVATION: — | GWL: Depth 13.7 Date/Time | DATE STARTED: " " " |
| ENGINEER/GEOLOGIST: RST | Depth Date/Time | DATE COMPLETED: " " " |
| DRILLING METHODS: Greeprobe - Direct Push | | PAGE: 1 OF 1 |

| DEPTH () | SAMPLE TYPE & NO. | BLOWS ON SAMPLER PER () | RECOVERY () | DESCRIPTION | USCS SYMBOL | MEASURED CONSISTENCY (TSF) | WELL CONSTRUCTION | REMARKS |
|--------------|----------------------|--------------------------------|-----------------|--|-------------|----------------------------------|----------------------|-------------------|
| | | | 80 | 0-0.5 Topsoil | | | | PID 0.0 |
| | | | | 0.5-3 Brun-Black Gravel | | | | |
| | | | | 3-3.5 Brown s | | | | |
| | | | | 3.5-3.7 Stone | | | | |
| | | | 95 | 3.7-4 Red Brick | | | | |
| | | | | 4-5.2 Lt Brown C&s | | | | Wet 5.3-6.3 |
| | | | | 5.2-8 Brun-Gray C&s, dense to s | | | | |
| | 13' | | 90 | (5.3-6.3, loose) | | | | |
| | | | | 8-10 S&A | | | | |
| | | | | 10-10.2 Blk, Red Gravel, s | | | | PID 0.7 ppm @ 12' |
| | 15' | | | 10.2-12 Gray-Lt Brown C, very dense, moist | | | | Wet @ 13.7' |
| | | | | 12-13 Lt Brown clay | | | | 2.0 @ 13' |
| | | | | 13-13.2 Dk Brown-Black s&G | | | | 15' → 0.2 ppm |
| | | | | 13.2-16 Brun s&G, some s | | | | |
| | | | | ATGW 043 13.2 | | | | |
| | | | | S ATGW 043 13.2 013 XX @ 1330 | | | | |
| | | | | S ATGW 043 15.2 013 XX @ 1345 | | | | |
| | | | | GW ATGW 043 12 013 XX @ 1350 | | | | |
| | | | | EOB @ 16' | | | | |

NOTES:

Drilling Contractor: Empire Drilling
Drilling Equipment: Greeprobe - Track Mount
Driller: Tony

Reviewed By: JBR 6/2/13



VISUAL CLASSIFICATION OF SOILS

| | | |
|--|--------------------------------|-------------------|
| PROJECT NUMBER: 3612112209 | PROJECT NAME: Diamond Cleaners | |
| BORING NUMBER: ATGW-045 | COORDINATES: — | DATE: 5/9/13 |
| ELEVATION: — | GWL: Depth 14.4 Date/Time | DATE STARTED: — |
| ENGINEER/GEOLOGIST: RST | Depth Date/Time | DATE COMPLETED: — |
| DRILLING METHODS: Geoprobe-Direct Push | | PAGE: 1 OF 1 |

| DEPTH () | SAMPLE TYPE & NO. | BLOWS ON SAMPLER PER () | RECOVERY % | DESCRIPTION | USCS SYMBOL | MEASURED CONSISTENCY (TSF) | WELL CONSTRUCTION | REMARKS PID Comments |
|---------------|----------------------|--------------------------------|---------------|--|-------------|----------------------------------|----------------------|--|
| | | | 70 | 0-0.3 Top Soil 0.3-2.5 S+G All Material 2.5-4 Lt Brown C | | | | 0.0 Dry |
| | | | 100 | Rock @ 4.2' 4.2-8 Lt Brown C, Dense | | | | 0.0 Dry |
| | | | 100 | 8-8.5 SAA 8.5-8.8 Brown-Black S+G 8.8-10.7 Lt Brown C | | | | 16.4 @ 8.2 3.5 4.8 @ 9.6 |
| 11.5' 8260 | | | 100 | 10.7-12 Brown C, S+G 12-13' SAA 13-13.6 Lt Brown C, some S | | | | 18.4 @ 11.7' 7.8 @ 12.8' 9.4 @ 13.1' |
| 16' | | | 100 | 13.6-13.9 Dk Brown-Bk S+G, C 13.9-15' C, S, G. Lt Brown | | | | 12.3 @ 13.8' Well @ 14.4' |
| | | | | 15-16' Cr G, Dk Gray 16-16.5 Brown-Gray C+G 16.5-19' Rocked Stone Large-Small | | | | 0.0 Saturated |
| | | | | EOB @ 19' | | | | |

NOTES:

Drilling Contractor:

Empire Drilling

Drilling Equipment:

Geoprobe-track mount

Driller:

Tory

Reviewed by: JFR 8/6/13

1058 ATGW045122013XX
1107 ATGW045162013XX

1115 ATGW04512013XX

Water Sample reacting w/ HCL
effervescing



VISUAL CLASSIFICATION OF SOILS

| | | |
|------------------------------------|--------------------------------|-------------------|
| PROJECT NUMBER: 361211209 | PROJECT NAME: Diamond Cleaners | |
| BORING NUMBER: ATGW046 | COORDINATES: — | DATE: 5/8/13 |
| ELEVATION: — | GWL: Depth 14.7 Date/Time | DATE STARTED: — |
| ENGINEER/GEOLOGIST: RST | Depth Date/Time | DATE COMPLETED: — |
| DRILLING METHODS: GP - Direct Push | PAGE: 1 OF 1 | |

| DEPTH () | SAMPLE TYPE & NO. | BLOWS ON SAMPLER PER () | RECOVERY () | DESCRIPTION | USCS SYMBOL | MEASURED CONSISTENCY (TSF) | WELL CONSTRUCTION | REMARKS |
|--------------|----------------------|--------------------------------|-----------------|--------------------------------------|-------------|----------------------------------|----------------------|----------------|
| | | | 85 | 0-0.5 Topsoil | | | | P.O 0.0 |
| | | | | 0.5-3.2 Gray Stone fill | | | | Dry |
| | | | | 3.2-4 Black Gravel | | | | 0.2 @ 5.7' |
| | | | | 4.0-4.2 Brown C, dense | | | | Dry |
| | | | 100 | 4.2-4.9 Gravel | | | | 0.2 @ 10.5' |
| | | | | 4.9-8.0 lt Brown, Gray clay, v dense | | | | Most @ 10.2' |
| | | | | 8-9.3 Stone | | | | 0.3 @ 13.7, Dm |
| | | | | 9.3-9.11 Brown-Gray C, dense | | | | wet @ 14.7 |
| | | | | 9.11 Rock | | | | 0.0 |
| | | | | 9.11-11 Brown m Sand, some C | | | | 0.2 @ 17' |
| | | | | 11-11.3 lt Brown C | | | | |
| | | | | 11.3-12 lt Brown C & G | | | | |
| | | | | 12-13 S&A | | | | |
| | | | | 13-14.7 Brown S&G, some C, | | | | |
| | | | | lessening towards 15 | | | | |
| | | | | 14.7-15.2 lt Brown C, wet @ 14.7 | | | | |
| | | | | 15.2-16 Brown S&G, C | | | | |
| | | | | 16-17 Brown, Red S&C, G | | | | |
| | | | | 17-19 G & S, some C | | | | |

NOTES: COB @ 19' GW Effervescent, Reacting to HCL in vials

Drilling Contractor: Empire Drilling S ATGW046142013XX @ 1432

Drilling Equipment: Grapple S ATGW046172013XX @ 1435

Driller: Tony w ATGW04612013XX @ 1503

Reviewed by: JST 5/2/13

ATGW046 31' 40'

ATTACHMENT 2

LABORATORY DATA AND DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING EVENT
DIAMOND CLEANERS SITE
AND
ASSOCIATED TEXTILES RENTAL SERVICES SITE
ELMIRA, NEW YORK**

1.0 INTRODUCTION

Groundwater and soil samples were collected at the Diamond Cleaners Site (DCS) and at nearby Associated Textiles Rental Services Site (ATRS) in Elmira, New York, in May 2013 and submitted for analysis to TestAmerica Laboratory, located in Buffalo, New York and Edison, New Jersey. Sample results were reported in Sample Delivery Groups (SDGs) 480-38011-1, 480-38151-1, and 480-38152-1. Samples were analyzed for one or more of the following methods:

- Volatile organic compounds (VOCs) by USEPA Method 8260B
- Total solids by EPA Method 160.3

A listing of samples included in this Data Usability Summary Report (DUSR) is presented in Table 1. A summary of the analytical results is presented in Table 2. A summary of sample results qualified during this review is presented in Table 3 (Summary of Data Validation Actions). Tentatively identified compound (TICs) were not evaluated or reported by the laboratory for VOC samples.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A data usability review was completed based on NYSDEC Division of Environmental Remediation guidance for data usability summary reports (NYSDEC, 2010). Quality control (QC) limits from USEPA Region 2 data validation guidelines were used during the data evaluation for VOCs. The remaining methods were evaluated based on lab control limits and the judgment of the chemist. The DUSR review included evaluations of the following items:

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Initial and Continuing Calibration (including tunes for GC/MS)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes
- Internal Standard Response and Retention Times
- Field Duplicates
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

U = target analyte is not detected above the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected and the reported detection limit is estimated

H = lab qualifier indicating that the result was reported from an analysis that exceeded the method hold time

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 Volatile Organic Compounds (VOCs)

VOC - Hold Times

SDG 480-38011-1

Sample ATMW00412013XX was collected on May 7, 2013 and first analyzed on May 19, 2013 within the 14 day hold time. The sample was re-analyzed at a dilution on May 28, 2013 outside the 14-day hold time. Cyclohexane was reported from the dilution analysis and was qualified (H) by the laboratory due to the exceedence of the hold time and was also qualified estimated (J) during validation.

VOC - Initial and Continuing Calibration

SDG 480-38011-1

The initial calibration (April 19, 2013, VOAMS5) associated with samples in SDG 480-38011-1 had average relative response factors (RRF) less than 0.05 for acetone (0.0145) and 2-butanone (0.0310). The analytical instrument demonstrated a response at the low end of the calibration (5 µg/l) for both compounds. Based on professional judgment, non-detect results for acetone and 2-butanone in the associated samples were not rejected. Results for acetone and 2-butanone in the associated samples were qualified as estimated (J/UJ).

In the continuing calibration analyzed on May 19, 2013, the following compounds had a percent difference that exceeded the control limit of 20: dichlorodifluoromethane (-41), 1,1,2-trichloro-1,2,2-trifluoroethane (36), trans-1,2-dichloroethene (21), cis-1,2-dichloroethene (22),

cyclohexane (48), methylcyclohexane (25), and bromoform (-20.1). Results and reporting limits for these compounds were qualified estimated (J/UJ) in the associated samples. The RRF for acetone (0.0144) and 2-butanone (0.032) in this continuing calibration was less than 0.05. Results were qualified as estimated (J/UJ).

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 20, 2013: dichlorodifluoromethane (-28), 1,1,2-trichloro-1,2,2-trifluoroethane (23), trans-1,2-dichloroethene (27), cis-1,2-dichloroethene (29), and cyclohexane (26). These compounds were qualified estimated (J/UJ) in associated samples. The RRF was less than 0.05 for acetone (0.0134) and 2-butanone (0.0322) in this continuing calibration and results were qualified as estimated (J/UJ).

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 21, 2013 (at 05:24): dichlorodifluoromethane (-26), bromomethane (-31), 4-methyl-2-pentanone (-20.9), chlorodibromomethane (-22), 2-hexanone (-23), bromoform (-31), 1,3-dichlorobenzene (-20.2), 1,4-dichlorobenzene (-21), 1,2-dichlorobenzene (-23), 1,2-dibromo-3-chloropropane (-34), and 1,2,4-trichlorobenzene (-30). These compounds were qualified estimated (J/UJ) in associated samples. The RRF was less than 0.05 for acetone (0.0130) and 2-butanone (0.026) in this continuing calibration and results were as estimated (J/UJ).

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 21, 2013 (at 18:40): dichlorodifluoromethane (-32), bromomethane (-33), 1,1,2-trichloro-1,2,2-trifluoroethane (39), trans-1,2-dichloroethene (20.6), cis-1,2-dichloroethene (24), cyclohexane (41), methylcyclohexane (27), bromoform (-21), 1,2-dibromo-3-chloropropane (-24), and 1,2,4-trichlorobenzene (-22). These compounds were qualified estimated (J/UJ) in associated samples. The RRF was less than 0.05 for acetone (0.0127) and 2-butanone (0.0292) in this continuing calibration and results were as estimated (J/UJ).

SDG 480-38151-1

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 21, 2013: acetone (22), 4-methyl-2-pentanone (26), 2-hexanone (22). These compounds were qualified estimated (J/UJ) in all samples reported in SDG 480-38151-1.

SDG 480-38152-1

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 15, 2013: 1,1,2-trichloro-1,2,2-trifluoroethane (31), cyclohexane (20.9), and methylcyclohexane (21). These compounds were qualified estimated (J/UJ) in all samples reported in SDG 480-38151-1.

The results qualified during the review of the initial and continuing calibration data were assigned a reason code of ICVRRF, CCVRRF, and/or CCV%D and are summarized in Table 3.

LCS

SDG 480-38011-1

The following compounds had percent recoveries that were outside of the USEPA Region 2 control limits of 70-130 in the LCS analyzed on May 19, 2013 at 08:22: cyclohexane (150), methyl cyclohexane (133) and dichlorodifluoromethane (64). Detections of cyclohexane and methyl cyclohexane in associated samples were qualified estimated (J). Dichlorodifluoromethane was not detected in associated samples and the reporting limit was qualified as estimated (UJ) in the final data set.

Cyclohexane (144 to 147) was recovered above the upper control limit of 130 percent in the LCS samples analyzed on May 20 and 21st, 2013. Detections of cyclohexane in associated samples were qualified estimated (J).

Qualified results for cyclohexane, methyl cyclohexane and dichlorodifluoromethane were assigned a reason code of LCS-H or LCS-L and are summarized in Table 3.

VOC - Matrix Spikes

Matrix spike and matrix spike duplicates were evaluated based on Region 2 control limits of 70 – 130 percent and relative percent differences (RPDs) between the MS and MSD recoveries of 20.

SDG 480-38011-1

Matrix spike and matrix spike duplicate analyses were performed on the following groundwater samples: DCMW00412013XX, ATGW04312013XX, and ATMW00112013XX.

The following compounds had percent recoveries outside the control limits in the spikes analyzed on DCMW00412013XX: dichlorodifluoromethane (MS = 36 and MSD = 39), tetrachloroethene (MS = -17 and MSD = 21), trichlorofluoromethane (MS = 64), 1,2,4-trichlorobenzene (RPD = 25). Dichlorodifluoromethane, trichlorofluoromethane and 1,2,4-trichlorobenzene were not detected in the un-spiked sample and the reporting limit was qualified estimated (UJ) in the final data set. The concentration of tetrachloroethene in the un-spiked sample was greater than four times the concentration spike into the MS and MSD and therefore the spike recoveries were not evaluated.

The following compounds had percent recoveries and RPDs outside the control limits in the spikes analyzed on ATGW04312013XX: tetrachloroethene (MS = 879 and MSD = 935), cis-1,2 dichloroethene (MSD = 149), and trichloroethene (MS = 135), 1,2,4-trichlorobenzene (RPD = 31), 1,2-dibromo-3-chloropropane (RPD = 28), and 2-hexanone (RPD = 27). Positive detections of cis-1,2 dichloroethene and trichloroethene were qualified estimated (J) in un-spiked sample. 1,2,4-Trichlorobenzene, 1,2-dibromo-3-chloropropane, and 2-hexanone were not detected in the un-spiked sample and the reporting limit was qualified estimated (UJ). The concentration of tetrachloroethene in the un-spiked sample was greater than four times the concentration spike into the MS and MSD and therefore the spike recoveries were not evaluated. Thirteen other compounds had percent recoveries ranging from 132 to 166, but were not detected in the un-spiked sample and no qualifiers were added to the data set.

The following compounds had percent recoveries and RPDs outside the control limits in the spikes analyzed on ATMW00112013XX: 1,1,2-trichloro-1,2,2-trifluoroethane (MS = 132 and MSD = 140), dichlorodifluoromethane (66), 1,2-dichloropropane (MS = 131), 1,2-dichloropropane (MS = 131), cis-1,2-dichloroethene (MSD = 133), and cyclohexane (MSD = 141). 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-dichloropropane, 1,2-dichloropropane, and cis-

1,2-dichloroethene were not detected in the un-spiked sample and no qualifiers were added to the un-spiked sample for these compounds. The results for cyclohexane and dichlorodifluoromethane were qualified estimated (J/UJ) in the final data set.

SDG 480-38151-1

A matrix spike and matrix spike duplicate was performed on groundwater sample ATGW00212013XXXX. Tetrachloroethene (MS = 56) was recovered below the Region 2 QC limit of 70. The result for tetrachloroethene was qualified estimated (J) in ATGW00212013XXXX and the field duplicate sample, ATGW00212013XXXD.

SDG 480-38152-1

A matrix spike and matrix spike duplicate was performed on soil sample ATGW002072013XX. The following samples had recoveries that were below the Region 2 QC limit of 70: acetone (MS = 61 and MSD = 58), bromoform (MS = 69), carbon disulfide (MS = 56 and MSD = 58), and chloroethane (MS = 53 and MSD = 54). These compounds were not detected in the un-spiked sample and the reporting limits were qualified estimated (UJ).

Qualified results were assigned reason codes of MS-L, MS-H and/or MS-RPD and are summarized in Table 3.

VOC - Field Duplicates

SDG 480-38151-1

A field duplicate sample was submitted with field sample ATGW00212013XX. The following compounds had a RPD that was above the control limit of 50. Results for these compounds were qualified estimated (J/UJ) in the final data set. Qualified results were assigned reason codes of FD and are summarized in Table 3.

| field_sample_id | qc_code | lab_sample_id | param_name | Final Result (ug/L) | Lab Qual | RPD |
|-----------------|---------|---------------|--------------------|---------------------|----------|--------|
| ATGW00212013XX | FS | 480-38151-10 | 1,2-Dichloroethane | 2 | | 66.67% |
| ATGW00212013XD | FD | 480-38151-11 | 1,2-Dichloroethane | 1 | U | |
| ATGW00212013XD | FD | 480-38151-11 | Tetrachloroethene | 4.5 | J | 90.91% |
| ATGW00212013XX | FS | 480-38151-10 | Tetrachloroethene | 12 | J | |
| ATGW00212013XD | FD | 480-38151-11 | Trichloroethene | 0.97 | J | 73.62% |
| ATGW00212013XX | FS | 480-38151-10 | Trichloroethene | 2.1 | | |

VOC - Sample Reporting

SDG 480-38011-1

During sample collection, a field sample was incorrectly labeled and recorded on the chain of custody (COC). The sample ID DCMW01312013XX should have been recorded as DCGW01312013XX on the COC. The sample ID was changed to DCGW01312013XX in the AMEC database.

Due to elevated concentrations of target analytes the following samples were analyzed at a dilution and non-detects were reported at elevated reporting levels:

| SDG | field_sample_id | qc_code | lab_sample_id | dilution_factor |
|-------------|-----------------|---------|---------------|-----------------|
| 480-38011-1 | DCMW00412013XD | FD | 480-38011-2 | 5 |
| 480-38011-1 | DCMW00412013XX | FS | 480-38011-1 | 5 |
| 480-38011-1 | ATGW02612013XX | FS | 480-38011-7 | 5 |
| 480-38011-1 | ATGW04312013XX | FS | 480-38011-8 | 10 |
| 480-38011-1 | ATMW00212013XX | FS | 480-38011-12 | 5 |
| 480-38151-1 | ATGW04512013XX | FS | 480-38151-12 | 5 |

2.3 Total Solids

Results are interpreted to be usable as reported by the laboratory

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA Region 2, 2008. "Validating Volatile Organic Compounds by SW-846 Method 8260B"; SOP # HW-24, Revision 2, Hazardous Waste Support Branch; August 2008.

Data Validator: Tige Cunningham

WC for Tige Cunningham
Date: 6/24/13

Reviewed by Wolfgang Calicchio
Senior Environmental Scientist



Date: 7/22/13

TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| SDG | Media | Location | Sample Date | Sample ID | Class | VOC |
|-------------|-------|----------|-------------|-----------------|--|--------------|
| | | | | | Analysis Method Fraction Qc Code | SW8260B T |
| 480-38011-1 | GW | GW-002 | 5/7/2013 | DCGW00212013XX | FS | 48 |
| 480-38011-1 | GW | GW-013 | 5/8/2013 | DCGW01312013XX | FS | 48 |
| 480-38011-1 | GW | GW-014 | 5/8/2013 | DCGW01413013XX | FS | 48 |
| 480-38011-1 | GW | GW-026 | 5/8/2013 | ATGW02612013XX | FS | 48 |
| 480-38011-1 | GW | GW-043 | 5/8/2013 | ATGW04312013XX | FS | 48 |
| 480-38011-1 | GW | GW-046 | 5/8/2013 | ATGW04612013XX | FS | 48 |
| 480-38011-1 | GW | MW-001 | 5/7/2013 | ATMW00112013XX | FS | 48 |
| 480-38011-1 | GW | MW-001 | 5/7/2013 | DCMW00112013XX | FS | 48 |
| 480-38011-1 | GW | MW-001R | 5/7/2013 | ATMW001R12013XX | FS | 48 |
| 480-38011-1 | GW | MW-002 | 5/6/2013 | ATMW00212013XX | FS | 48 |
| 480-38011-1 | GW | MW-002 | 5/8/2013 | DCMW00212013XX | FS | 48 |
| 480-38011-1 | GW | MW-003 | 5/6/2013 | ATMW00312013XX | FS | 48 |
| 480-38011-1 | GW | MW-003 | 5/7/2013 | DCMW00312013XX | FS | 48 |
| 480-38011-1 | GW | MW-004 | 5/7/2013 | ATMW00412013XX | FS | 48 |
| 480-38011-1 | GW | MW-004 | 5/8/2013 | DCMW00412013XD | FD | 48 |
| 480-38011-1 | GW | MW-004 | 5/8/2013 | DCMW00412013XX | FS | 48 |
| 480-38011-1 | GW | MW-005 | 5/6/2013 | ATMW00512013XX | FS | 48 |
| 480-38011-1 | GW | MW-006 | 5/6/2013 | ATMW00612013XX | FS | 48 |
| 480-38011-1 | GW | MW-006 | 5/7/2013 | DCMW00612013XX | FS | 48 |
| 480-38011-1 | GW | MW-007 | 5/6/2013 | ATMW00712013XX | FS | 48 |
| 480-38011-1 | GW | MW-007 | 5/7/2013 | DCMW00712013XX | FS | 48 |
| 480-38011-1 | GW | MW-008 | 5/7/2013 | ATMW00812013XX | FS | 48 |
| 480-38011-1 | GW | MW-008 | 5/7/2013 | DCMW00812013XX | FS | 48 |
| 480-38011-1 | GW | MW-009 | 5/7/2013 | DCMW00912013XX | FS | 48 |
| 480-38011-1 | GW | MW-009 | 5/7/2013 | ATMW00912013XX | FS | 48 |
| 480-38011-1 | GW | MW-010 | 5/7/2013 | DCMW01012013XX | FS | 48 |
| 480-38011-1 | GW | MW-011 | 5/6/2013 | DCMW01112013XX | FS | 48 |
| 480-38011-1 | GW | MW-012 | 5/8/2013 | DCMW1212013XX | FS | 48 |
| 480-38011-1 | GW | MW-013 | 5/8/2013 | DCMW1312013XX | FS | 48 |
| 480-38011-1 | BW | QC | 5/8/2013 | TRIP BLANK | TB | 48 |

Notes:

FS = Field Sample

FD = Field Duplicate

TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| SDG | Media | Location | Sample Date | Sample ID | Class | VOC |
|-------------|-------|----------|-------------|----------------|--|--------------|
| | | | | | Analysis Method Fraction Qc Code | SW8260B T |
| 480-38151-1 | GW | GW-021 | 5/9/2013 | ATGW00212013XD | FD | 48 |
| 480-38151-1 | GW | GW-021 | 5/9/2013 | ATGW00212013XX | FS | 48 |
| 480-38151-1 | GW | GW-045 | 5/9/2013 | ATGW04512013XX | FS | 48 |
| 480-38151-1 | GW | MW-014 | 5/8/2013 | DCMW1412013XX | FS | 48 |
| 480-38151-1 | GW | MW-015 | 5/8/2013 | DCMW1512013XX | FS | 48 |
| 480-38151-1 | GW | MW-016 | 5/9/2013 | DCMW1612013XX | FS | 48 |
| 480-38151-1 | GW | MW-017 | 5/9/2013 | DCMW1712013XX | FS | 48 |
| 480-38151-1 | GW | MW-018 | 5/9/2013 | DCMW1812013XX | FS | 48 |
| 480-38151-1 | GW | MW-019 | 5/9/2013 | DCMW1912013XX | FS | 48 |
| 480-38151-1 | GW | MW-020 | 5/9/2013 | DCMW2012013XX | FS | 48 |
| 480-38151-1 | GW | MW-021 | 5/9/2013 | DCMW2112013XX | FS | 48 |
| 480-38151-1 | GW | MW-022 | 5/9/2013 | DCMW2212013XX | FS | 48 |
| 480-38151-1 | GW | MW-023 | 5/9/2013 | DCMW2312013XX | FS | 48 |
| 480-38151-1 | BW | QC | 5/9/2013 | TRIP BLANK | FS | 48 |

Notes:

FS = Field Sample

FD = Field Duplicate

TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| SDG | Media | Location | Sample Date | Sample ID | Class | VOC | Solids |
|-------------|-------|----------|-------------|-----------------|--|--------------|-------------|
| | | | | | Analysis Method Fraction Qc Code | SW8260B T | E160.3 T |
| 480-38152-1 | SOIL | GW-002 | 5/9/2013 | ATGW002072013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-021 | 5/9/2013 | ATGW002132013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-026 | 5/8/2013 | ATGW026072013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-026 | 5/8/2013 | ATGW026072013XD | FD | 48 | 2 |
| 480-38152-1 | SOIL | GW-026 | 5/8/2013 | ATGW026122013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-043 | 5/8/2013 | ATGW043132013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-043 | 5/8/2013 | ATGW043152013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-045 | 5/9/2013 | ATGW045162013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-045 | 5/9/2013 | ATGW045122013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-046 | 5/8/2013 | ATGW046142013XX | FS | 48 | 2 |
| 480-38152-1 | SOIL | GW-046 | 5/8/2013 | ATGW046172013XX | FS | 48 | 2 |

Notes:

FS = Field Sample

FD = Field Duplicate

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | GW-002 | | GW-021 | | GW-026 | | GW-026 | | GW-026 | | GW-043 | |
|------|-----------------|---------------------------------------|---------------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | COC Sample | ATGW002072013XX | | ATGW002132013XX | | ATGW026072013XD | | ATGW026072013XX | | ATGW026122013XX | | ATGW043132013XX | |
| | | | Date Sampled | 05/09/13 | | 05/09/13 | | 05/08/13 | | 05/08/13 | | 05/08/13 | | 05/08/13 | |
| | | | Sample Type | FS | | FS | | FD | | FS | | FS | | FS | |
| | | | Report Number | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | |
| Frac | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/kg | 47 | UJ | 67 | UJ | 53 | UJ | 52 | UJ | 52 | UJ | 45 | UJ |
| N | SW8260B | 1,1,2-Trichloroethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,1-Dichloroethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,1-Dichloroethene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,2-Dibromoethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,2-Dichlorobenzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,2-Dichloroethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,2-Dichloropropane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,3-Dichlorobenzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 1,4-Dichlorobenzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | 2-Butanone | ug/kg | 230 | U | 330 | U | 260 | U | 260 | U | 260 | U | 220 | U |
| N | SW8260B | 2-Hexanone | ug/kg | 230 | U | 330 | U | 260 | U | 260 | U | 260 | U | 220 | U |
| N | SW8260B | 4-Methyl-2-pentanone | ug/kg | 230 | U | 330 | U | 260 | U | 260 | U | 260 | U | 220 | U |
| N | SW8260B | Acetic acid, methyl ester | ug/kg | 47 | U | 72 | | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Acetone | ug/kg | 230 | UJ | 330 | U | 260 | U | 260 | U | 260 | U | 220 | U |
| N | SW8260B | Benzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Bromodichloromethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Bromoform | ug/kg | 47 | UJ | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Bromomethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Carbon disulfide | ug/kg | 47 | UJ | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Carbon tetrachloride | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Chlorobenzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Chlorodibromomethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Chloroethane | ug/kg | 47 | UJ | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Chloroform | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Chloromethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | cis-1,3-Dichloropropene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Cyclohexane | ug/kg | 47 | UJ | 67 | UJ | 53 | UJ | 52 | UJ | 52 | UJ | 45 | UJ |
| N | SW8260B | Dichlorodifluoromethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Ethyl benzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Isopropylbenzene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | GW-002 | | GW-021 | | GW-026 | | GW-026 | | GW-026 | | GW-043 | |
|-------|-----------------|---------------------------|---------------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | COC Sample | ATGW002072013XX | | ATGW002132013XX | | ATGW026072013XD | | ATGW026072013XX | | ATGW026122013XX | | ATGW043132013XX | |
| | | | Date Sampled | 05/09/13 | | 05/09/13 | | 05/08/13 | | 05/08/13 | | 05/08/13 | | 05/08/13 | |
| | | | Sample Type | FS | | FS | | FD | | FS | | FS | | FS | |
| | | | Report Number | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/kg | 47 | UJ | 67 | UJ | 53 | UJ | 52 | UJ | 52 | UJ | 45 | UJ |
| N | SW8260B | Methyl Tertbutyl Ether | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Methylene chloride | ug/kg | 47 | U | 16 | J | 53 | U | 12 | J | 11 | J | 45 | U |
| N | SW8260B | Styrene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Tetrachloroethene | ug/kg | 47 | U | 58 | J | 53 | U | 52 | U | 230 | | 190 | |
| N | SW8260B | Toluene | ug/kg | 47 | U | 28 | J | 53 | U | 52 | U | 52 | U | 14 | J |
| N | SW8260B | trans-1,2-Dichloroethene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | trans-1,3-Dichloropropene | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Trichloroethene | ug/kg | 47 | U | 97 | | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Trichlorofluoromethane | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Vinyl chloride | ug/kg | 47 | U | 67 | U | 53 | U | 52 | U | 52 | U | 45 | U |
| N | SW8260B | Xylenes, Total | ug/kg | 94 | U | 130 | U | 110 | U | 100 | U | 100 | U | 89 | U |
| N | E160.3 | Percent Moisture | percent | 16 | | 29 | | 18 | | 18 | | 15 | | 16 | |
| N | E160.3 | Percent Solids | percent | 84 | | 71 | | 82 | | 82 | | 85 | | 84 | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

ug/kg = microgram per kilogram

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | Location | GW-043 | GW-045 | GW-045 | GW-046 | GW-046 |
|-------|-----------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | COC Sample | ATGW043152013XX | ATGW045122013XX | ATGW045162013XX | ATGW046142013XX | ATGW046172013XX |
| | | Date Sampled | 05/08/13 | 05/09/13 | 05/09/13 | 05/08/13 | 05/08/13 |
| | | Sample Type | FS | FS | FS | FS | FS |
| | | Report Number | 480-38152-1 | 480-38152-1 | 480-38152-1 | 480-38152-1 | 480-38152-1 |
| Fraci | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/kg | 51 UJ | 43 UJ | 59 UJ | 46 UJ |
| N | SW8260B | 1,1,2-Trichloroethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,1-Dichloroethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,1-Dichloroethene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,2-Dibromoethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,2-Dichlorobenzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,2-Dichloroethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,2-Dichloropropane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,3-Dichlorobenzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 1,4-Dichlorobenzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | 2-Butanone | ug/kg | 250 U | 220 U | 290 U | 230 U |
| N | SW8260B | 2-Hexanone | ug/kg | 250 U | 220 U | 290 U | 230 U |
| N | SW8260B | 4-Methyl-2-pentanone | ug/kg | 250 U | 220 U | 290 U | 230 U |
| N | SW8260B | Acetic acid, methyl ester | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Acetone | ug/kg | 250 U | 220 U | 290 U | 230 U |
| N | SW8260B | Benzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Bromodichloromethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Bromoform | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Bromomethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Carbon disulfide | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Carbon tetrachloride | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Chlorobenzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Chlorodibromomethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Chloroethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Chloroform | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Chloromethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/kg | 17 J | 43 U | 59 U | 46 U |
| N | SW8260B | cis-1,3-Dichloropropene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Cyclohexane | ug/kg | 51 UJ | 43 UJ | 59 UJ | 46 UJ |
| N | SW8260B | Dichlorodifluoromethane | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Ethyl benzene | ug/kg | 51 U | 43 U | 59 U | 46 U |
| N | SW8260B | Isopropylbenzene | ug/kg | 51 U | 43 U | 59 U | 46 U |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | GW-043 | | GW-045 | | GW-045 | | GW-046 | | GW-046 | |
|-------|-----------------|---------------------------|---------------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|-----------------|------|
| | | | COC Sample | ATGW043152013XX | | ATGW045122013XX | | ATGW045162013XX | | ATGW046142013XX | | ATGW046172013XX | |
| | | | Date Sampled | 05/08/13 | | 05/09/13 | | 05/09/13 | | 05/08/13 | | 05/08/13 | |
| | | | Sample Type | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | | 480-38152-1 | |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/kg | 51 | UJ | 43 | UJ | 59 | UJ | 46 | UJ | 54 | UJ |
| N | SW8260B | Methyl Tertbutyl Ether | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | Methylene chloride | ug/kg | 51 | U | 12 | J | 59 | U | 12 | J | 13 | J |
| N | SW8260B | Styrene | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | Tetrachloroethene | ug/kg | 470 | | 49 | | 310 | | 46 | U | 150 | |
| N | SW8260B | Toluene | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | trans-1,2-Dichloroethene | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | trans-1,3-Dichloropropene | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | Trichloroethene | ug/kg | 51 | U | 43 | U | 39 | J | 46 | U | 54 | U |
| N | SW8260B | Trichlorofluoromethane | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | Vinyl chloride | ug/kg | 51 | U | 43 | U | 59 | U | 46 | U | 54 | U |
| N | SW8260B | Xylenes, Total | ug/kg | 100 | U | 87 | U | 120 | U | 92 | U | 110 | U |
| N | E160.3 | Percent Moisture | percent | 19 | | 12 | | 22 | | 13 | | 19 | |
| N | E160.3 | Percent Solids | percent | 81 | | 88 | | 78 | | 87 | | 81 | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

ug/kg = microgram per kilogram

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | Location | | GW-002 | GW-013 | GW-014 | GW-021 | GW-021 | GW-026 |
|-------|-----------------|---------------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | COC Sample | | DCGW00212013XX | DCGW01312013XX | DCGW01413013XX | ATGW00212013XD | ATGW00212013XX | ATGW02612013XX |
| | | Date Sampled | | 05/07/13 | 05/08/13 | 05/08/13 | 05/09/13 | 05/09/13 | 05/08/13 |
| | | Sample Type | | FS | FS | FS | FD | FS | FS |
| | | Report Number | | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38151-1 | 480-38151-1 | 480-38011-1 |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | 0.12 J | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | 1 UJ | 1 U | 1 U | 1 U | 1 U | 5 UJ |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,1-Dichloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,1-Dichloroethene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | 1,2-Dibromoethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | 1,2-Dichloroethane | ug/l | 1 U | 1 U | 1 U | 1 UJ | 2 J | 5 U |
| N | SW8260B | 1,2-Dichloropropane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | 2-Butanone | ug/l | 5 UJ | 5 UJ | 5 UJ | 5 U | 5 U | 25 UJ |
| N | SW8260B | 2-Hexanone | ug/l | 5 U | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 25 U |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | 5 U | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 25 U |
| N | SW8260B | Acetic acid, methyl ester | ug/l | 2 U | 2 U | 2 U | 2 U | 2 U | 10 U |
| N | SW8260B | Acetone | ug/l | 5 UJ | 13 J | 5 UJ | 5 UJ | 5 UJ | 25 UJ |
| N | SW8260B | Benzene | ug/l | 1 U | 0.15 J | 1 U | 1 U | 0.21 J | 5 U |
| N | SW8260B | Bromodichloromethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Bromoform | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 UJ |
| N | SW8260B | Bromomethane | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | Carbon disulfide | ug/l | 1 U | 0.42 J | 0.31 J | 1 U | 1 U | 5 U |
| N | SW8260B | Carbon tetrachloride | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Chlorobenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Chlorodibromomethane | ug/l | 1 U | 1 UJ | 1 UJ | 1 U | 1 U | 5 U |
| N | SW8260B | Chloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Chloroform | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Chloromethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | 1.7 J | 1 U | 2 | 1 U | 1 | 63 J |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Cyclohexane | ug/l | 1 UJ | 1 U | 1 U | 1 U | 1 U | 5 UJ |
| N | SW8260B | Dichlorodifluoromethane | ug/l | 1 UJ | 1 UJ | 1 UJ | 1 U | 1 U | 5 UJ |
| N | SW8260B | Ethyl benzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |
| N | SW8260B | Isopropylbenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | Location | GW-002 | | GW-013 | | GW-014 | | GW-021 | | GW-021 | | GW-026 | |
|-------|-----------------|---------------------------|----------------|--|----------------|----|----------------|---|----------------|---|----------------|------|----------------|-----|
| | | COC Sample | DCGW00212013XX | | DCGW01312013XX | | DCGW01413013XX | | ATGW00212013XD | | ATGW00212013XX | | ATGW02612013XX | |
| | | Date Sampled | 05/07/13 | | 05/08/13 | | 05/08/13 | | 05/09/13 | | 05/09/13 | | 05/08/13 | |
| | | Sample Type | FS | | FS | | FS | | FD | | FS | | FS | |
| | | Report Number | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38151-1 | | 480-38151-1 | | 480-38011-1 | |
| Fract | Analysis Method | Parameter Name | Units | | Result | | Qual | | Result | | Qual | | Result | |
| N | SW8260B | Methyl cyclohexane | ug/l | | 1 | U | | | 1 | U | | | 5 | UJ |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | 1 | U | | | 1 | U | | | 5 | U |
| N | SW8260B | Methylene chloride | ug/l | | 1 | U | | | 1 | U | | | 5 | U |
| N | SW8260B | Styrene | ug/l | | 1 | U | | | 1 | U | | | 5 | U |
| N | SW8260B | Tetrachloroethene | ug/l | | 130 | | | 1 | U | | | 0.15 | J | 730 |
| N | SW8260B | Toluene | ug/l | | 1 | U | | | 0.27 | J | | | 0.18 | J |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | | 1 | UJ | | | 1 | U | | | 1 | U |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | | 1 | U | | | 1 | U | | | 1 | U |
| N | SW8260B | Trichloroethene | ug/l | | 4.9 | | | 1 | U | | | 0.29 | J | 36 |
| N | SW8260B | Trichlorofluoromethane | ug/l | | 1 | U | | | 1 | U | | | 1 | U |
| N | SW8260B | Vinyl chloride | ug/l | | 1 | U | | | 1 | U | | | 1 | U |
| N | SW8260B | Xylenes, Total | ug/l | | 3 | U | | | 3 | U | | | 3 | U |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | GW-043 | GW-045 | GW-046 | MW-001 | MW-001 | MW-001R |
|-------|-----------------|---------------------------------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| | | | COC Sample | ATGW04312013XX | ATGW04512013XX | ATGW04612013XX | ATMW00112013XX | DCMW001R12013XX | ATMW001R12013XX |
| | | | Date Sampled | 05/08/13 | 05/09/13 | 05/08/13 | 05/07/13 | 05/07/13 | 05/07/13 |
| | | | Sample Type | FS | FS | FS | FS | FS | FS |
| | | | Report Number | 480-38011-1 | 480-38151-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | 10 U | | 5 U | 0.34 J | 1 U | 1 U |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | 10 U | | 5 U | 1 UJ | 1 UJ | 1 U |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,1-Dichloroethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,1-Dichloroethene | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | 10 UJ | | 5 U | 1 U | 1 UJ | 1 UJ |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | 10 UJ | | 5 U | 1 U | 1 UJ | 1 UJ |
| N | SW8260B | 1,2-Dibromoethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | 10 UJ | | 5 U | 1 U | 1 U | 1 UJ |
| N | SW8260B | 1,2-Dichloroethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dichloropropane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | 10 UJ | | 5 U | 1 U | 1 U | 1 UJ |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | 10 UJ | | 5 U | 1 U | 1 U | 1 UJ |
| N | SW8260B | 2-Butanone | ug/l | 50 UJ | | 25 U | 5 UJ | 5 UJ | 5 UJ |
| N | SW8260B | 2-Hexanone | ug/l | 50 UJ | | 25 UJ | 5 U | 5 U | 5 UJ |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | 50 UJ | | 25 UJ | 5 U | 5 U | 5 UJ |
| N | SW8260B | Acetic acid, methyl ester | ug/l | 20 U | | 10 U | 2 U | 2 U | 2 U |
| N | SW8260B | Acetone | ug/l | 50 UJ | | 37 J | 6 J | 5 UJ | 5 UJ |
| N | SW8260B | Benzene | ug/l | 10 U | | 5 U | 0.33 J | 25 | 8.8 |
| N | SW8260B | Bromodichloromethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Bromoform | ug/l | 10 UJ | | 5 U | 1 UJ | 1 UJ | 1 UJ |
| N | SW8260B | Bromomethane | ug/l | 10 UJ | | 5 U | 1 U | 1 UJ | 1 UJ |
| N | SW8260B | Carbon disulfide | ug/l | 2.7 J | | 5 U | 0.18 J | 1 U | 0.15 J |
| N | SW8260B | Carbon tetrachloride | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chlorobenzene | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chlorodibromomethane | ug/l | 10 UJ | | 5 U | 1 U | 1 U | 1 UJ |
| N | SW8260B | Chloroethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chloroform | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chloromethane | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | 79 J | | 47 | 14 J | 1 UJ | 1 U |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | 10 U | | 5 U | 1 U | 1 U | 1 U |
| N | SW8260B | Cyclohexane | ug/l | 10 U | | 5 U | 1 UJ | 52 J | 14 J |
| N | SW8260B | Dichlorodifluoromethane | ug/l | 10 UJ | | 5 U | 1 UJ | 1 UJ | 1 UJ |
| N | SW8260B | Ethyl benzene | ug/l | 10 U | | 5 U | 1 U | 130 | 27 |
| N | SW8260B | Isopropylbenzene | ug/l | 10 U | | 5 U | 1 U | 15 | 2 |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | GW-043 | | GW-045 | | GW-046 | | MW-001 | | MW-001 | | MW-001R | |
|------|-----------------|---------------------------|---------------|--|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|-----------------|------|
| | | | COC Sample | | ATGW04312013XX | | ATGW04512013XX | | ATGW04612013XX | | ATMW00112013XX | | DCMW00112013XX | | ATMW001R12013XX | |
| | | | Date Sampled | | 05/08/13 | | 05/09/13 | | 05/08/13 | | 05/07/13 | | 05/07/13 | | 05/07/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | | 480-38011-1 | | 480-38151-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | |
| Frac | Analysis Method | Parameter Name | Units | | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/l | | 10 | U | 5 | U | 1 | UJ | 18 | J | 1 | U | 8.9 | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | 10 | U | 5 | U | 0.88 | J | 5.3 | | 1 | U | 3 | |
| N | SW8260B | Methylene chloride | ug/l | | 10 | U | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Styrene | ug/l | | 10 | U | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Tetrachloroethene | ug/l | | 940 | | 670 | | 27 | | 1 | U | 7.4 | | 1 | U |
| N | SW8260B | Toluene | ug/l | | 10 | U | 5 | U | 0.38 | J | 37 | | 1 | U | 9.8 | |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | | 10 | U | 5 | U | 1 | UJ | 1 | UJ | 1 | UJ | 1 | U |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | | 10 | U | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Trichloroethene | ug/l | | 54 | J | 61 | | 6.6 | | 1 | U | 3.2 | | 1 | U |
| N | SW8260B | Trichlorofluoromethane | ug/l | | 10 | U | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Vinyl chloride | ug/l | | 10 | U | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Xylenes, Total | ug/l | | 30 | U | 15 | U | 3 | U | 140 | | 3 | U | 27 | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | MW-002 | MW-002 | MW-003 | MW-003 | MW-004 | MW-004 |
|-------|-----------------|---------------------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | COC Sample | ATMW00212013XX | DCMW00212013XX | ATMW00312013XX | DCMW00312013XX | ATMW00412013XX | DCMW00412013XD |
| | | | Date Sampled | 05/06/13 | 05/08/13 | 05/06/13 | 05/07/13 | 05/07/13 | 05/08/13 |
| | | | Sample Type | FS | FS | FS | FS | FS | FD |
| | | | Report Number | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | 5 U | | 0.087 J | | 1 U | |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | 5 UJ | | 1 UJ | | 1 UJ | |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | 5 U | | 3.4 | | 1 U | |
| N | SW8260B | 1,1-Dichloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethene | ug/l | 5 U | | 0.44 J | | 1 U | |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromoethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloroethane | ug/l | 5 U | | 2.1 | | 1 U | |
| N | SW8260B | 1,2-Dichloropropane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 2-Butanone | ug/l | 25 UJ | | 11 J | | 5 UJ | |
| N | SW8260B | 2-Hexanone | ug/l | 25 U | | 5 U | | 5 U | |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | 25 U | | 5 U | | 5 U | |
| N | SW8260B | Acetic acid, methyl ester | ug/l | 10 U | | 2 U | | 2 U | |
| N | SW8260B | Acetone | ug/l | 25 UJ | | 2.8 J | | 5 UJ | |
| N | SW8260B | Benzene | ug/l | 920 | | 0.17 J | | 1 U | |
| N | SW8260B | Bromodichloromethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Bromoform | ug/l | 5 UJ | | 1 U | | 1 UJ | |
| N | SW8260B | Bromomethane | ug/l | 5 U | | 0.25 J | | 1 U | |
| N | SW8260B | Carbon disulfide | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Carbon tetrachloride | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chlorodibromomethane | ug/l | 5 U | | 89 | | 1 U | |
| N | SW8260B | Chloroethane | ug/l | 5 U | | 0.41 J | | 1 U | |
| N | SW8260B | Chloroform | ug/l | 5 U | | 0.11 J | | 0.28 J | |
| N | SW8260B | Chloromethane | ug/l | 5 U | | 0.19 J | | 1 U | |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | 5 UJ | | 220 J | | 14 J | |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Cyclohexane | ug/l | 85 J | | 1 UJ | | 1 UJ | |
| N | SW8260B | Dichlorodifluoromethane | ug/l | 5 UJ | | 1 UJ | | 1 UJ | |
| N | SW8260B | Ethyl benzene | ug/l | 370 | | 1 U | | 1 U | |
| N | SW8260B | Isopropylbenzene | ug/l | 19 | | 1 U | | 1 U | |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | MW-002 | | MW-002 | | MW-003 | | MW-003 | | MW-004 | | MW-004 | |
|-------|-----------------|---------------------------|---------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--|
| | | | COC Sample | | ATMW00212013XX | | DCMW00212013XX | | ATMW00312013XX | | DCMW00312013XX | | ATMW00412013XX | | DCMW00412013XD | |
| | | | Date Sampled | | 05/06/13 | | 05/08/13 | | 05/06/13 | | 05/07/13 | | 05/07/13 | | 05/08/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FD | |
| | | | Report Number | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | |
| N | SW8260B | Methyl cyclohexane | ug/l | 60 | J | 0.18 | J | 1 | UJ | 1 | U | 100 | J | 5 | UJ | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | 7 | | 1 | U | 1 | U | 1 | U | 1 | U | 5 | U | |
| N | SW8260B | Methylene chloride | ug/l | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U | 5 | U | |
| N | SW8260B | Styrene | ug/l | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U | 5 | U | |
| N | SW8260B | Tetrachloroethene | ug/l | 2.9 | J | 100 | | 1 | U | 46 | | 0.26 | J | 620 | | |
| N | SW8260B | Toluene | ug/l | 160 | | 1 | U | 1 | U | 1 | U | 11 | | 5 | U | |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | 5 | UJ | 0.99 | J | 1 | UJ | 1 | UJ | 1 | UJ | 5 | UJ | |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U | 5 | U | |
| N | SW8260B | Trichloroethene | ug/l | 5 | U | 16 | | 0.11 | J | 4.7 | | 0.81 | J | 4.4 | J | |
| N | SW8260B | Trichlorofluoromethane | ug/l | 5 | U | 1 | U | 1 | U | 1 | U | 1 | U | 5 | U | |
| N | SW8260B | Vinyl chloride | ug/l | 5 | U | 0.93 | J | 1 | U | 1 | U | 1 | U | 5 | U | |
| N | SW8260B | Xylenes, Total | ug/l | 660 | | 3 | U | 3 | U | 3 | U | 13 | | 15 | U | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | Location | | MW-004 | MW-005 | MW-006 | MW-006 | MW-007 | MW-007 |
|-------|-----------------|---------------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | COC Sample | | DCMW00412013XX | ATMW00512013XX | ATMW00612013XX | DCMW00612013XX | ATMW00712013XX | DCMW00712013XX |
| | | Date Sampled | | 05/08/13 | 05/06/13 | 05/06/13 | 05/07/13 | 05/06/13 | 05/07/13 |
| | | Sample Type | | FS | FS | FS | FS | FS | FS |
| | | Report Number | | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | 5 UJ | | 1 UJ | | 1 UJ | |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | 5 UJ | | 1 U | | 1 U | 0.31 J |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromoethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloropropane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | 2-Butanone | ug/l | 25 UJ | | 5 UJ | | 5 UJ | |
| N | SW8260B | 2-Hexanone | ug/l | 25 U | | 5 U | | 5 U | |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | 25 U | | 5 U | | 5 U | |
| N | SW8260B | Acetic acid, methyl ester | ug/l | 10 U | | 2 U | | 2 U | |
| N | SW8260B | Acetone | ug/l | 25 UJ | | 5 UJ | | 5 UJ | |
| N | SW8260B | Benzene | ug/l | 5 U | | 1 U | | 1 U | 0.11 J |
| N | SW8260B | Bromodichloromethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Bromoform | ug/l | 5 UJ | | 1 UJ | | 1 UJ | |
| N | SW8260B | Bromomethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Carbon disulfide | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Carbon tetrachloride | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chlorobenzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chlorodibromomethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chloroethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chloroform | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Chloromethane | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | 10 J | | 1 UJ | | 13 J | |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Cyclohexane | ug/l | 5 UJ | | 1 UJ | | 1 UJ | |
| N | SW8260B | Dichlorodifluoromethane | ug/l | 5 UJ | | 1 UJ | | 1 UJ | |
| N | SW8260B | Ethyl benzene | ug/l | 5 U | | 1 U | | 1 U | |
| N | SW8260B | Isopropylbenzene | ug/l | 5 U | | 1 U | | 1 U | |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | MW-004 | | MW-005 | | MW-006 | | MW-006 | | MW-007 | | MW-007 | |
|------|-----------------|---------------------------|---------------|--|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| | | | COC Sample | | DCMW00412013XX | | ATMW00512013XX | | ATMW00612013XX | | DCMW00612013XX | | ATMW00712013XX | | DCMW00712013XX | |
| | | | Date Sampled | | 05/08/13 | | 05/06/13 | | 05/06/13 | | 05/07/13 | | 05/06/13 | | 05/07/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | |
| Frac | Analysis Method | Parameter Name | Units | | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/l | | 5 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 1 UJ | | 1 U | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | 5 U | | 0.14 J | | 1 U | | 1 U | | 3.9 | | 1 U | |
| N | SW8260B | Methylene chloride | ug/l | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Styrene | ug/l | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Tetrachloroethene | ug/l | | 660 | | 1 U | | 1 U | | 0.11 J | | 1 U | | 190 | |
| N | SW8260B | Toluene | ug/l | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | | 5 UJ | | 1 UJ | | 0.23 J | | 1 UJ | | 1 UJ | | 0.74 J | |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | | 5 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Trichloroethene | ug/l | | 3.7 J | | 1 U | | 1 U | | 0.39 J | | 1 U | | 29 | |
| N | SW8260B | Trichlorofluoromethane | ug/l | | 5 UJ | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Vinyl chloride | ug/l | | 5 U | | 1 U | | 1 U | | 0.21 J | | 1 U | | 1.1 | |
| N | SW8260B | Xylenes, Total | ug/l | | 15 U | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | Location | MW-008 | MW-008 | MW-009 | MW-009 | MW-010 | MW-011 | |
|-------|-----------------|---------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| | | COC Sample | ATMW00812013XX | DCMW00812013XX | ATMW00912013XX | DCMW00912013XX | DCMW01012013XX | DCMW01112013XX | |
| | | Date Sampled | 05/07/13 | 05/07/13 | 05/07/13 | 05/07/13 | 05/07/13 | 05/06/13 | |
| | | Sample Type | FS | FS | FS | FS | FS | FS | |
| | | Report Number | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | 480-38011-1 | |
| Fract | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | 47 | 1 U | 1 U | 0.12 J | 1 U | 1 U |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,1-Dichloroethane | ug/l | 1.5 | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,1-Dichloroethene | ug/l | 0.55 J | 1 U | 1 U | 0.19 J | 1 U | 1 U |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dibromoethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dichloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,2-Dichloropropane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | 2-Butanone | ug/l | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ |
| N | SW8260B | 2-Hexanone | ug/l | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| N | SW8260B | Acetic acid, methyl ester | ug/l | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U |
| N | SW8260B | Acetone | ug/l | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ | 5 UJ |
| N | SW8260B | Benzene | ug/l | 1 U | 1 U | 0.13 J | 0.099 J | 1 U | 1 U |
| N | SW8260B | Bromodichloromethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Bromoform | ug/l | 1 UJ | 1 U | 1 U | 1 UJ | 1 U | 1 UJ |
| N | SW8260B | Bromomethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Carbon disulfide | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Carbon tetrachloride | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chlorobenzene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chlorodibromomethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chloroethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Chloroform | ug/l | 0.12 J | 0.17 J | 1 U | 1 U | 0.18 J | 1 U |
| N | SW8260B | Chloromethane | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | 12 J | 42 J | 2.4 J | 150 J | 5.9 J | 1 UJ |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| N | SW8260B | Cyclohexane | ug/l | 1 UJ | 1 UJ | 12 J | 1 UJ | 1 UJ | 1 UJ |
| N | SW8260B | Dichlorodifluoromethane | ug/l | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| N | SW8260B | Ethyl benzene | ug/l | 1 U | 1 U | 11 | 1 U | 1 U | 1 U |
| N | SW8260B | Isopropylbenzene | ug/l | 1 U | 1 U | 2.2 | 1 U | 1 U | 1 U |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | MW-008 | | MW-008 | | MW-009 | | MW-009 | | MW-010 | | MW-011 | |
|------|-----------------|---------------------------|---------------|--|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| | | | COC Sample | | ATMW00812013XX | | DCMW00812013XX | | ATMW00912013XX | | DCMW00912013XX | | DCMW01012013XX | | DCMW01112013XX | |
| | | | Date Sampled | | 05/07/13 | | 05/07/13 | | 05/07/13 | | 05/07/13 | | 05/07/13 | | 05/06/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | | 480-38011-1 | |
| Frac | Analysis Method | Parameter Name | Units | | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/l | | 1 UJ | | 1 U | | 3.3 | | 1 UJ | | 1 U | | 1 UJ | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | 2 | | 1 U | | 3.5 | | 1 U | | 1 U | | 1.3 | |
| N | SW8260B | Methylene chloride | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Styrene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Tetrachloroethene | ug/l | | 1.5 | | 85 | | 2.1 | | 50 | | 270 | | 0.15 J | |
| N | SW8260B | Toluene | ug/l | | 1 U | | 1 U | | 1.5 | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | | 0.13 J | | 0.33 J | | 1 UJ | | 0.81 J | | 1 UJ | | 1 UJ | |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Trichloroethene | ug/l | | 33 | | 8.2 | | 3 | | 11 | | 2.2 | | 1.4 | |
| N | SW8260B | Trichlorofluoromethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Vinyl chloride | ug/l | | 0.58 J | | 0.59 J | | 1 U | | 0.15 J | | 1 U | | 1 U | |
| N | SW8260B | Xylenes, Total | ug/l | | 3 U | | 3 U | | 25 | | 3 U | | 3 U | | 3 U | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | MW-012 | | MW-013 | | MW-014 | | MW-015 | | MW-016 | | MW-017 | |
|-------|-----------------|---------------------------------------|---------------|--|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | | | COC Sample | | DCMW1212013XX | | DCMW1312013XX | | DCMW1412013XX | | DCMW1512013XX | | DCMW1612013XX | | DCMW1712013XX | |
| | | | Date Sampled | | 05/08/13 | | 05/08/13 | | 05/08/13 | | 05/08/13 | | 05/09/13 | | 05/09/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | | 480-38011-1 | | 480-38011-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | |
| Fract | Analysis Method | Parameter Name | Units | | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | | 1 UJ | | 1 UJ | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethene | ug/l | | 0.12 J | | 0.6 J | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromoethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloroethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloropropane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | 2-Butanone | ug/l | | 5 UJ | | 5 UJ | | 5 U | | 5 U | | 5 U | | 5 U | |
| N | SW8260B | 2-Hexanone | ug/l | | 5 U | | 5 U | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | | 5 U | | 5 U | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| N | SW8260B | Acetic acid, methyl ester | ug/l | | 2 U | | 2 U | | 2 U | | 2 U | | 2 U | | 2 U | |
| N | SW8260B | Acetone | ug/l | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | | 5 UJ | |
| N | SW8260B | Benzene | ug/l | | 0.084 J | | 0.13 J | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Bromodichloromethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Bromoform | ug/l | | 1 U | | 1 UJ | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Bromomethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Carbon disulfide | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Carbon tetrachloride | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Chlorobenzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Chlorodibromomethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Chloroethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Chloroform | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Chloromethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | | 81 J | | 270 J | | 92 | | 1 U | | 2.7 | | 8.1 | |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Cyclohexane | ug/l | | 1 UJ | | 1 UJ | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Dichlorodifluoromethane | ug/l | | 1 UJ | | 1 UJ | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Ethyl benzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Isopropylbenzene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | MW-012 | | MW-013 | | MW-014 | | MW-015 | | MW-016 | | MW-017 | |
|------|-----------------|---------------------------|---------------|--|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | | | COC Sample | | DCMW1212013XX | | DCMW1312013XX | | DCMW1412013XX | | DCMW1512013XX | | DCMW1612013XX | | DCMW1712013XX | |
| | | | Date Sampled | | 05/08/13 | | 05/08/13 | | 05/08/13 | | 05/08/13 | | 05/09/13 | | 05/09/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | | 480-38011-1 | | 480-38011-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | |
| Frac | Analysis Method | Parameter Name | Units | | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/l | | 1 U | | 1 UJ | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Methylene chloride | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Styrene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Tetrachloroethene | ug/l | | 200 | | 250 | | 150 | | 1 U | | 250 | | 67 | |
| N | SW8260B | Toluene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | | 0.55 J | | 1.5 J | | 0.76 J | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Trichloroethene | ug/l | | 24 | | 54 | | 19 | | 1 U | | 7.8 | | 11 | |
| N | SW8260B | Trichlorofluoromethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Vinyl chloride | ug/l | | 1 U | | 2.2 | | 2.1 | | 1 U | | 1 U | | 0.54 J | |
| N | SW8260B | Xylenes, Total | ug/l | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | MW-018 | | MW-019 | | MW-020 | | MW-021 | | MW-022 | | MW-023 | |
|------|-----------------|---------------------------------------|---------------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | | | COC Sample | DCMW1812013XX | | DCMW1912013XX | | DCMW2012013XX | | DCMW2112013XX | | DCMW2212013XX | | DCMW2312013XX | |
| | | | Date Sampled | 05/09/13 | | 05/09/13 | | 05/09/13 | | 05/09/13 | | 05/09/13 | | 05/09/13 | |
| | | | Sample Type | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | |
| Frac | Analysis Method | Parameter Name | Units | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,1-Dichloroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,1-Dichloroethene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,2-Dibromoethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,2-Dichloroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,2-Dichloropropane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 1,4-Dichloroberizene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | 2-Butanone | ug/l | 5 | U | 5 | U | 5 | U | 18 | | 5 | U | 5 | U |
| N | SW8260B | 2-Hexanone | ug/l | 5 | UJ | 5 | UJ | 5 | UJ | 5 | UJ | 5 | UJ | 5 | UJ |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | 5 | UJ | 5 | UJ | 5 | UJ | 5 | UJ | 5 | UJ | 5 | UJ |
| N | SW8260B | Acetic acid, methyl ester | ug/l | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U | 2 | U |
| N | SW8260B | Acetone | ug/l | 5 | UJ | 36 | J | 5 | UJ | 440 | J | 5 | UJ | 5 | UJ |
| N | SW8260B | Berizene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Bromodichloromethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Bromoform | ug/l | 1 | U | 1 | U | 1 | U | 4 | | 1 | U | 1 | U |
| N | SW8260B | Bromomethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Carbon disulfide | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Carbon tetrachloride | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Chlorobenzene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Chlorodibromomethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Chloroethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Chloroform | ug/l | 1 | U | 1 | U | 1 | U | 0.68 | J | 1 | U | 1 | U |
| N | SW8260B | Chloromethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | 84 | | 2 | | 100 | | 1 | U | 12 | | 1 | U |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Cyclohexane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Dichlorodifluoromethane | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Ethyl benzene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U | 1 | U |
| N | SW8260B | Isopropylbenzene | ug/l | 1 | U | 1 | U | 1 | U | 1 | U | 1.4 | | 1 | U |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| | | | Location | | MW-018 | | MW-019 | | MW-020 | | MW-021 | | MW-022 | | MW-023 | |
|------|-----------------|---------------------------|---------------|--|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| | | | COC Sample | | DCMW1812013XX | | DCMW1912013XX | | DCMW2012013XX | | DCMW2112013XX | | DCMW2212013XX | | DCMW2312013XX | |
| | | | Date Sampled | | 05/09/13 | | 05/09/13 | | 05/09/13 | | 05/09/13 | | 05/09/13 | | 05/09/13 | |
| | | | Sample Type | | FS | | FS | | FS | | FS | | FS | | FS | |
| | | | Report Number | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | | 480-38151-1 | |
| Frac | Analysis Method | Parameter Name | Units | | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual | Result | Qual |
| N | SW8260B | Methyl cyclohexane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Methylene chloride | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Styrene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Tetrachloroethene | ug/l | | 110 | | 1.2 | | 2 | | 1 U | | 65 | | 1 | |
| N | SW8260B | Toluene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | | 0.38 J | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Trichloroethene | ug/l | | 9.6 | | 1 U | | 1.1 | | 1 U | | 3 | | 1 U | |
| N | SW8260B | Trichlorofluoromethane | ug/l | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | | 1 U | |
| N | SW8260B | Vinyl chloride | ug/l | | 1.4 | | 1 U | | 6.2 | | 1 U | | 2 | | 1 U | |
| N | SW8260B | Xylenes, Total | ug/l | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | | 3 U | |

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| Fract | Analysis Method | Parameter Name | Units | Location COC Sample Date Sampled Sample Type Report Number | | QC TRIP BLANK 05/08/13 TB 480-38011-1 | | QC TRIP BLANK 05/09/13 TB 480-38151-1 | |
|-------|-----------------|---------------------------------------|-------|--|--|---|------|---|------|
| | | | | | | Result | Qual | Result | Qual |
| N | SW8260B | 1,1,1-Trichloroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2,2-Tetrachloroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,1,2-Trichloroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,1-Dichloroethene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,2,4-Trichlorobenzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromo-3-chloropropane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dibromoethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichlorobenzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,2-Dichloropropane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,3-Dichlorobenzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 1,4-Dichlorobenzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | 2-Butanone | ug/l | | | 5 U | | 5 U | |
| N | SW8260B | 2-Hexanone | ug/l | | | 5 U | | 5 U | |
| N | SW8260B | 4-Methyl-2-pentanone | ug/l | | | 5 U | | 5 U | |
| N | SW8260B | Acetic acid, methyl ester | ug/l | | | 2 U | | 2 U | |
| N | SW8260B | Acetone | ug/l | | | 5 U | | 5 U | |
| N | SW8260B | Benzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Bromodichloromethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Bromoform | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Bromomethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Carbon disulfide | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Carbon tetrachloride | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Chlorobenzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Chlorodibromomethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Chloroethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Chloroform | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Chloromethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Cis-1,2-Dichloroethene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | cis-1,3-Dichloropropene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Cyclohexane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Dichlorodifluoromethane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Ethyl benzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Isopropylbenzene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Methyl cyclohexane | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Methyl Tertbutyl Ether | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Methylene chloride | ug/l | | | 0.67 J | | 1 U | |
| N | SW8260B | Styrene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Tetrachloroethene | ug/l | | | 1 U | | 1 U | |
| N | SW8260B | Toluene | ug/l | | | 1 U | | 1 U | |

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| Fract | Analysis Method | Parameter Name | Location COC Sample Date Sampled Sample Type Report Number Units | QC | | QC | |
|-------|-----------------|---------------------------|---|---|-------------|---|-------------|
| | | | | TRIP BLANK 05/08/13 TB 480-38011-1 | Result Qual | TRIP BLANK 05/09/13 TB 480-38151-1 | Result Qual |
| N | SW8260B | trans-1,2-Dichloroethene | ug/l | 1 U | | 1 U | |
| N | SW8260B | trans-1,3-Dichloropropene | ug/l | 1 U | | 1 U | |
| N | SW8260B | Trichloroethene | ug/l | 1 U | | 1 U | |
| N | SW8260B | Trichlorofluoromethane | ug/l | 1 U | | 1 U | |
| N | SW8260B | Vinyl chloride | ug/l | 1 U | | 1 U | |
| N | SW8260B | Xylenes, Total | ug/l | 3 U | | 3 U | |

Notes:

N = normal

TB = trip blank

U = not detected, value is the reporting limit

J = value is estimated

ug/l = microgram per liter

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

TABLE 3
VALIDATION QUALIFICATION ACTION SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|--------------------|-------|
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | UJ | MS-RPD | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | 2-Butanone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Acetone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Bromoform | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Cis-1,2-Dichloroethene | 10 | | 10 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Cyclohexane | 5.0 | U * | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Dichlorodifluoromethane | 5.0 | U | 5.0 | UJ | CCV%D, LCS-L, MS-L | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Methyl cyclohexane | 5.0 | U * | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-1 | SW8260B | DCMW00412013XX | Trichlorofluoromethane | 5.0 | U | 5.0 | UJ | MS-L | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | Cis-1,2-Dichloroethene | 0.55 | J | 0.55 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | Cyclohexane | 0.63 | J * | 0.63 | J | CCV%D, LCS-H | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-10 | SW8260B | ATMW00712013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | Cis-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-11 | SW8260B | ATMW00312013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | 2-Butanone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | Acetone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | Bromoform | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | Cis-1,2-Dichloroethene | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | Cyclohexane | 85 | * | 85 | J | CCV%D, LCS-H | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | Dichlorodifluoromethane | 5.0 | U | 5.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | Methyl cyclohexane | 60 | * | 60 | J | CCV%D, LCS-H | ug/l |
| 480-38011-1 | 480-38011-12 | SW8260B | ATMW00212013XX | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | Cis-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | Cyclohexane | 170 | H | 170 | JH | HT | ug/l |

TABLE 3
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| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|-----------------|-------|
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | Methyl cyclohexane | 100 | * | 100 | J | CCV%D, LCS-H | ug/l |
| 480-38011-1 | 480-38011-13 | SW8260B | ATMW00412013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | Cis-1,2-Dichloroethene | 12 | | 12 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-14 | SW8260B | ATMW00812013XX | trans-1,2-Dichloroethene | 0.13 | J | 0.13 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | Cis-1,2-Dichloroethene | 150 | | 150 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-15 | SW8260B | DCMW00912013XX | trans-1,2-Dichloroethene | 0.81 | J | 0.81 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | Cis-1,2-Dichloroethene | 13 | | 13 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-16 | SW8260B | DCMW00612013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | Cis-1,2-Dichloroethene | 14 | | 14 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-17 | SW8260B | DCMW00312013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | Cis-1,2-Dichloroethene | 2.4 | | 2.4 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-18 | SW8260B | DCMW00112013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |

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| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|-----------------|-------|
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | Cis-1,2-Dichloroethene | 5.9 | | 5.9 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-19 | SW8260B | DCMW01012013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | 2-Butanone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | Acetone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | Bromoform | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | Cis-1,2-Dichloroethene | 9.4 | | 9.4 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | Cyclohexane | 5.0 | U * | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | Dichlorodifluoromethane | 5.0 | U | 5.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | Methyl cyclohexane | 5.0 | U * | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-2 | SW8260B | DCMW00412013XD | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 1,2-Dibromo-3-chloropropane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | Acetone | 13 | | 13 | J | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | Bromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | Chlorodibromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-20 | SW8260B | DCGW01312013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | Cis-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-21 | SW8260B | DCMW01112013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | Cis-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |

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| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|--------------------|-------|
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-22 | SW8260B | ATMW00612013XX | trans-1,2-Dichloroethene | 0.23 | J | 0.23 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | Cis-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-23 | SW8260B | ATMW00512013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | 1,2-Dibromo-3-chloropropane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Bromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Cis-1,2-Dichloroethene | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Cyclohexane | 52 | * | 52 | J | CCV%D, LCS-H, MS-H | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, MS-L | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | Methyl cyclohexane | 18 | | 18 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-24 | SW8260B | ATMW00112013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 1,2-Dibromo-3-chloropropane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | Bromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | Chlorodibromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | Cyclohexane | 14 | * | 14 | J | LCS-L | ug/l |
| 480-38011-1 | 480-38011-25 | SW8260B | ATMW001R12013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | Cis-1,2-Dichloroethene | 2.4 | | 2.4 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | Cyclohexane | 12 | * | 12 | J | CCV%D, LCS-H | ug/l |
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |

TABLE 3
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| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|-----------------|-------|
| 480-38011-1 | 480-38011-26 | SW8260B | ATMW00912013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | Cis-1,2-Dichloroethene | 42 | | 42 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-27 | SW8260B | DCMW00812013XX | trans-1,2-Dichloroethene | 0.33 | J | 0.33 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | Cis-1,2-Dichloroethene | 130 | | 130 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-28 | SW8260B | DCMW00712013XX | trans-1,2-Dichloroethene | 0.74 | J | 0.74 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | Cis-1,2-Dichloroethene | 1.7 | | 1.7 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-29 | SW8260B | DCGW00212013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | 2-Butanone | 11 | | 11 | J | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | Acetone | 2.8 | J | 2.8 | J | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | Cis-1,2-Dichloroethene | 220 | | 220 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-3 | SW8260B | DCMW00212013XX | trans-1,2-Dichloroethene | 0.99 | J | 0.99 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 1,2-Dibromo-3-chloropropane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | Bromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | Chlorodibromomethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-30 | SW8260B | DCGW01413013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |

TABLE 3
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| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|-----------------|-------|
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | Cis-1,2-Dichloroethene | 81 | | 81 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-4 | SW8260B | DCMW1212013XX | trans-1,2-Dichloroethene | 0.55 | J | 0.55 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | Acetone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | Cis-1,2-Dichloroethene | 270 | | 270 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-5 | SW8260B | DCMW1312013XX | trans-1,2-Dichloroethene | 1.5 | | 1.5 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | 2-Butanone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | Acetone | 25 | U | 25 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | Bromoform | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | Cis-1,2-Dichloroethene | 63 | | 63 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | Cyclohexane | 5.0 | U * | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | Dichlorodifluoromethane | 5.0 | U | 5.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | Methyl cyclohexane | 5.0 | U * | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-7 | SW8260B | ATGW02612013XX | trans-1,2-Dichloroethene | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 1,2,4-Trichlorobenzene | 10 | U | 10 | UJ | CCV%D, MS-RPD | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 1,2-Dibromo-3-chloropropane | 10 | U | 10 | UJ | CCV%D, MS-RPD | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 1,2-Dichlorobenzene | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 1,3-Dichlorobenzene | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 1,4-Dichlorobenzene | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 2-Butanone | 50 | U | 50 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 2-Hexanone | 50 | U | 50 | UJ | CCV%D, MS-RPD | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | 4-Methyl-2-pentanone | 50 | U | 50 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Acetone | 50 | U | 50 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Bromoform | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Bromomethane | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Chlorodibromomethane | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Cis-1,2-Dichloroethene | 79 | | 79 | J | MS-H | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Dichlorodifluoromethane | 10 | U | 10 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-8 | SW8260B | ATGW04312013XX | Trichloroethene | 54 | | 54 | J | MS-H | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | 2-Butanone | 5.0 | U | 5.0 | UJ | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | Acetone | 6.0 | | 6.0 | J | ICVRRF, CCVRRF | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | Bromoform | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | Cis-1,2-Dichloroethene | 14 | | 14 | J | CCV%D | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | Cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |

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| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|--------------------------|------------|---------------|--------------|-----------------|-----------------|-------|
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | Dichlorodifluoromethane | 1.0 | U | 1.0 | UJ | CCV%D, LCS-L | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | Methyl cyclohexane | 1.0 | U * | 1.0 | UJ | CCV%D | ug/l |
| 480-38011-1 | 480-38011-9 | SW8260B | ATGW04612013XX | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-1 | SW8260B | DCMW1412013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-1 | SW8260B | DCMW1412013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-1 | SW8260B | DCMW1412013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-10 | SW8260B | ATGW00212013XX | 1,2-Dichloroethane | 2.0 | | 2.0 | J | FD | ug/l |
| 480-38151-1 | 480-38151-10 | SW8260B | ATGW00212013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-10 | SW8260B | ATGW00212013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-10 | SW8260B | ATGW00212013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-10 | SW8260B | ATGW00212013XX | Tetrachloroethene | 12 | | 12 | J | MS-L, FD | ug/l |
| 480-38151-1 | 480-38151-10 | SW8260B | ATGW00212013XX | Trichloroethene | 2.1 | | 2.1 | J | FD | ug/l |
| 480-38151-1 | 480-38151-11 | SW8260B | ATGW00212013XD | 1,2-Dichloroethane | 1.0 | U | 1.0 | UJ | FD | ug/l |
| 480-38151-1 | 480-38151-11 | SW8260B | ATGW00212013XD | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-11 | SW8260B | ATGW00212013XD | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-11 | SW8260B | ATGW00212013XD | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-11 | SW8260B | ATGW00212013XD | Tetrachloroethene | 4.5 | | 4.5 | J | MS-L, FD | ug/l |
| 480-38151-1 | 480-38151-11 | SW8260B | ATGW00212013XD | Trichloroethene | 0.97 | J | 0.97 | J | FD | ug/l |
| 480-38151-1 | 480-38151-12 | SW8260B | ATGW04512013XX | 2-Hexanone | 25 | U | 25 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-12 | SW8260B | ATGW04512013XX | 4-Methyl-2-pentanone | 25 | U | 25 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-12 | SW8260B | ATGW04512013XX | Acetone | 37 | | 37 | J | CCV%D | ug/l |
| 480-38151-1 | 480-38151-13 | SW8260B | DCMW2212013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-13 | SW8260B | DCMW2212013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-13 | SW8260B | DCMW2212013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-14 | SW8260B | DCMW1912013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-14 | SW8260B | DCMW1912013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-14 | SW8260B | DCMW1912013XX | Acetone | 36 | | 36 | J | CCV%D | ug/l |
| 480-38151-1 | 480-38151-2 | SW8260B | DCMW1512013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-2 | SW8260B | DCMW1512013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-2 | SW8260B | DCMW1512013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-3 | SW8260B | DCMW1712013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-3 | SW8260B | DCMW1712013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-3 | SW8260B | DCMW1712013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-4 | SW8260B | DCMW1812013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-4 | SW8260B | DCMW1812013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-4 | SW8260B | DCMW1812013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-5 | SW8260B | DCMW2012013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-5 | SW8260B | DCMW2012013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-5 | SW8260B | DCMW2012013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-6 | SW8260B | DCMW2112013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-6 | SW8260B | DCMW2112013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-6 | SW8260B | DCMW2112013XX | Acetone | 440 | | 440 | J | CCV%D | ug/l |
| 480-38151-1 | 480-38151-8 | SW8260B | DCMW2312013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-8 | SW8260B | DCMW2312013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |

TABLE 3
VALIDATION QUALIFICATION ACTION SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-------------|---------------|-------------------|-----------------|---------------------------------------|------------|---------------|--------------|-----------------|-----------------|-------|
| 480-38151-1 | 480-38151-8 | SW8260B | DCMW2312013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-9 | SW8260B | DCMW1612013XX | 2-Hexanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-9 | SW8260B | DCMW1612013XX | 4-Methyl-2-pentanone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38151-1 | 480-38151-9 | SW8260B | DCMW1612013XX | Acetone | 5.0 | U | 5.0 | UJ | CCV%D | ug/l |
| 480-38152-1 | 480-38152-1 | SW8260B | ATGW026072013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 52 | U | 52 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-1 | SW8260B | ATGW026072013XX | Cyclohexane | 52 | U | 52 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-1 | SW8260B | ATGW026072013XX | Methyl cyclohexane | 52 | U | 52 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-10 | SW8260B | ATGW045122013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 43 | U | 43 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-10 | SW8260B | ATGW045122013XX | Cyclohexane | 43 | U | 43 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-10 | SW8260B | ATGW045122013XX | Methyl cyclohexane | 43 | U | 43 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-11 | SW8260B | ATGW045162013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 59 | U | 59 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-11 | SW8260B | ATGW045162013XX | Cyclohexane | 59 | U | 59 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-11 | SW8260B | ATGW045162013XX | Methyl cyclohexane | 59 | U | 59 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-2 | SW8260B | ATGW026072013XD | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 53 | U | 53 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-2 | SW8260B | ATGW026072013XD | Cyclohexane | 53 | U | 53 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-2 | SW8260B | ATGW026072013XD | Methyl cyclohexane | 53 | U | 53 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-3 | SW8260B | ATGW026122013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 52 | U | 52 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-3 | SW8260B | ATGW026122013XX | Cyclohexane | 52 | U | 52 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-3 | SW8260B | ATGW026122013XX | Methyl cyclohexane | 52 | U | 52 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-4 | SW8260B | ATGW043132013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 45 | U | 45 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-4 | SW8260B | ATGW043132013XX | Cyclohexane | 45 | U | 45 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-4 | SW8260B | ATGW043132013XX | Methyl cyclohexane | 45 | U | 45 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-5 | SW8260B | ATGW043152013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 51 | U | 51 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-5 | SW8260B | ATGW043152013XX | Cyclohexane | 51 | U | 51 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-5 | SW8260B | ATGW043152013XX | Methyl cyclohexane | 51 | U | 51 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-6 | SW8260B | ATGW046142013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 46 | U | 46 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-6 | SW8260B | ATGW046142013XX | Cyclohexane | 46 | U | 46 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-6 | SW8260B | ATGW046142013XX | Methyl cyclohexane | 46 | U | 46 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-7 | SW8260B | ATGW046172013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 54 | U | 54 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-7 | SW8260B | ATGW046172013XX | Cyclohexane | 54 | U | 54 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-7 | SW8260B | ATGW046172013XX | Methyl cyclohexane | 54 | U | 54 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-8 | SW8260B | ATGW002132013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 67 | U | 67 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-8 | SW8260B | ATGW002132013XX | Cyclohexane | 67 | U | 67 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-8 | SW8260B | ATGW002132013XX | Methyl cyclohexane | 67 | U | 67 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 47 | U | 47 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | Acetone | 230 | U | 230 | UJ | MS-L | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | Bromoform | 47 | U | 47 | UJ | MS-L | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | Carbon disulfide | 47 | U | 47 | UJ | MS-L | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | Chloroethane | 47 | U | 47 | UJ | MS-L | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | Cyclohexane | 47 | U | 47 | UJ | CCV%D | ug/kg |
| 480-38152-1 | 480-38152-9 | SW8260B | ATGW002072013XX | Methyl cyclohexane | 47 | U | 47 | UJ | CCV%D | ug/kg |

Units:

ug/kg = microgram per kilogram

Validation Reason Codes:

CCV%D =

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

TABLE 3
VALIDATION QUALIFICATION ACTION SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

| SDG | Lab Sample ID | Analytical Method | Field Sample ID | Parameter | Lab Result | Lab Qualifier | Final Result | Final Qualifier | Val Reason Code | Units |
|-----|---------------|-------------------|-----------------|-----------|------------|---------------|--------------|-----------------|-----------------|-------|
|-----|---------------|-------------------|-----------------|-----------|------------|---------------|--------------|-----------------|-----------------|-------|

ug/l = microgram per liter

Validation Qualifier:

J = Value is estimated

U = not detected, value is the reporting limit

H = Holding time exceeded

CCVRRF =

FD =

HT = Holding time for analysis exceeded

ICVRRF =

LCS-H = LCS recovery high

LCS-L = LCS recovery low

MS-H = MS and/or MSD recovery high

MS-L = MS and/or MSD recovery low

MS-RPD = MS-MSD RPD limit exceeded