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CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
SOUTH PLAINFIELD, NEW JERSEY

OPERABLE UNIT 3: GROUNDWATER
Remedial Action

Baseline Groundwater Sampling

FINAL DATA SUMMARY REPORT

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Glossary of Acronyms

2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-*p*-dioxin
APP	Accident Prevention Plan
ARAR	Applicable or Relevant and Appropriate Requirements
bgs	below ground surface
BMP	Baseline Monitoring Program
CDE	Cornell-Dubilier Electronics
CEA	Classification Exception Area
cDCE	cis-1,2-Dichloroethene
CERCLA	Comprehensive Environmental Response and Liability Act
CLP	Contract Laboratory Program
COC	Contaminant of Concern
CSM	Conceptual Site Model
CVOC	Chlorinated Volatile Organic Compound
DESA	Division of Environmental Science and Assessment
DPW	Department of Public Works
DQCR	Daily Quality Control Report
DQCSR	Data Quality Control Summary Report
DSR	Data Summary Report
FLUTe™	Flexible Underground Liner Technologies, Ltd. LC
FLUTe™ wells	FLUTe™ multi-level sampling systems
FW	Foster-Wheeler Environmental Corporation
FPW	Former Production Well
frac tank	Fractionation tank
ft	feet
HxCDF	hexachlorodibenzofuran
IDW	Investigation-Derived Waste
LTMP	Long-Term Monitoring Plan
MCUA	Middlesex County Utility Authority
MTBE	methyl tert butyl ether
msl	Mean Sea Level
MW	monitoring well
NAPL	Non-Aqueous Phase Liquid
NCP	National Contingency Plan
ND	Non-detect
NJDEP	New Jersey Department of Environmental Protection
OU	Operable Unit

PA	Pennoni Associates
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
PeCDD	Pentachlorodibenzodioxin
PID	Photoionization Detector
pg/L	picograms per liter
ppm	parts per million
PRG	Preliminary Remediation Goals
QAPP	Quality Assurance Project Plan
RA	Remedial Action
RI	Remedial Investigation
ROD	Record of Decision
Site	Cornell-Dubilier Electronics Superfund Site
SSHP	Site-Specific Safety and Health Plan
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCDD	Tetrachlorodibenzodioxin
TCE	Trichloroethene
TCL	Target Compound List
TEF	Toxic Equivalency Factor
TEQ	Toxic Equivalence
The former CDE facility	The Former CDE Manufacturing Facility
TI	Technical Impracticability
ug/L	micrograms per liter
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VC	Vinyl Chloride
VOC	Volatile Organic Compound

1. INTRODUCTION

Louis Berger has been contracted by the United States Army Corps of Engineers (USACE), under Contract Number W912DQ-11-D-3009, Task Order No. 0019, to perform Remedial Action (RA) activities at the Cornell-Dubilier Electronics (CDE) Superfund Site Operable Unit (OU) No. 3, located in South Plainfield, New Jersey (Figure 1-1). The purpose of the RA is to establish a baseline for the long-term sampling and analysis program, which will monitor groundwater contamination at the site in order to assess groundwater migration and prevent exposure. RA tasks included groundwater well installation and two rounds of baseline groundwater monitoring. The baseline groundwater monitoring network is composed of 38 monitoring wells (four of which were installed during this program) located on and in the vicinity of the former CDE facility. This well network discussed further in Section 3.0.

The purpose of this Data Summary Report (DSR) is to describe the rationale, objectives, data collection, sampling, results, and reporting procedures that were implemented by Louis Berger during both rounds of the Baseline Monitoring Program (BMP).

1.1. Background

CDE operated at 333 Hamilton Boulevard, South Plainfield, Middlesex County, New Jersey from 1936 to 1962, manufacturing electronic parts and components, including capacitors. During a series of site investigations in the late 1990s, the United States Environmental Protection Agency (USEPA) detected elevated concentrations of volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) in the soil, groundwater, and interiors of buildings at the former CDE facility; on nearby residential, commercial, and municipal properties; in the sediments and surface water of Bound Brook, which is adjacent to the northeast corner of the former CDE facility; and in groundwater proximate to the former CDE facility. The site was included on the National Priorities List in July 1998.

The Site has been divided into four OUs by USEPA:

- Operable Unit 1 (OU1) addresses residential, commercial, and municipal properties in the vicinity of the former CDE facility. On September 30, 2003, USEPA signed a Record of Decision (ROD) to address OU1.
- Operable Unit 2 (OU2) addresses contaminated soils and buildings at the former CDE facility. On September 30, 2004, USEPA signed a ROD to address OU2.
- Operable Unit 3 (OU3) addresses contaminated groundwater. In September 2013, USEPA signed a ROD to address OU3.
- Operable Unit 4 (OU4) addresses Bound Brook. In May 2015, USEPA signed a ROD to address OU4.

Investigations performed at the former CDE facility in the late 1980s and in close proximity to the former CDE facility in the mid-to-late 2000s documented concentrations of VOCs, chlorinated VOCs (CVOCs), PCBs, pesticides, and inorganics in bedrock groundwater at the former CDE facility. A Remedial Investigation (RI) conducted by Louis Berger and Malcolm Pirnie/ARCADIS from October 2009 to December 2011 expanded the study area surrounding the former CDE facility to assess contaminant migration. Based on comparison of the detected constituents to potential clean-up standards, VOCs, PCBs, metals, dioxins/furans, pesticides, and semi-volatile organic compounds (SVOCs) were identified as contaminants of concern (COCs). The RI contributed to the ROD signed for OU3, which prescribed access control and long-term monitoring to manage exposure to groundwater contamination.

The four new monitoring wells installed during this program expand the well network to permit assessment of migration farther from the former CDE facility than was performed for the RI.

The following terminology is used throughout this document:

- The **"Site"** refers to all four OUs which comprise the CDE Superfund Site, and the extent of each OU investigation;
- The **"former CDE facility"** refers to the physical extent of the industrial park operated at 333 Hamilton Boulevard, which is OU2; and
- The **"OU3 Study Area"** and **"OU3"** refer to the geographic extent of the groundwater investigation and associated contamination.

2. SCOPE AND OBJECTIVES

The RI indicated that trichloroethene (TCE) and cis-1,2-dichloroethene (cDCE) are present in groundwater at concentrations greater than the Preliminary Remediation Goals (PRGs) established in the ROD. Based on the RI and the other studies, the USEPA determined that the appropriate remedy for groundwater at the site was a combination of institutional controls and groundwater monitoring. The selected remedy satisfies the requirements of the nine evaluation criteria for remedial alternatives identified in Section 121 of the Comprehensive Environmental Response and Liability Act (CERCLA) and the National Contingency Plan (NCP; 40 CFR § 300.430[e] [9]). The selected remedy includes the following components:

- Prevention of exposure to site groundwater contamination by continuing efforts to identify existing private wells within the OU3 study area and by placing institutional controls in the form of a Classification Exception Area (CEA) to prevent the installation of new drinking water wells.
- Implementation of a long-term sampling and analysis program to monitor the groundwater contamination at the site in order to prevent exposure and assess groundwater migration. The Long-Term Monitoring Program (LTMP) will be implemented over a 30-year period following the baseline monitoring.
- Implementation of a long-term vapor intrusion monitoring program. The USEPA is evaluating vapor intrusion issues related to site contaminants under a separate monitoring program.

The USEPA evaluated alternatives for restoration of groundwater to meet Applicable or Relevant and Appropriate Requirements (ARARs) and concluded that no practicable alternatives could be implemented. Consequently, the USEPA invoked an ARAR waiver for the groundwater at the site due to technical impracticability (TI).

The objective of the baseline monitoring, as specified in the Quality Assurance Project Plan (QAPP), was to address the following questions:

- Is the monitoring network sufficient to assess whether the extent of groundwater contamination attributable to the Site is remaining stable and not expanding beyond the CEA?
- Are there sufficient data to make an informed evaluation of the baseline (ambient) nature and extent of contamination in groundwater?

The purpose of this report is to present data obtained during the baseline sampling program, which establishes baseline conditions to which LTMP data will be compared to evaluate contaminant migration and degradation. This DSR also presents recommendations for implementation of the LTMP, developed based on the baseline monitoring program.

2.1. Preliminary Remediation Goals

The PRGs established by the ROD apply to a series of contaminants detected in groundwater during previous studies, including the investigation performed by Foster-Wheeler Environmental Corporation (FWENC) in 2000 and the Louis Berger and ARCADIS/Malcolm Pirnie RI referenced previously. The PRGs were developed in accordance with Section 121 (d) of the CERCLA and drew upon ARARs originating with State and Federal sources. The details of this process are fully described in the RI and the ROD.

The PRGs for OU3 groundwater are included as Table 2-1.

3. FIELD PROCEDURES

The following tasks were performed to collect the data required to support the scope and objectives detailed in Section 2:

- Borehole Drilling
- Borehole Characterization
- Multi-level Monitoring Well Design and Installation
- Survey of Well Completions
- Baseline Sampling
- Gauging Well Network
- Groundwater Sample Collection
- Investigation-Derived Waste Management

All field activities were performed in accordance with the procedures described in the BMP QAPP and documented in Daily Quality Control Reports (DQCRs; Appendix A).

3.1. Additions to the Well Network

Based on previous hydraulic and contamination characterization efforts conducted during the RI, four new monitoring well (MW) locations were chosen to address uncertainty in the Conceptual Site Model (CSM). These locations expanded the well network to the north and northeast, and are located in South Plainfield:

- MW-24, located on the west side of Freed Place between Merchants Avenue and Van Fleet Avenue with a depth of 501 feet below ground surface (bgs);
- MW-25, located on the walking path in the northeast corner of Spring Lake Park near the southern terminus of Mellon Street with a depth of 500 feet bgs;
- MW-26, located along the eastern edge of the parking lot for the South Plainfield Recreational Pool on Cady Lane with a depth of 501 feet bgs; and
- MW-27, located in the road near the eastern terminus of Michael Street with a depth of 500 feet bgs.

A list of the new wells is presented in Table 3-1. Network well locations are shown on Figure 3-1.

3.1.1. Utility Clearance

A utility clearance survey was conducted at each new well location during February and March of 2016 to locate possible buried utilities, underground structures, or other subsurface obstructions. Methods utilized for this work included time domain electromagnetic induction and ground-penetrating radar. The results of this survey are presented in Appendix B.

3.1.2. Well Drilling and Development

During the period between February 16, 2016 and May 12, 2016, Louis Berger's drilling subcontractor, Advanced Drilling, Inc. (ADI), advanced monitoring wells at the four locations described in Section 3.1, above. All four wells were drilled using water rotary techniques. Borehole gases were monitored using a Photoionization Detector (PID) to monitor compliance with air monitoring action levels presented in the Site Safety and Health Plan (SSHP), which is Appendix 3 to the Accident Prevention Plan (APP). All PID readings fell below the identified levels.

Each borehole was initially advanced from the ground surface to ten feet into competent bedrock, and surface steel casings were installed once this depth was reached. This section of the well had a diameter of 10 inches. After casing installation, the diameter was reduced to six inches and each boring was advanced to the design depth. Construction details for each well are summarized below.

- **MW-24:** Drilling at MW-24 was initiated on April 5, 2016. At this location, competent bedrock was encountered at 34 ft bgs, yielding a cased depth of 44 ft bgs. Drilling at MW-24 was completed on April 20, 2016 at a depth of 501 feet.
- **MW-25:** Drilling at MW-25 was initiated on April 25, 2016. At this location, competent bedrock was encountered at 45 ft bgs, yielding a cased depth of 55 ft bgs. Drilling at MW-25 was completed on May 9, 2016 at a depth of 500 feet.
- **MW-26:** Drilling at MW-26 was initiated on February 16, 2016. At this location, competent bedrock was encountered at 63 feet below ground surface (ft bgs), yielding a cased depth pf 73 ft bgs. Drilling at MW-26 was completed on March 1, 2016 at a depth of 501 ft bgs.
- **MW-27:** Drilling at MW-27 was initiated on March 14, 2016. At this location, competent bedrock was encountered at 67 ft bgs, yielding a cased depth of 77 ft bgs. Drilling at MW-27 was completed on March 31, 2016 at a depth of 500 feet.

Boreholes were developed using a submersible pump and sealed with "blank" liners constructed by Louis Berger's subcontractor Flexible Liner Underground Technologies (FLUTe™). "Blank" liners are those which do not contain any sampling ports. FLUTe™ "wells" – multi-level sampling systems - are discussed in more detail in Section 3.1.4, below.

Well installation and completion activities were conducted in accordance with approved work plan methods.

3.1.3. Borehole Characterization

Borehole characterization data, including geophysics and transmissivity, were collected at the four new locations between May 16 and May 19, 2017. These results were obtained to characterize the properties of the borehole, bedrock, fracture network, and open-hole hydraulics. Specific geophysical information logged included acoustic televiewer, caliper, fluid temperature, fluid conductivity, and heat pulse flowmeter. A transmissivity profile was also developed at each location to characterize groundwater flow. Geophysics data were collected by Louis Berger's geophysical subcontractor Hager-Richter, and transmissivity information were obtained by FLUTe™. The blank liners installed at the conclusion of well development were removed to perform borehole characterization, specifically borehole geophysics and transmissivity testing, and re-installed once data collection activities were complete. At each well location, borehole geophysics data were collected first, and transmissivity profiling concluded with the re-installation of the blank liners.

The results of borehole characterization logging are presented in Appendix C, and the combined log of characterization results is included as Appendix D.

3.1.4. Water FLUTe™ Liner Design and Installation

Borehole characterization results were used to design multi-level monitoring systems for each well. Each multi-level system is composed of a series of monitoring intervals (ports) and sealed intervals, with monitoring intervals spanning sufficient transmissivity zones to ensure that sample collection could be accomplished in a timely manner. The new monitoring wells are characterized by the following number of monitoring ports.

- MW-24: 6 ports
- MW-25: 6 ports
- MW-26: 6 ports
- MW-27: 5 ports

A summary of the sampling intervals and corresponding port numbers is presented in Table 3-1. The multi-level systems were installed between August 8 and 11, 2016. The as-constructed well logs are presented in Appendix E.

3.1.5. Well Survey

Louis Berger's surveying subcontractor, Pennoni Associates (PA), performed survey activities for this program. PA surveyed two "sets" of wells: the four newly-installed multi-level wells, and the wells located on the former CDE facility property. The former CDE facility property wells were re-surveyed to record the new elevations resulting from the 2015 installation of the upper two inches of the asphalt cap. The survey on the former CDE facility property also captured elevation changes resulting from the conversion of stick-up completions at FPW, MW-14S, MW-14D, MW-15S, and MW-15D to flush-mount completions. The following measurements were collected:

- At each re-surveyed traditional well, PA collected the northing and easting coordinate information, and elevations of the well casing, polyvinylchloride (PVC) riser, and the ground surface.
- At each multi-level well, PA collected the northing and easting coordinate information, and elevations of the well casing, PVC riser, ground surface, and the top of each brass port fitting. Survey data are presented in Table 3-2.

3.2. Baseline Groundwater Sampling

Baseline groundwater sampling was performed to establish the baseline conditions which will be used as a reference during the LTMP. The baseline program included two rounds of groundwater sampling: Round 1, conducted during December 2016 and January 2017, and Round 2, conducted during July and August 2017. Monitoring wells included in the baseline program are shown on Figure 3-1.

The 38 wells which comprise the network include a total of 161 individual sampling intervals (12 screened intervals and 149 FLUTe™ port intervals). Of these, 155 were sampled during Round 1, and 157 were sampled during Round 2. Intervals which were not sampled are discussed in Section 3.7.

3.2.1. Gauging

The depth to groundwater within each conventional well and multi-level system port was measured prior to sampling, and the results were used to characterize the underlying groundwater hydraulics during each sampling round. The FLUTe™ wells were purged synoptically over a 1.5-day period and gauged during the following 1.5-day

period. The Round 1 water level gauging was conducted on December 23, 2016, and the Round 2 water level gauging occurred on July 10, 2017.

3.2.2. Groundwater Sample Collection

The 12 single-screen wells were sampled via low-flow methodology (Appendix F). Each well was purged until stabilization in water quality parameters was observed; parameters monitored include pH, conductivity, dissolved oxygen, temperature, oxidation-reduction potential, and turbidity. NJDEP-Certified Horiba-U52 water quality meters were used to assess water quality parameter stability. Field measurements for each well were recorded on purge log forms (Appendix G).

The 26 multi-level monitoring wells were sampled in accordance with the manufacturer's guidance. Due to a design change, FLUTe™ recommends that wells installed after May 2009 undergo a minimum of four full purges prior to sampling rather than the originally-recommended two full purges. Since the well network contains wells installed both before and after May 2009, the manufacturer's recommended sampling procedure for wells installed before and after May 2009 are included in Appendix H. These procedures are consistent with (and included in) the BMP QAPP.

Water quality parameters along with the total purge volume were noted on purge log forms (Appendix G) as described above. Where possible, ports were simultaneously purged and sampled using a six-port manifold. Factors impacting use of the manifold included field personnel availability, manufacturer's recommendation, and the number of ports in the well. The total number of field samples collected during Rounds 1 and 2 is discussed below.

3.2.3. Groundwater Sample Analysis

Groundwater samples were submitted for analysis of organic and inorganic parameters, the classes of which are summarized below.

Contaminant Class	Round 1 Analytical Method	Round 2 Analytical Method
Target Compound List (TCL) VOCs, Trace Level	Contract Lab Program (CLP) Method SOM2.2	CLP Method SOM2.4
TCL VOCs, Low Level	CLP Method SOM2.3	CLP Method SOM2.4
TCL Semi-Volatile Organic Compounds (SVOCs)	CLP Method SOM2.3	Method SW-846
TCL PCB Aroclors	CLP Method SOM2.3	Method SW-846 8082A
PCB Congeners	USEPA Method 1668C	USEPA Method 1668C
TCL Pesticides	CLP Method SOM2.3	Method SW-846 8081B
Dioxins/Furans	USEPA Method 1613B	USEPA Method 1613B
Target Analyte List (TAL) Metals	USEPA Method 200.8, Rev. 3.4	USEPA Method 200.8, Rev. 3.4

See BMP QAPP Worksheet 15 for additional details, including listings of the specific contaminants in each class.

In order to estimate the extent of the source area, VOCs were analyzed at two different concentration levels: Low and Trace. Wells were categorized based on location:

- Low level analyses were performed on samples from wells considered to be near the source area, specifically the wells which are located on or immediately adjacent to the former CDE facility property.
- Trace level analyses were performed on samples from wells considered to be outside the source area, specifically the wells not on or immediately adjacent to the former CDE facility Property.

Well location in relation to the source area was established based on RI data.

PCB Congener and Dioxin/Furan results were collected specifically to calculate the Toxic Equivalency (TEQ), a weighted quantity measure based on the toxicity of each member of a specific category, for example dioxin and dioxin-like compounds or polycyclic aromatic hydrocarbons, relative to the most toxic members of that category. Toxic Equivalency Factors (TEFs) established by the USEPA were used in this assessment (USEPA 2007).

The category applicable to OU3 includes dioxin and dioxin-like compounds. The TEQ for these constituents were calculated in relation to 2,3,7,8-Tetrachlordibenzodioxin (TCDD), the Dioxin/Furan compound with a TEF of 1, which is the maximum assigned value.

The number of field samples collected during Rounds 1 and 2 for each analyte group is summarized below.

Analyte Group	Number of Field Samples Collected, Round 1	Number of Field Samples Collected, Round 2
TCL VOC[1,2]	155	157
TCL SVOC	155	157
TCL Pesticides	155	157
TCL PCB Aroclors	155	157
PCB Congeners	10	11
Dioxins/Furans	10	11
TAL Metals and Mercury	155	157

1: Round 1 includes 102 Low Level VOC samples and 53 Trace Level VOC samples.
2: Round 2 includes 104 Low Level VOC samples and 53 Trace Level VOC samples.

The location and depth of PCB Congener and Dioxin/Furan samples were consistent for both Rounds.

Analytical testing was performed by a number of different laboratories, including subcontract, the USEPA Division of Environmental Assessment (DESA), and the USEPA Contract Laboratory Program (CLP). Specific labs utilized during the baseline program are presented below.

Baseline Sampling Round	Analytical Group	Laboratory	Laboratory Location	Laboratory Contract Type
Round 1	Trace and Low TCL VOC	Shealy Environmental Services	West Columbia, SC	CLP
	TCL SVOC			
	TCL Pesticides			
	TCL PCB Aroclors			
	PCB Congeners	SGS-North America	Wilmington, NC	Louis Berger Subcontract
	Dioxins/Furans			
	TAL Metals and Mercury	USEPA DESA	Edison, NJ	DESA
Round 2	Trace and Low TCL VOC	ALS	Salt Lake City, UT	CLP
	TCL SVOC	SGS-Accutest	Dayton, NJ	Louis Berger Subcontract
	TCL Pesticides			
	TCL PCB Aroclors			
	PCB Congeners	SGS-North America	Wilmington, NC	Louis Berger Subcontract
	Dioxins/Furans			
	TAL Metals and Mercury	USEPA DESA	Edison, NJ	DESA

Field quality control (QC) samples, specifically field duplicates, were collected at a frequency of ten percent for VOCs, and five percent for all other parameters. The number of field duplicate samples collected is summarized below.

Analytical Group	Number of Field QC Samples Collected, Round 1	Number of Field QC Samples Collected, Round 2
TCL VOC[1,2]	15	15
TCL SVOC	8	8
TCL Pesticides	8	8
TCL PCB Aroclors	8	8
PCB Congeners	1	2
Dioxins/Furans	1	2
TAL Metals and Mercury	8	8

1: Rounds 1 and 2 included 10 Low Level VOC QC samples and 5 Trace Level VOC QC samples.

One field blank sample was also collected during each round of conventional well sampling. The sample was obtained between locations after the decontamination step was completed.

The total number of field and field quality control samples collected during the baseline programs is presented below:

Analytical Group	Total Number of Field Samples Collected, Round 1	Total Number of Field Samples Collected, Round 2
TCL VOC[1,2]	171	173
TCL SVOC	164	166
TCL Pesticides	164	166
TCL PCB Aroclors	164	166
PCB Congeners	11	13
Dioxins/Furans	11	13
TAL Metals and Mercury	164	166

1: Round 1 includes 112 Low Level VOC samples and 59 Trace Level VOC samples. The Trace Level quantity includes the Field Blank.
2: Round 2 includes 114 Low Level VOC samples and 59 Trace Level VOC samples. The Trace Level quantity includes the Field Blank.

Lab quality control samples, including matrix spike (MS), matrix spike duplicates (MSD), and lab replicates, were collected at a frequency of ten percent for VOCs, and five percent for all other parameters. One trip blank was included with each VOC shipment.

A full summary of the sampling and analysis program is presented in Table 3-3. Data validation for the Round 1 and Round 2 results are discussed in their respective Data Quality Control Summary Reports (DQCSRs).

3.2.4. Non-Aqueous Phase Liquid Sample Collection

Non-aqueous phase liquid (NAPL) was encountered at Ports 1 (depth interval of 30 to 35 ft bgs) and 4 (depth interval of 65 to 70 ft bgs) of MW-14S during Round 1, and at Port 4 of MW-14S during Round 2. NAPL was collected for analysis during each round and submitted for VOC, SVOC, and PCB Aroclor analysis.

3.3. Sample Documentation and Identification System

Each sample was assigned a unique sampling identification number. See BMP QAPP Worksheet 27 for a description of the sample numbering system.

3.4. Investigation-Derived Waste

The well installation program produced investigation-derived waste (IDW) comprised of drill cuttings, drilling mud/sludge, and water. A secured (fenced-in and locked) IDW staging area was set up in a portion of the gravel lot managed by the South Plainfield Department of Public Works (DPW) at the corner of Belmont and Spicer Avenues, across the street from the South Plainfield DPW. IDW for the installation program was managed by Louis Berger's IDW subcontractor SteriCycle, Inc. IDW composed of solids was stored in a 20 cubic yard (cy) roll-off container, mud/sludge was stored in sealed 55-gallon drums, and water was stored in frac tanks. Drums were staged on pallets with secondary containment. All IDW was located inside the secured area. Aqueous IDW was disposed of at SteriCycle's Hatfield, PA location, and solids were disposed of at Soil Safe, Inc.

The baseline sampling program produced IDW consisting of purge water and small quantities of NAPL. IDW was stored in labeled 55-gallon drums staged on pallets, which were covered with thick sheet plastic. These drums were stored on the former CDE facility property during Rounds 1 and 2 in the area behind the catch basin.

The containerized Round 1 IDW water was treated by the mobile treatment system utilized to treat water generated during the OU4 aquifer pump test program. This treated water was disposed of into the sewer system under a permit issued by the Middlesex County Utility Authority (MCUA) to Louis Berger's OU4 IDW management subcontractor, CEMCO. Round 2 IDW was not treated on-site and instead was disposed of off-site through the OU4 program by CEMCO; the Round 2 IDW water was disposed of at CycleChem.

3.5. Decontamination Procedures

Field instruments, including the Horiba and water level meter, were rinsed with deionized water between uses. For the single-screen monitoring wells, the bladder pumps were opened for decontamination and the grab plate and O-Ring replaced, in accordance with the procedures outlined in Attachment 3 of the BMP QAPP. As the FLUTe™ multi-level monitoring wells are equipped with dedicated sampling systems, decontamination is not required.

3.6. Audits

3.6.1. Technical Systems

Two technical systems audits were performed during each round of the baseline groundwater sampling program. One assessed the conventional monitoring well sampling, and the second assessed the FLUTe™ multi-level well sampling. During Round 1, the conventional well sampling audit was performed on December 21, 2016 and the FLUTe™ multi-level well sampling audit was performed on January 4, 2017. During Round 2, the audit of conventional monitoring well sampling was performed on July 11, 2017 and the audit of the FLUTe™ multi-level well sampling was performed on July 17, 2017. The purpose of the audits was to confirm adherence to the QAPP and field standard operating procedures. No deficiencies or non-conformances were observed during the audits.

The details of these audits are presented in the DQCSRs for Rounds 1 and 2, which were submitted under separate cover.

3.6.2. Health and Safety

One health and safety audit was performed during each round of the baseline groundwater sampling program. The Round 1 audit was conducted on December 21, 2016 and the Round 2 audit was performed on July 11, 2017. The purpose of the audits was to confirm adherence to the health and safety procedures established in the APP/SSHP.

Several minor non-conformances were observed during the Round 1 audit. These items were addressed with the team for field correction during the audit. No deviations from established health and safety procedures were observed during the Round 2 audit.

The details of these audits are presented in the DQCSRs for Rounds 1 and 2, which were submitted under separate cover.

3.7. Deviations

3.7.1. Well Damage

During Round 1, three of the single-screen wells (MW-03, MW-04, and MW-06) could not be sampled with the standard 2-inch diameter bladder pump used for the rest of the conventional wells. This was due to blockages, later found to be bends (or minor kinks) in the casing of each well, which inhibited lowering of the pump to the water table. A 1-inch diameter bladder pump could be lowered past the bends at MW-03 and MW-04, and samples were obtained at those locations. MW-06 was not sampled during Round 1; the bend in casing prevented passage of the 1-inch diameter pump.

In June of 2017, between Rounds 1 and 2, subcontract driller ADI assessed the bends in the casings of all three wells. The initial step of this assessment was the advancement of a 5-ft drill rod with a diameter of 1.33 inches into each well until the drill rod stopped descending into the well, indicating the presence of a bend. Results of this assessment revealed:

- MW-03: drill rod was advanced approximately 3.5 to 4 ft bgs (advanced via drill rig) to refusal;
- MW-06: drill rod was advanced 4 ft bgs (advanced manually) to refusal;
- MW-04: the drill rod was advanced to 17 ft bgs with no hindrance.

The well casing at MW-03 appeared to move during this initial investigation, prompting ADI to remove the drill rod from the rig and re-attempt driving the rod manually. The rod descended an additional 6 ft bgs during this attempt, with very slight movement in the casing observed. The third attempt consisted of driving a 2-inch diameter split spoon into the well. Approximately 6 to 7 hammer blows were applied, which caused the well to shift downward approximately 2 inches. Once the blows were complete, the well returned to its original position. Field observations indicated that the well diameter increased, and that the angle of the well in the outer casing straightened. After this step, a 2-inch water pump was advanced successfully into the well to a depth of 30.7 ft bgs.

At MW-06, ADI elected to fabricate a tool to widen the casing. This tool consisted of a tapered point, which was added to the bottom of the drill rod. The tool was successfully advanced into and removed from the well using the rig without hindrance. A split spoon rod with a 2-inch diameter was then driven into the well to assess expansion of the narrow section; this rod was also removed without hindrance. After this step, a 2-inch water pump was advanced successfully into the well to a depth of 27.9 ft bgs.

At MW-04, a 2-inch diameter split spoon was advanced to approximately 47 ft bgs. A small “knock” was observed at approximately 25 ft bgs; it was not determined what caused the "knock." The descent of the split spoon was not impacted. No additional work was performed at this well.

All three of the repaired wells were sampled during Round 2.

3.7.2. FLUTe™ Ports Not Sampled

As indicated above, NAPL was encountered during the purging of the bedrock multi-level wells during both Rounds 1 and 2. When the NAPL phase was present within a water sample at amounts greater than trace globules, the sampling point was not sampled for groundwater. MW-14S Ports 1 and 4 were not sampled during Round 1, and MW-14S Port 4 was not sampled during Round 2.

Recharge issues were encountered in three FLUTe™ monitoring ports during the baseline monitoring program. Two of these, specifically ERT-2, Port 3 (depth interval of 54 to 59 ft bgs) and ERT-3, Port 4 (depth interval of 110 to 120 ft bgs), displayed a considerably slower natural recharge rate than was encountered at other ports within the associated well. Groundwater samples were not collected from these ports during the baseline program due to the low transmissivity of these zones, which require significant time to obtain each sample.

One additional monitoring port, ERT 8, Port 4, was also abandoned during the baseline program. In the case of this port, the first check valve appears to be stuck in the closed position, inhibiting recharge from the formation.

3.7.3. Mercury

Through an oversight by the analytical laboratory, mercury analysis was not performed on samples collected during Round 1. This was not discovered until after Round 1 was complete since final (validated) data sets were provided by DESA at the end of the program – results are not sent on an interim basis.

To prevent repeating this issue during Round 2, the requirement for mercury analysis was emphasized during the analytical request process, and also in coordination communication which occurred prior to Round 2. Mercury was analyzed in the Round 2 samples.

4. RESULTS

4.1. Water Level Measurements

As indicated in Section 3, depth to water measurements were collected during December 2016 (Round 1) and July 2017 (Round 2). Each measurement was then subtracted from the surveyed elevation at the well to calculate a water level elevation in feet above mean sea level (ft msl). Groundwater elevations observed during Rounds 1 and 2 are summarized in Table 4-1.

The vertical hydraulic head profiles for Rounds 1 and 2 are presented on Figure 4-1. The profiles suggest that bedrock is fairly well hydraulically connected in the vertical direction, although far more transmissive in the horizontal direction. In addition, the hydraulic head values increase with depth in the northern parts of the study area, suggesting that the hydraulic effect of the Park Avenue Wellfield (located north of the site) is more pronounced in the shallow and intermediate zones.

The vertical profiles also indicate a decrease in water table elevation across the study area, moving from the south to the north (Table 4-1). Groundwater elevations range from 62.02 ft msl at ERT-8-1 to 42.57 ft msl at MW-25-1. This overall decrease is likely attributable to the Park Avenue Wellfield.

The vertical hydraulic head profiles from Rounds 1 and 2 also appear to demonstrate a seasonal trend. The Round 1 survey, conducted during the winter months, registered hydraulic head values that were generally one foot lower than the Round 2 survey, which was performed during the summer months. The preceding fall season was regarded as un-seasonally dry, which may have contributed to this trend.

4.2. Analytical Results

As indicated in Section 3, groundwater samples were collected from 155 of 161 locations during Round 1 and from 157 of 161 locations during Round 2. Summary statistics for the resulting data are presented in Table 4-2. Detections for Round 1 are included in Table 4-3A, and those for Round 2 are summarized in Table 4-3B. Validated data from both rounds are included as Appendix I. The quality of these data are discussed in the DQCSRs for Rounds 1 and 2.

4.2.1. Overall Summary

The dataset for each round was evaluated to assess contaminant concentrations in relation to PRG values established in the ROD. Brief summaries of the Round 1 and 2 results for each contaminant class are presented below. PRG values are presented Table 2-1. Sample totals referenced below include QC samples.

VOCs

During Round 1, VOCs were detected in 166 of the 171 samples collected (97%), and the PRG was exceeded for at least one VOC compound in 149 of the 171 samples collected (87%). The detection frequency during Round 1 for VOCs which exceeded the PRG at least once are as follows:

Detected VOC – Round 1	Number of Detections	Frequency of Detection
1,1,2-Trichloroethane	3	2%

Detected VOC – Round 1	Number of Detections	Frequency of Detection
1,1-Dichloroethene	49	29%
1,2,4-Trichlorobenzene	14	8%
1,4-Dichlorobenzene	4	2%
Benzene	1	< 1%
Chlorobenzene	4	2%
cis-1,2-Dichloroethene	51	30%
Methyl tert-butyl ether (MTBE)	1	< 1%
Tetrachloroethene	42	25%
trans-1,2-Dichloroethene	3	2%
Trichloroethene	148	87%
Vinyl chloride	34	20%

The maximum concentration of an individual VOC observed in Round 1 was 200,000 ug/L. Both TCE and cDCE were present at this amount at MW-14S-2, which is located in the southwestern part of the former CDE facility. This location was identified as within the former source area in the RI. MW-14S-2 draws groundwater from the depth interval of 41 to 46 ft bgs.

During Round 2, VOCs were detected in 173 of the 173 samples collected (100%), and the PRG was exceeded for at least one VOC compound in 138 of the 173 samples collected (80%). The detection frequency during Round 2 for VOCs which exceeded the PRG at least once are as follows:

Detected VOC – Round 2	Number of Detections	Frequency of Detection
1,1,2-Trichloroethane	4	2%
1,1-Dichloroethene	41	24%
1,2,4-Trichlorobenzene	8	5%
1,4-Dichlorobenzene	4	2%
Benzene	4	2%
Chlorobenzene	5	3%
cis-1,2-Dichloroethene	50	29%
Methyl tert-butyl ether	1	< 1%
Methylene chloride	7	4%
Tetrachloroethene	46	27%
trans-1,2-Dichloroethene	5	3%
Trichloroethene	138	80%
Vinyl chloride	39	23%

The maximum concentration of an individual VOC observed in Round 2 was 140,000 ug/L. cDCE was present at this amount at MW-11, which is screened from 34 to 59 ft bgs. The RI indicates that MW-11 is also located within the former source area.

SVOCs

During Round 1, SVOCs were detected in 60 of the 164 samples collected (37%). None of the detected SVOCs with an assigned PRG were present at concentrations above the associated PRG.

The maximum concentration of an individual SVOC observed was 12 ug/L. 1,4-Dioxane was present at this amount at FPW-2, which is located in the northeastern portion of the former CDE facility. This location is directly downgradient from the former source area, and FPW-2 (Port 2) draws water from the depth interval of 46 to 51 ft bgs, which is part of the shallow water-bearing zone (see Section 5 for a discussion of the water bearing zones).

During Round 2, SVOCs were detected in 69 of the 166 samples collected (42%). None of the detected SVOCs with an assigned PRG were present at concentrations above the PRG.

The maximum concentration of an individual SVOC observed was 5.4 ug/L. 1,4-Dioxane was present at this amount at FPW-2. The FPW is directly downgradient from the former source area, and FPW-2 (Port 2) is located in the shallow water bearing zone.

PCB Aroclors

During Round 1, PCB Aroclors were detected in 37 of the 164 samples collected (23%). Aroclor 1254 was present at concentrations above the assigned PRG in 9 of the 164 samples collected (6%).

The maximum concentration of Aroclor 1254 observed was 850 ug/L at MW-14D-2, which was also identified as within the former source area in the RI. MW-14D-2 draws groundwater from the depth interval of 123 to 133 ft bgs.

During Round 2, PCB Aroclors were detected in 20 of the 166 samples collected (12%). Aroclor 1254 was detected in 16 of the 166 samples collected (10%), and Aroclor 1248 was detected in 4 of the 166 samples collected (2%). The detection frequency during Round 2 for VOC PCB Aroclors which exceeded the PRG at least once are as follows:

Detected PCB Aroclor	Number of Detections	Frequency of Detection
Aroclor 1248	3	2%
Aroclor 1254	13	8%

The maximum concentration of an individual PCB Aroclor observed was 934 ug/L. Aroclor 1254 was present at this amount at MW-14S-1, located in the former source area. MW-14S-1 draws groundwater from the depth interval of 30 to 35 ft bgs.

Pesticides

During Round 1, pesticides were detected in 80 of the 164 samples collected (49%), and the PRG was exceeded for at least one pesticide compound in 15 of the 164 samples collected (9%). The detection frequency during Round 1 for Pesticides which exceeded the PRG at least once are as follows:

Detected Pesticide	Number of Detections	Frequency of Detection
4,4'-DDD	2	1%
4,4'-DDE	8	5%

Detected Pesticide	Number of Detections	Frequency of Detection
4,4'-DDT	5	3%
beta-BHC	5	3%
Dieldrin	13	8%
gamma-BHC (Lindane)	6	4%
Heptachlor	2	1%
trans-Chlordane	3	2%

The maximum concentration of an individual pesticide observed was 19 ug/L. 4,4'-DDT was present at this amount at MW-14D-3, located in the former source area. MW-14D-3 draws groundwater from the depth interval of 199 to 209 ft bgs, which is located in the deep water bearing zone (see Section 5 for a discussion of the water bearing zones).

During Round 2, pesticides were detected in 15 of the 166 samples collected (9%), and the PRG was exceeded for one of the pesticides, dieldrin, in 6 of the 166 samples collected (4%).

The maximum dieldrin concentration observed was 0.54 ug/L at ERT-8-2, located approximately 750 feet south of the former CDE facility. ERT-8-2 draws water from the depth interval of 31 to 41 ft bgs.

Metals

During Round 1, metals were detected in 164 of the 164 samples collected (100%), and the PRG was exceeded for at least one metal in 99 of the 164 samples collected (60%). The detection frequency during Round 1 for metals which exceeded the PRG at least once are as follows:

Detected Metal	Number of Detections	Frequency of Detection
Aluminum	17	10%
Arsenic	63	38%
Barium	4	2%
Chromium	1	1%
Iron	13	8%
Lead	11	7%
Manganese	46	28%

The maximum concentration of an individual metal observed was 9,200 ug/L. Barium was present at this amount at ERT-2-1, located just outside of the northeastern boundary of the former CDE facility. ERT-2-1 draws groundwater from the depth interval of 25 to 35 ft bgs.

During Round 2, metals were detected in 166 of the 166 samples collected (100%), and the PRG was exceeded for at least one metal in 101 of the 166 samples collected (61%). These include:

Detected Metal	Number of Detections	Frequency of Detection
Aluminum	22	13%
Arsenic	54	33%
Barium	3	2%
Iron	13	8%
Lead	21	13%
Manganese	51	31%

The maximum concentration of an individual metal observed was 9,000 ug/L. Iron was present at this amount at MW-06, which is screened from 29 to 44 ft bgs. MW-06 is located at the center of the former CDE facility property.

PCB Congeners and Dioxins/Furans

As discussed in Section 3, groundwater from selected locations was analyzed for PCB Congeners and Dioxins/Furans for the purposes of calculating the TEQ relative to 2,3,7,8-TCDD. These locations include:

Location	Depth (ft bgs)	Comment
ERT-4-4	83 to 88	Sampled during Rounds 1 and 2.
MW-01	24 to 49	Sampled during Rounds 1 and 2.
MW-11	34 to 59	Sampled during Rounds 1 and 2.
MW-12	35 to 60	Sampled during Rounds 1 and 2.
MW-14D-1	80 to 85	Sampled during Rounds 1 and 2.
MW-14D-2	123 to 133	Sampled during Rounds 1 and 2.
MW-14D-3	199 to 209	Sampled during Rounds 1 and 2.
MW-14S-1*	30 to 35	Not sampled during Round 1, sampled during Round 2.
MW-14S-2	41 to 46	Sampled during Rounds 1 and 2.
MW-14S-3	55 to 60	Sampled during Rounds 1 and 2.
MW-16-7	195 to 205	Sampled during Rounds 1 and 2.

* MW-14S-1 was not sampled during Round 1 due to the presence of NAPL.

All Dioxin/Furan compounds are included in this calculation, however only a subset of PCB Congeners, those which are considered “dioxin-like” in structure and behavior, are incorporated. The calculation is discussed further in Section 4.1.3, below.

PCB Congener List	
PCB-77	PCB- 156
PCB-81	PCB- 157
PCB- 105	PCB- 167
PCB- 114	PCB- 170
PCB- 118	PCB- 180
PCB- 123	PCB- 189
PCB- 126	PCB- 193

The concentration data for PCB Congeners and Dioxin/Furans are included in Tables 4-3A and 4-3B.

During Round 1, PCB Congeners were detected in 10 of the 10 samples collected (100%). All samples contained at least one PCB Congener; PCB-157 and PCB-169 were not detected in any samples.

Detected PCB Congener concentrations ranged from ND to 7.51 ug/L of PCB-118 at MW-14S-2, which is located within the former source area. MW-14S-2, and draws groundwater from the depth interval of 41 to 46 ft bgs.

During Round 1, Dioxins/Furans were detected in 8 of the 10 samples collected (80%). Dioxins/Furans concentrations ranged from ND to 738 picograms per liter (pg/L) of 1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF) at MW-14S-2, which is located within the former source area. MW-14S-2 draws groundwater from the depth interval of 41 to 46 ft bgs. Of the 17 Dioxin/Furan compounds, 14 were detected in at least one sample. 1,2,3,4,7,8-Hexachlorodibenzodioxin (HxCDD), 1,2,3,7,8-Pentachlorodibenzodioxin (PeCDD), and 2,3,7,8-TCDD were not detected in any samples.

During Round 2, PCB Congeners were detected in 11 of the 11 samples collected (100%). All samples contained at least one PCB Congener; PCB-157 and PCB-193 were not detected in any samples.

PCB Congener concentrations ranged from ND to 2.77 ug/L of PCB-118 at MW-14S-1, which is located within the former source area. MW-14S-1 draws groundwater from 30 to 35 ft bgs.

During Round 2, Dioxins/Furans were detected in 10 of the 11 samples collected (91%). Dioxins/Furans concentration ranged from ND to 427 pg/L of 1,2,3,4,7,8-HXCDF at MW-14S-1, which is located within the former source area. MW-14S-1 draws groundwater from the depth interval of 30 to 35 ft bgs. Of the 17 Dioxin/Furan compounds, 13 were detected in at least one sample. 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8-PeCDD, and 2,3,7,8-TCDD were not detected in any samples.

4.2.2. Select Chemicals of Concern

The ROD indicates that VOCs with the highest solubility have been the focus at OU3. TCE and cDCE are the most frequently detected and widely distributed CVOCs associated with the site. Vertical profiles for both rounds of TCE and cDCE results are presented on Figure 4-2 (TCE), and Figure 4-3 (cDCE). As shown on the figures, the concentrations observed at each location are generally consistent between the two baseline sampling events. As such, the following discussion will refer only to specific concentrations (values) obtained during Round 1.

TCE

TCE concentrations near or above the PRG of 1 ug/L were observed at all depths , with levels below the PRG generally observed in areas upgradient or far downgradient of the former CDE facility property (MWs 19, 22 through 24, 26, 27, ERT-3, and ERT-6 through ERT-8).

TCE concentrations in the former source area ranged from 12,000 ug/L at MW-12 to 200,000 ug/L at MW-14S-2, which draws groundwater from a depth of 41 to 46 ft bgs. Concentrations near the former source area are highest in shallow bedrock, and generally decrease with depth, as shown by the profiles for co-located well pair MW-14S/D.

In the medial portion of the plume (north of the former CDE facility, and generally south of South Plainfield High School), the highest concentrations of TCE in shallow bedrock were found at ERT-2-2 (450 ug/L) and MW-21-1 (230 ug/L), the highest concentrations in intermediate bedrock were found at ERT-2-7 (910 ug/L) and MW-20-3 (590 ug/L), and the highest concentrations in deep bedrock were found at MW-17-3 (1,100 ug/L) and MW-20-5 (340 ug/L).

In the distal portion of the plume, concentrations were generally less than 10 ug/L, with the exception of MW-27-3 (31 ug/L), located northeast of the former CDE facility.

TCE was not detected at ERT-3-1, ERT-5-1 and ERT-5-2, ERT-6-1, ERT-6-5, ERT-7-1, ERT-7-2, ERT-8 (all ports), FPW-1, MW-19-7 (545 to 555 ft bgs), MW-22-1, or MW-24-1 (85 to 95 ft bgs).

In general, TCE levels outside of the former CDE facility boundary decline with depth. Notable exceptions to this trend are MW-20 and MW-23, which are located along the centerline of the plume axis.

cDCE

cDCE concentrations vary across the site, with concentrations above the PRG of 70 ug/L generally observed in wells located on, or proximal to, the former CDE facility property. Locations downgradient of the former CDE facility that exceed the PRG for cDCE include: MW-13, MW-17, MW-20, and MW-22.

cDCE concentrations in the former source area ranged from 14,000 at MW-12 to 200,000 ug/L at MW-14S-2 (coincident with the TCE maximum). Concentrations in these wells generally decrease with depth, as shown by the profiles for co-located pair MW-14S/D.

In the medial portion of the plume (north of the former CDE facility, and generally south of the South Plainfield High School), the highest concentrations of cDCE in shallow bedrock were found at MW-20-1 (110 ug/L) and MW-21-1 (57 ug/L), the highest concentrations in intermediate bedrock were found at ERT-3-6 (370 ug/L) and MW-20-3 (170 ug/L), and the highest concentrations in deep bedrock were found at MW-17-3 (650 ug/L) and MW-20-5 (200 ug/L).

In the distal portion of the plume, concentrations were generally less than 7 ug/L, with the exception of MW-27-3 (49 ug/L) located northeast of the former CDE facility.

In general, cDCE levels outside of the former CDE facility boundary consistently decline with depth. The exceptions to this trend are ERT-3, MW-17, and MW-23, which are located along the centerline of the plume axis. Concentrations of cDCE at MW-22, located to the northeast of the former CDE facility, also increase with depth, and will be discussed further in Section 5.

4.2.3. TEQ

As indicated above, the PCB Congener and Dioxin/Furan results were used to calculate the TEQ in relation to 2,3,7,8-TCDD for the sampled locations. The results and locations for Rounds 1 and 2 are presented in Tables 4-4A and 4-4B and on Figure 4-4.

During Round 1, the Total TEQ ranged from 0.05 pg/L at MW-16-7 (195 to 205 bgs) to 7,119 pg/L at MW-14D-2 (123 to 133 ft bgs). The 10 pg/L PRG for TEQ was exceeded at 9 of the 11 locations sampled in Round 1. During Round 2, the Total TEQ ranged from 0.01 pg/L at MW-16-7 to 449 pg/L at MW-14S-1 (30 to 35 ft bgs). The PRG for TEQ was exceeded at 10 of the 12 locations sampled in Round 2.

4.2.4. NAPL

As discussed in Section 3.2, NAPL was encountered at MW-14S during sampling. Ports 1 and 4 contained NAPL during Round 1, and Port 4 contained NAPL during Round 2. One NAPL sample was collected from Port 4 during each round. The NAPL samples were collected for screening level testing and are only for reference. The VOC, SVOC, and PCB

Aroclor results are presented on Table 4-5. The NAPL sample collected during Round 1 was not analyzed within the required hold time.

In general, VOC and SVOC concentrations ranged from ND to over 100,000 ug/L during Round 1. During Round 2, overall constituent concentrations were lower, ranging from 20 ug/L to 38,000 ug/L. It should be noted that parts per million (ppm) levels of TCE, cDCE, and Aroclor 1254 were also observed.

Parameter	Maximum Round 1 Result (ug/L)	Maximum Round 2 Result (ug/L)
TCE	1,480,000	4,380
cDCE	2,920,000	38,100
Aroclor 1254	809,000,000	5,670

5. DISCUSSION

5.1. Water-Bearing Zones

During the RI, the bedrock aquifer at OU3 was divided into three hydrogeological units – or water-bearing zones – for the purpose of conceptual site model development, as well as to more easily describe the hydrogeology and distribution of contamination. These units are not based on any innate hydrogeologic features. The established units and associated depths include:

- The shallow zone, which extends from 0 to 120 ft bgs, is monitored by the uppermost port in each of the multi-level systems and by the shallow bedrock wells located on the former CDE facility property. This unit represents the conditions at or near the top of bedrock;
- The intermediate zone, which extends from 120 to 185 ft bgs, marks the transition between the shallow and deep water-bearing zones. This zone is monitored by the multi-level system ports located within the specified depth range; and
- The deep zone, which extends from 200 to 250 ft bgs, is monitored by the multi-level system ports located within the specified depth range.

The data discussion will be presented in these terms to maintain consistency with previous studies.

It should be noted that the depth intervals specified above for the intermediate and deep zones are were expanded from those established in the RI in order to incorporate information obtained from the newly-installed wells.

Water-bearing Zone	RI-Established Depth Interval (ft bgs)	Expanded Depth Interval (ft bgs)	Difference (ft)
Intermediate	120 to 160	120 to 185	+25
Deep	200 to 240	200 to 250	+10

5.2. Historic Pumping

The historic pumping of deep bedrock municipal supply wells at the Spring Lake wellfield, South Plainfield wellfield, the Tingly Lane Wellfield, and Park Avenue wellfield influenced the regional and local groundwater gradients. Pumping at South Plainfield (1952-1969) and Spring Lake (1964-2003) shifted groundwater movement at the former CDE facility in a more northerly direction toward Spring Lake. The historic pumping appears to have reversed the shallow groundwater/surface water interactions at Bound Brook. Since the Spring Lake wells stopped pumping in 2003, shallow groundwater in the immediate vicinity of the former CDE facility discharges to Bound Brook. Based on the RI investigation, the Park Avenue and Tingly Lane wellfields influence regional and local hydrogeology.

5.3. Water Elevations

The shallow hydrogeologic unit was characterized using groundwater elevations from the 12 single-screen wells and the 23 multi-level monitoring wells with ports located between 0 and 120 feet bgs (Figure 5-1A). In this unit, groundwater moves radially offsite, northwest towards the confluence of the Bound Brook and Cedar Brook and in a northeast direction towards Bound Brook. Groundwater elevations suggest that shallow groundwater is discharging to Bound Brook, Cedar Brook, and Spring Lake. North of these water-bodies, the shallow groundwater moves in a generally northward direction, with a steepening gradient. This increased gradient is attributable to the

Park Avenue Well Field located approximately 1 mile north of the study area.

The intermediate hydrogeologic unit was characterized using the groundwater elevations from 22 multi-level monitoring wells with ports instrumented between 120 and 185 feet bgs (Figure 5-1B). In this zone, groundwater movement is generally northwest near the site, transitioning to north-northwest downgradient from the site.

The deep hydrogeologic unit was characterized using groundwater elevations from 14 multi-level monitoring wells with ports between 200 and 250 feet bgs (Figure 5-1C). Groundwater movement in this zone transitions from a northwest direction near the site to a north-northwest direction downgradient from the site.

Groundwater isocontours derived from the elevations observed during the baseline program remain consistent with those described in the RI.

5.4. Contaminant Distribution

As discussed in Section 2, the data collected during the BMP establishes the baseline (ambient) groundwater conditions at OU3. LTMP data will be compared to the established baseline to evaluate whether the extent of groundwater contamination attributable to the Site is remaining stable and not expanding beyond the CEA. For consistency with and to support the conceptual site model, the results will be discussed in terms of the water-bearing units described above.

5.4.1. Shallow Groundwater

Of the 38 monitoring wells included in the baseline sampling program, 35 have sampling intervals within the shallow water-bearing zone.

Figures 5-2A (TCE) and 5-2B (cDCE) show the areal distribution of the selected VOCs detected during Round 1 of the BMP. The highest concentration of VOCs was detected near the center of former CDE facility between 17 and 60 ft bgs, with concentrations declining steeply at depths greater than 60 ft bgs. Maximum TCE and cDCE values are coincident, located at MW-14S. Adjacent wells MW-11, MW-12, and MW-03 are characterized by TCE concentrations above 10,000 ug/L and cDCE concentrations above 9,000 ug/L. These results are consistent with the former source area identified in the RI near MWs 11, 14S, and 14D, and the direction of groundwater movement in shallow bedrock facilitating advective transport toward MW-03 and Bound Brook.

Elevated VOC concentrations in wells located to the west/northwest of the former CDE facility support the RI observation that soluble contaminant mass has migrated from the former source area. Also consistent with the RI, VOC values exceeding the PRGs were detected in wells north of Bound Brook, with the highest values observed in MWs 19, 20, and 21 (Figures 5-2C and 5-2D). Though not as pronounced as those observed during the RI, the associated vertical head measurements in these wells indicate upward gradients and the potential for vertical mass transport.

MW-25, MW-26, and MW-27 are located east of Bound Brook and Cedar Brook, and represent the most distal monitoring locations. These wells are characterized by TCE concentrations above the PRG. cDCE was also detected at those locations, though at concentrations below the PRG. Existing hydrogeologic conditions in the shallow unit do not appear to support mass transport from the former CDE facility to this portion of the plume, however, vertical gradients do suggest a viable contaminant pathway from the intermediate and deep units. As modeled during the RI, historical pumping of the South Plainfield Wellfield and Tingley Lane Wellfield, in the absence on pumping of the

Spring Lake Wells, yielded a particle track distribution consistent with the low concentrations of TCE and cDCE seen to the northeast of the former CDE facility (Louis Berger and ARCADIS/MP RI 2012, Appendix P). The contaminant mass observed at MW-27 and neighboring wells MW-26 and MW-25 was likely transported to this area historically, and while the existing groundwater gradients no longer support mass transport to this area, the full thickness of the bedrock matrix is likely loaded with mass and will continue to back-diffuse contaminants into the more transmissive fractures for the foreseeable future.

5.4.2. Intermediate Groundwater

Of the 38 monitoring wells included in the baseline sampling program, 22 have sampling intervals within the intermediate water-bearing zone.

Figures 5-3A (TCE) and 5-3B (cDCE) show the areal distribution of the selected VOCs detected during Round 1 of the baseline monitoring event. The highest concentration of VOCs was detected near the northern corner of former CDE facility between 120 and 185 ft bgs, with concentrations declining steeply at depths greater than 185 ft bgs. Maximum TCE and cDCE concentrations were detected at MW-16 (2,900 ug/L and 970 ug/L, respectively).

Elevated VOC concentrations in wells located to the northwest of the former CDE facility support the RI observation that soluble contaminant mass has migrated horizontally and vertically from the former source area. Also consistent with the RI, VOC values exceeding the PRGs were detected in wells north of Bound Brook, with the highest medial plume values observed in MW-20, ERT-3, and MW-21 (Figures 5-3C and 5-3D). Though not as pronounced as those observed during the RI, the associated vertical head measurements in these wells indicate upward gradients and the potential for vertical mass transport.

The distribution of contaminants in the intermediate zone appears to be oriented more north-westerly than previously described, and the highest concentrations have moved southward toward the former CDE facility. The distribution of contaminant mass is consistent with the current hydrogeological setting.

TCE concentrations at the distal edge of the plume (MW-25) exceed the PRG (2.7 ug/L), but are 20% of those at the next upgradient well (MW-23 at 13 ug/L), and over an order of magnitude lower than levels in the medial plume (MW-20 at 590 ug/L). This suggests a trend of steady attenuation in the north/northeastern direction. cDCE concentrations show the same pattern of attenuation near the distal edge of the plume.

5.4.3. Deep Groundwater

Of the 38 monitoring wells included in the baseline sampling program, 14 have sampling intervals within the deep water-bearing zone.

Figures 5-4A (TCE) and 5-4B (cDCE) show the areal distribution of the selected VOCs detected during Round 1 of the baseline monitoring. The highest concentration of VOCs was detected near the northern corner of former CDE facility between 200 and 250 ft bgs. Maximum TCE and cDCE concentrations were detected at MW-17 (1,100 ug/L and 650 ug/L, respectively).

As was observed in the intermediate water-bearing zone, the contamination distribution is to the north, northwest of the former CDE facility. The highest medial plume concentrations during the RI were observed in MW-20, and during this event were found at MW-20 and MW-21 (Figures 5-4C and 5-4D). The distribution of contaminant mass in this portion of the plume is consistent with the direction of groundwater movement under the current

hydrogeological setting.

In the distal portion of the plume, MW-27 contains TCE above the PRG. The contaminant mass observed at MW-27 was likely transported to this area under a different hydrogeologic regime; transport was facilitated by the pumping of the Tingley Lane and South Plainfield Wellfields. The existing groundwater gradients no longer support mass transport to this area, but the full thickness of the bedrock matrix is likely loaded with mass and will continue to back-diffuse contaminants for the foreseeable future.

TCE concentrations at (MW-25) exceed the PRG (2.2 ug/L), but are 10% of those at the next upgradient well (MW-23 at 22 ug/L), and over an order of magnitude lower than levels in the medial plume (MW-20 at 340 ug/L). This suggests a trend of steady attenuation in the distal part of the plume.

5.4.4. Bedrock Groundwater Outside Established Zones

Of the 38 wells in the monitoring program, ten have sampling intervals below the representative bedrock water-bearing zones established for the RI, specifically below 250 ft bgs, the assigned bottom of the deep zone. Groundwater contaminant concentrations below this depth were not specifically discussed in the RI, but were presented in the form of cross-sections. Cross-sections were developed for the CEA using the Round 1 data, and have been included in this report.

As part of the CEA, groundwater results were shown in three cross-sections spanning the site: A-A', B-B' and C-C' (Figure 5-5A). As compared to the cross sections presented as part of the RI, cross-section A-A' has been extended to the north to include well MW-25, cross section B-B' is consistent with what was presented in the RI, and C-C' is a new cross-section established for the CEA to include information from three of the new wells installed in 2016. Each cross-section includes the following wells:

- A-A': MW-10, ERT-1, MW-14S/D, FPW, MW-16, ERT-3, MW-20, MW-23, and MW-25.
- B-B': ERT-5, MW-18, ERT-2, MW-17, FPW, and MW-13.
- C-C': MW-24, MW-19, MW-23, MW-26, and MW-27.

Of the ten with sampling intervals below 250 ft bgs, eight are included in one or more cross-sections. These include FPW, MW-19, MW-20, MW-23, MW-24, MW-25, MW-26, and MW-27.

Figure 5-5B shows the results along cross-section A-A', which runs south to north through the central portion of the site; the wells along this cross-section with sampling intervals below 250 ft bgs are located north of the former CDE facility. Concentrations of TCE in these wells generally decline to the north of the former CDE facility, and with increased depth. A maximum TCE result of 1,100 ug/L observed at MW-20 at approximately 302 ft bgs, while the minimum concentration of 1.9 ug/L was recorded at MW-25 at approximately 350 ft bgs.

Figure 5-5C shows the results along cross-section B-B', which runs west to east through the southern portion of the site. FPW is the only well on this transect with sampling intervals below 250 ft bgs. The two data points available indicate TCE concentration declines with depth.

Figure 5-5D shows the results along cross-section C-C', which runs west to east through the northern portion of the plume. All of the wells along this cross-section have sampling intervals below 250 ft bgs. TCE concentrations along this cross-section generally decline with distance from the central maximum of 200 ug/L located at MW-23. TCE concentrations also decline with depth.

5.5. Comparison of Recent and Historical Results

5.5.1. Previous Investigations

Investigation of groundwater at the CDE site began in 2000, with installation of 12 traditional screened monitoring wells on the former CDE facility property, and one round of groundwater sampling conducted in October 2000. This initial study was conducted by FWENC. The next groundwater investigation event was conducted by the USEPA in 2008. As part of this event, eight FLUTe™ wells were installed in areas to the east, southwest, west, and northwest of the former CDE facility, and one round of groundwater sampling was conducted. This sampling event included all installed wells.

In 2009, Louis Berger and ARCADIS/MP initiated the RI, which included the installation of 13 additional FLUTe™ monitoring wells and four rounds of groundwater sampling: October 2009, March 2010, December 2010, and March 2011. The RI wells were located both on and to the northwest of the former CDE facility property. The most recent sampling was performed during December 2016 and July 2017 as part of the BMP. As previously described, four new FLUTe™ wells were added to the network during the RA. These are located to the northwest, north, and northeast of the previously-installed wells.

Details of the FWENC investigation are presented in the FWENC Data Summary Evaluation Report (FWENC 2001), and those for the studies conducted in 2008, 2009, 2010, and 2011 are presented in the RI report (Louis Berger and ARCADIS/MP 2012). Each of these studies is briefly described below.

FWENC Investigation - 2000

During the FWENC investigation, samples were obtained from 12 wells (MW01A through MW-12) installed as part of the study, and from an existing well referred to as former Production Well Number 3. Two samples were obtained from this location: PD-01, which was obtained from shallow groundwater, and PDD-01, which was obtained from deep groundwater. These wells were screened between the depths of 17 and 60 ft bgs. See the FWENC Data Summary Evaluation Report (FWENC 2001) for additional detail. Concentration ranges for TCE and cDCE are presented below.

VOC	Minimum Concentration (ug/L)	Maximum Concentration (ug/L)
TCE	ND	100,000
cDCE	ND	160,000

TCE and cDCE were not detected at the southern end of the former CDE facility (MW-10; FWENC 2001).

The maximum concentrations of TCE and cDCE were observed at MW-11 and had respective values of 100,000 ug/L and 160,000 ug/L. MW-11 is located in the former source area identified in the RI (FWENC 2001, Louis Berger and ARCADIS/MP 2012).

Concentrations of TCE above 1 ug/L were observed in the each of the monitoring wells (MW-01A through MW12), and in PDD-01. cDCE levels above 70 ug/L were detected at eight locations in the northern and central portions of the former CDE facility property (MW-01A, MW-04, MW-06, MW-07, MW-08, MW-09,and MW-12; FWENC 2001).

USEPA ERT Sampling Event – 2008

The USEPA ERT sampling event included the eight new FLUTe™ wells installed as part of the program, ERT-1 through ERT-8, as well as the 12 traditional screened wells installed as part of the 2000 FWENC investigation: MW-01 through MW-12. The number of ports in the ERT wells ranged from five to eight, each of which drew groundwater from a discrete interval between 17 and 148 ft bgs. See the RI for additional detail. Concentration ranges for TCE and cDCE are presented below.

VOC	Minimum Concentration (ug/L)	Maximum Concentration (ug/L)
TCE	ND	160,000
cDCE	ND	310,000

The maximum concentrations of TCE and cDCE were observed at MW-11 and had respective values of 160,000 ug/L and 310,000 ug/L. MW-11 is located in the former source area identified in the RI (Louis Berger and ARCADIS/MP 2012).

TCE concentrations above 1 ug/L were detected in 16 wells: 10 located on the former CDE facility Property, and 6 located in the surrounding areas. TCE levels greater than 10,000 ug/L were observed in three locations in the central portion of the former CDE facility property - MW-08 (42 to 57.5 ft bgs), MW-11, and MW-12 (35 to 60 ft bgs). MW-11 is located in the former source area identified in the RI (Louis Berger and ARCADIS/MP 2012).

cDCE concentrations above 70 ug/L were detected in 10 wells: 7 located on the former CDE facility Property, and 3 located in the surrounding areas. cDCE levels greater than 1,000 ug/L were observed at locations coincident with the TCE levels greater than 10,000 ug/L (Louis Berger and ARCADIS/MP 2012).

Detections of TCE above 1 ug/L observed in the surrounding areas ranged from 1.2 ug/L at ERT-6-1 (26 to 36 ft bgs), located west of the former CDE facility in the Pitt Street Well Contamination Area, to 8,300 ug/L at ERT-2-1 (25 ft bgs to 35 ft bgs), installed across the street from the northern section of the western Site boundary.

Detections of cDCE above 70 ug/L observed in the surrounding areas ranged from 0.59 ug/L at ERT-6-1, coincident with the TCE maximum, to 690 ug/L at ERT-3-6 (138 to 148 ft bgs), located north of the facility property, between the northern corner and Spring Lake.

Detections of TCE and cDCE on the former CDE facility property are consistent with previous sampling performed for the FWENC study.

RI Investigation – 2009 Through 2011

The RI included sampling at the wells installed in 2000 and 2008, as well as the additional 13 FLUTe™ wells added to the network. As described in Section 4, the OU3 bedrock aquifer was divided into three water-bearing zones to more easily describe the data. The RI results are summarized below using this scheme.

Shallow Groundwater

The highest concentration of VOCs was detected near the center of the former CDE facility, at depths between 23 and 75 ft bgs; concentrations declined steeply at depths greater than 75 ft bgs. The highest concentrations were observed at MW-11, MW-14S, and MW-14D (Louis Berger and ARCADIS/MP 2012).

VOC concentrations in wells located in the surrounding areas suggest that shallow water-bearing zone impacts are generally limited to the area south of Bound Brook, as the surface water body acts as a boundary to shallow groundwater movement. However, elevated concentrations of VOCs were observed in ERT-4, MW-20, and MW-21, located north of Bound Brook. Vertical head distributions show upward gradients, indicating the potential for vertical mass transport (Louis Berger and ARCADIS/MP 2012).

Intermediate Groundwater

The VOC distribution suggests a more northwesterly distribution of contaminants near the former CDE facility, with a northeastward arching path of travel towards the capture zone of the currently operating Park Avenue Wellfield to the north (Louis Berger and ARCADIS/MP 2012).

Groundwater samples collected from monitoring wells ERT-5, ERT-6, and MW-18, which are located within the Pitt Street Well Contamination Area that is west of the former CDE facility, contained select VOCs at concentrations that exceed potential cleanup standards. Several lines of evidence presented in the RI suggest that the former CDE facility is not the source of select VOCs in these wells; however, the results are not conclusive. Therefore, the groundwater impacts at ERT-5, ERT-6, and MW-18 have been assessed (Louis Berger and ARCADIS/MP 2012).

Deep Groundwater

As was observed in the intermediate water-bearing zone, VOC distribution suggests a more northwesterly distribution of contaminants near the former CDE facility, with a northeastward arching path of travel towards the capture zone of the currently operating Park Avenue wellfield (Louis Berger and ARCADIS/MP 2012).

Groundwater samples collected from monitoring wells ERT-5, ERT-6, and MW-18, which are located within the Pitt Street Well Contamination Area that is west of the former CDE facility, contained select VOCs at concentrations that exceed potential cleanup standards. Several lines of evidence presented in the RI suggest that the former CDE facility is not the source of select VOCs in these wells; however, the results are not conclusive. Therefore, the groundwater impacts at ERT-5, ERT-6, and MW-18 have been assessed (Louis Berger and ARCADIS/MP 2012).

5.5.2. Current Baseline Sampling Investigation

As described above, the results from the baseline monitoring program are largely consistent with those presented in the RI. The maximum TCE and cDCE concentrations were observed in the southwest/central portion of the former CDE facility property, identified as the former source area. Concentrations generally declined with distance from the former source area and depth, with noted exceptions at MW-17, MW-20, MW-22, and MW-23.

New hydrogeologic (head) information from wells MW-24, MW-25, MW-26, and MW-27 support the assertion that the Park Avenue Wellfield exerts a controlling effect on the local hydrogeology that extends to all depths: the shallow; intermediate; and deep hydrogeologic zones. Relatively low concentrations of TCE and cDCE at the distal end of the plume suggest that the attenuation capacity of the bedrock matrix is high.

5.5.3. TCE and cDCE Concentration Trends over Time

The TCE and cDCE results from a select group of wells sampled by FWENC in 2000, USEPA 2008, Louis Berger as part of the RI (2009-10), and the baseline sampling results (2016-2017) have been plotted to begin to assess general temporal concentration trends in various parts of the plume. Wells were selected based on general location and adequate historical data density. The wells selected for preliminary analysis are as follows:

- MW-10 - Upgradient
- MW-11 – Former Source Area;
- MW-01A – Downgradient Edge of OU2 Property;
- ERT-4 – Plume (proximal);
- MW-19, MW-20, and MW-21 – Plume (medial); and
- MW-23 – Plume (distal).

The general trends appear to show decreasing concentrations at the OU2 property, both near the former source area and at the downgradient property edge (Figures 5-5A [TCE] and 5-5B [cDCE]). Upgradient concentrations are consistent with this trend (Figures 5-5A and 5-5B). Additionally, concentrations in the plume, proximal to the former CDE facility (ERT-4), also appear to have decreased between 2008 and the present (Figures 5-6A and 5-6B). The middle portion of the plume, represented by MW-19, and MW-21 show a general increase in concentrations between 2009 and present (Figures 5-7A, 5-7B, 5-8A, and 5-8B) however, concentrations at MW-20 are generally unchanged, with increased concentrations of cDCE off-setting decreased concentrations of TCE (Figures 5-9A and 5-9B) which suggests ongoing degradation of TCE. Distal plume concentrations at MW-23 are generally unchanged between 2010 and the present (Figures 5-10A and 5-10B).

5.6. Evaluation of Program Objectives

As discussed in Section 2, the objective of the baseline monitoring was to address the following questions:

1. Is the monitoring network sufficient to assess whether the extent of groundwater contamination attributable to the Site is remaining stable and not expanding beyond the CEA?
2. Are there sufficient data to make an informed evaluation of the baseline (ambient) nature and extent of contamination in groundwater?

Simply stated, the data collected between 2008 and the present indicate that there are sufficient data to make an informed evaluation of the baseline nature and extent of groundwater contamination, and that the monitoring well network is sufficient to assess groundwater contamination in relation to the CEA. Should the hydrogeologic setting change significantly, additional monitoring location(s) may be warranted.

6. RECOMMENDATIONS FOR LONG-TERM MONOITORING

Experience gained during the baseline sampling program yielded a series of recommendations based on field operations and evaluation of the results. These recommendations will be incorporated into the revised LTMP, and are summarized below.

6.1. Operational Recommendations

- Remove sampling intervals ERT-2-3 (54 to 59 ft bgs) and ERT-3-4 (110 to 120 ft bgs) from the sampling program. A slower natural recharge rate was encountered at these ports which proved impractical to sample collection. Assessment of the well network indicates that other wells located downgradient have sampling intervals in the same general range.
- Remove sampling interval ERT-8-4 from the program. Experience in the field indicates that the check valve for this port appears to be stuck in the closed position, inhibiting collection of a representative sample.
- Be aware of the potential to encounter NAPL at intervals MW-14S-1 and MW-14S-4. If more than trace amounts are present, Louis Berger recommends that a groundwater sample not be collected/submitted for VOC analysis.
- Based on the selected/assigned laboratory(ies), the use of an independent courier should be investigated to evaluate the actual cost/benefit over use of a commercial shipper like FedEx.
- The condition of each FLUTe™ well should be assessed during each sampling event and/or a minimum of once per year, whichever is more frequent. A condition assessment event should consist of the following steps:
    - Visually examine well components and sample tubing;
    - Measure the standing water level inside the FLUTe™ liner, and in each individual sampling port; and
    - Purge each individual sampling line.

  A summary of the recommended well assessment procedures will be provided to the LTRA contractor as part of the LTMP.
- The repair of a percentage of the disposable, sampling-related parts of a FLUTe™ well (*e.g.,* port caps and sampling tube end caps) should be anticipated for each sampling event. For planning and budgeting purposes, an approximate percentage will be provided to the LTRA contractor as part of the LTMP.
- The FLUTe™ well sampling ports and tubing are currently protected from dirt and other solids by manufacturer-recommended nylon bags placed over the top of the tubing and ports and cinched to the casing below the sampling ports. These bags are effective, but have a limited lifetime. The LTRA contractor might explore better ways to protect the well components from particulates, as well as from any water that may collect inside the vault. These options may include different vaults, custom seals, dive bags, or some combination of these measures.
- Louis Berger recommends the use of a manifold device, which allows for the simultaneous purging of multiple FLUTe™ well ports, and reduces the time required to sample a FLUTe™ well.
- Louis Berger recommends collecting port recovery times during each sampling event to better plan each future sampling event to mitigate the overall impact of slow recovery at certain ports on the time required to sample certain FLUTe™ wells, and to guide the selection of quality control (QC) sample locations. The

wells/ports with lower recovery times and better sample aliquot production characteristics will be identified in the LTMP.

- Louis Berger recommends that the LTMP contractor monitors older FLUTe™ wells for the following potential issues:
    - Mineral and particulate buildup within the quick-connect, which occurs when the plastic cap degrades and allows water and particles inside. This particular issue causes several problems with the manifold gas connection system, including:
    - The spring clips (the internal mechanism which locks nitrogen tubing into the port's quick-connect) stiffen and seize, which prevents the nitrogen tubing from locking into the quick-connect as designed. Manual operation of the spring clips adds extra time to sampling activities;
    - The buildup physically hinders placement of the nitrogen tubing into the quick-connect, creating the need for additional force and a side-to-side "jimmy" motion to successfully connect the tubing. This additional force and motion can cause the tubing inside of the fitting (and not supported by a ferrule end) to kink, resulting lost time due to replacement of the ferrule set.
    - The O-ring on the end of the nitrogen tubing which forms a seal with the quick-connect is degraded, resulting in the loss of nitrogen and an increased frequency of tank replacement.
- The LTMP contractor is advised to confirm the volume required for each analysis, particularly if a USEPA CLP Laboratory is being used. The CLP program generally requires more volume than a private laboratory. This will ensure that sufficient sample containers are purchased, and that adequate time is allotted for the collection of the required sample volume.
- The LTMP contractor is advised to confirm that the detection limits and quantitation limits achievable by the CLP laboratory will allow comparison to the ROD criteria prior to submittal of the analytical request form. Once the form is approved and the lab is assigned, lab methodology changes are difficult to negotiate or implement.

6.2. Program Recommendations

Based on the consistency of the chemical concentrations of TCE and cDCE measured during Rounds 1 and 2, we recommend that the monitoring frequency specified for the first two years of the LTMP be reduced from quarterly to semi-annually. It is also recommended that the semi-annual events be conducted during the spring and fall of each year, consistent with Years 3 through 5.

7. REFERENCES

Foster-Wheeler Environmental Corporation (FWENC), 2001. Data Evaluation Report for Cornell-Dubilier Electronics Superfund Site in South Plainfield, Middlesex County, New Jersey.

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United States Environmental Protection Agency (USEPA), 2007. Dioxin and Dioxin-Like Compounds: Toxic Equivalency Information; Community Right-to-Know Toxic Chemical Release Reporting, Final Rule. USEPA. July 2007.

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Tables

Table 2-1
Preliminary Remediation Goals
Cornell-Dublilier Electronics Superfund Site, OU3
South Plainfield, NJ

Chemical of Concern	CAS No.	NJDEP Remediation Standards for Groundwater (ug/L)	NJDEP PQL (ug/L)	NJDEP Modified* Remediation Standards for Groundwater (ug/L)	Federal MCLs (ug/L)	NJDEP Drinking Water MCLs (ug/L)	Preliminary Remediation Goal (ug/L)
Volatile Organic Compounds							
1,1,2-Trichloroethane	79-00-5	3	2	3	5	3	3
1,1-Dichloroethene	75-35-4	1	1	1	7	2	1
1,2,4-Trichlorobenzene	120-82-1	9	1	9	70	9	9
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.02	0.02	0.2	0.2	0.02
1,2-Dichloroethane	107-06-2	0.3	2	2	5	2	2
1,4-Dichlorobenzene	106-46-7	75	5	75	75	75	75
Benzene	71-43-2	0.2	1	1	5	1	1
Bromodichloromethane	75-27-4	0.6	1	1	80	NA	1
Chlorobenzene	108-90-7	50	1	50	100	50	50
Chloroform	67-66-3	70	1	70	80	NA	70
cis-1,2-Dichloroethene	156-59-2	70	1	70	70	70	70
Dibromochloromethane	124-48-1	0.4	1	1	80	NA	1
Methyl tert-butyl ether	1634-04-4	70	1	70	NA	70	70
Methylene chloride	75-09-2	3	1	3	5	3	3
Tetrachloroethene	127-18-4	0.4	1	1	5	1	1
trans-1,2-Dichloroethene	156-60-5	100	1	100	100	100	100
Trichloroethene	79-01-6	1	1	1	5	1	1
Vinyl chloride	75-01-4	0.08	1	1	2	2	1
Semi-Volatile Organic Compounds							
Benzo(a)anthracene	56-55-3	0.05	0.1	0.1	NA	NA	0.1
Benzo(a)pyrene	50-32-8	0.005	0.1	0.1	0.2	0.2	0.1
Benzo(b)fluoranthene	205-99-2	0.05	0.2	0.2	NA	NA	0.2
Benzo(k)fluoranthene	207-08-9	0.5	0.3	0.5	NA	NA	0.5
bis(2-Ethylhexyl)phthalate	117-81-7	2	3	3	6	6	3
Dibenzo(a,h)anthracene	53-70-3	0.005	0.3	0.3	NA	NA	0.3
Indeno(1,2,3-cd)pyrene	193-39-5	0.05	0.2	0.2	NA	NA	0.2
Polychlorinated Biphenyls and Dioxins							
Aroclor 1016***	12674-11-2	0.02	0.5	0.5	0.5	0.5	0.5
Aroclor 1248***	12672-29-6	0.02	0.5	0.5	0.5	0.5	0.5
Aroclor 1254***	11097-69-1	0.02	0.5	0.5	0.5	0.5	0.5
2,3,7,8-TCDD Toxic Equivalence	1746-01-6	0.0000002	0.00001	0.00001	0.00003	0.00003	0.00001
Pesticides							
4,4'-DDD	72-54-8	0.1	0.02	0.1	NA	NA	0.1
4,4'-DDE	72-55-9	0.1	0.01	0.1	NA	NA	0.1
4,4'-DDT	50-29-3	0.1	0.1	0.1	NA	NA	0.1
alpha-BHC	319-84-6	0.006	0.02	0.02	NA	NA	0.02

Table 2-1
Preliminary Remediation Goals
Cornell-Dublilier Electronics Superfund Site, OU3
South Plainfield, NJ

Chemical of Concern	CAS No.	NJDEP Remediation Standards for Groundwater (ug/L)	NJDEP PQL (ug/L)	NJDEP Modified* Remediation Standards for Groundwater (ug/L)	Federal MCLs (ug/L)	NJDEP Drinking Water MCLs (ug/L)	Preliminary Remediation Goal (ug/L)
beta-BHC	319-85-7	0.02	0.04	0.04	NA	NA	0.04
Dieldrin	60-57-1	0.002	0.03	0.03	NA	NA	0.03
Endosulfan II	33213-65-9	40	0.04	40	NA	NA	40
Endosulfan sulfate	1031-07-8	40	0.02	40	NA	NA	40
gamma-BHC	58-89-9	0.03	0.02	0.03	0.2	0.2	0.03
gamma-Chlordane**	5103-74-2	0.01	0.5	0.5	2	0.5	0.5
Heptachlor	76-44-8	0.008	0.05	0.05	0.4	0.4	0.05
Heptachlor epoxide	1024-57-3	0.004	0.2	0.2	0.2	0.2	0.2
Methoxychlor	72-43-5	40	0.1	40	40	40	40
Inorganics							
Aluminum	7429-90-5	200	30	200	50-200	200	50
Arsenic	7440-38-2	0.02	3	3	10	5	3
Barium	7440-39-3	6,000	200	6,000	2,000	2,000	2,000
Cadmium	7440-43-9	4	0.5	4	5	5	4
Chromium	7440-47-3	70	1	70	100	100	70
Iron	7439-89-6	300	20	300	300	300	300
Lead	7439-92-1	5	5	5	15	NA	5
Manganese	7439-96-5	50	0.4	50	50	50	50

*'Modified' is defined as the higher of the Remediation Standard for Groundwater and PQL

**Standards for gamma-Chlordane come from "Total" Chlordane standard that includes alpha- and gamma-Chlordane

***Aroclor standards are for "PCBs (Polychlorinated biphenyls)" which include all PCB Aroclors

Table 3-1
2016 Multilevel Monitoring Systems - Well Consturction Details
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port (#)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Top of Monitoring Interval (ft bgs)	Bottom of Monitoring Interval (ft bgs)	Top of Monitoring Interval (ft msl)	Bottom of Monitoring Interval (ft msl)	Centre of Port Elevation (ft msl)	Top of Port Fitting (ft topf)
MW-24	1	66.57	67.10	67.08	85.00	95.00	-17.9	-27.9	-22.9	66.67
MW-24	2	66.57	67.10	67.08	135.00	145.00	-67.9	-77.9	-72.9	66.61
MW-24	3	66.57	67.10	67.08	240.00	250.00	-172.9	-182.9	-177.9	66.65
MW-24	4	66.57	67.10	67.08	332.00	342.00	-264.9	-274.9	-269.9	66.67
MW-24	5	66.57	67.10	67.08	370.00	380.00	-302.9	-312.9	-307.9	66.64
MW-24	6	66.57	67.10	67.08	455.00	465.00	-387.9	-397.9	-392.9	66.65
MW-25	1	68.22	68.92	66.58	87.34	97.34	-18.42	-28.42	-23.42	68.37
MW-25	2	68.22	68.92	66.58	177.34	187.34	-108.42	-118.42	-113.42	68.36
MW-25	3	68.22	68.92	66.58	202.34	212.34	-133.42	-143.42	-138.42	68.37
MW-25	4	68.22	68.92	66.58	277.34	287.34	-208.42	-218.42	-213.42	68.37
MW-25	5	68.22	68.92	66.58	347.34	357.34	-278.42	-288.42	-283.42	68.37
MW-25	6	68.22	68.92	66.58	437.34	447.34	-368.42	-378.42	-373.42	68.37
MW-26	1	68.43	69.20	69.18	95.00	105.00	-25.8	-35.8	-30.8	68.57
MW-26	2	68.43	69.20	69.18	175.00	185.00	-105.8	-115.8	-110.8	68.62
MW-26	3	68.43	69.20	69.18	255.00	265.00	-185.8	-195.8	-190.8	68.57
MW-26	4	68.43	69.20	69.18	305.00	320.00	-235.8	-250.8	-243.3	68.57
MW-26	5	68.43	69.20	69.18	385.00	395.00	-315.8	-325.8	-320.8	68.53
MW-26	6	68.43	69.20	69.18	455.00	465.00	-385.8	-395.8	-390.8	68.53
MW-27	1	68.23	69.04	69.03	85.00	95.00	-15.96	-25.96	-20.96	68.28
MW-27	2	68.23	69.04	69.03	180.00	190.00	-110.96	-120.96	-115.96	68.26
MW-27	3	68.23	69.04	69.03	225.00	235.00	-155.96	-165.96	-160.96	68.28
MW-27	4	68.23	69.04	69.03	370.00	380.00	-300.96	-310.96	-305.96	68.24
MW-27	5	68.23	69.04	69.03	460.00	470.00	-390.96	-400.96	-395.96	68.29

Table 3-2
Well Survey Information
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Northing (feet)	Easting (feet)	Latitude (dd.mmss.sss)	Longitude (dd.mmss.sss)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Source
Single Screen Wells								
MW-01A	635224.6600	516294.7600	40°34'38.336''	-74°24'46.742''	70.37	70.70	71.42	3
MW-02A	635148.4600	516638.1800	40°34'37.208''	-74°24'42.292''	70.86	71.33	71.33	3
MW-03	634873.5200	516823.1200	40°34'34.861''	-74°24'39.898''	70.70	71.10	71.10	3
MW-04	634674.7200	516849.4400	40°34'32.896''	-74°24'39.560''	72.10	72.63	72.63	3
MW-05	634421.0400	517062.4900	40°34'30.387''	-74°24'36.802''	71.28	71.67	71.67	3
MW-06	634742.6000	516541.4300	40°34'33.570''	-74°24'43.551''	74.57	75.00	75.00	3
MW-07	634767.8700	516091.8400	40°34'33.824''	-74°24'49.377''	80.86	81.16	81.16	3
MW-08	634393.4700	516377.2700	40°34'30.121''	-74°24'45.683''	77.47	77.72	77.72	3
MW-09	634398.2900	516870.6200	40°34'30.164''	-74°24'39.289''	75.66	76.66	70.94	3
MW-10	634099.5100	516752.2900	40°34'27.212''	-74°24'40.826''	73.88	74.40	74.40	3
MW-11	634516.2800	516575.3700	40°34'31.333''	-74°24'43.114''	75.29	75.83	75.83	3
MW-12	634622.7700	516411.2800	40°34'32.387''	-74°24'45.239''	76.90	77.32	77.32	3
Multilevel Monitoring Wells								
MW-13	635179.8518	517074.6450	40°34'37.885''	-74°24'36.634''	66.49	67.23	67.23	2
MW-14S	634528.0300	516596.4700	40°34'31.449''	-74°24'42.840''	75.01	75.71	75.72	3
MW-14D	634522.3100	516591.6400	40°34'31.392''	-74°24'42.903''	75.09	75.74	75.71	3
MW-15S	634356.4800	516413.7700	40°34'29.755''	-74°24'45.210''	77.39	77.92	77.94	3
MW-15D	634367.8600	516419.1500	40°34'29.868''	-74°24'45.141''	77.31	77.93	77.95	3
MW-16	635231.9900	516283.0700	40°343'38.409''	-74°24'46.893''	69.83	71.28	71.32	3
MW-17	634981.5306	515908.3658	40°34'35.937''	-74°24'51.753''	80.14	81.03	81.03	2
MW-18	634620.1507	514526.6150	40°34'32.379''	-74°25'09.665''	67.38	68.24	68.24	2
MW-19	638511.3321	515674.6020	40°35'10.822''	-74°24'54.738''	63.78	64.53	64.53	2
MW-20	637131.6959	516081.8303	40°34'57.184''	-74°24'49.477''	65.42	66.22	66.22	2
MW-21	637069.0767	514929.2610	40°34'56.576''	-74°25'04.417''	58.50	59.17	59.17	2
MW-22	636938.9088	517636.1305	40°34'55.263''	-74°24'29.333''	68.52	69.28	69.28	2
MW-23	639092.8800	516922.1200	40°35'16.556"	-74°24'38.559"	69.68	70.43	70.43	2
MW-24	638899.6800	515169.2300	40°35'14.664"	-74°25'01.284"	66.57	67.10	67.08	3
MW-25	640432.2100	517624.2600	40°35'29.414"	-74°24'30.896"	68.22	68.92	66.58	3
MW-26	639446.3700	519059.0700	40°35'20.028"	-74°24'10.854"	68.43	69.20	69.18	3
MW-27	638775.9100	518893.2500	40°35'13.404"	-74°24'13.013"	68.23	69.04	69.03	3
FPW	634997.5100	516663.6600	40°34'32.087"	-73°59'08.316"	71.61	72.76	72.76	3
ERT-1	634259.3200	517003.7300	40°34'28.789"	-74°24'37.566"	69.84	70.35	70.35	3
ERT-2	634986.3999	515901.5944	40°34'35.985"	-74°24'51.840"	80.36	80.99	80.99	2
ERT-3	636202.8632	516074.6005	40°34'48.005"	-74°24'49.583"	68.69	69.10	65.84	2
ERT-4	636126.6008	515361.9824	40°34'47.258"	-74°24'58.820"	61.77	62.43	59.21	2
ERT-5	634530.1600	514490.1500	40°34'31.490"	-74°25'10.139"	69.03	69.72	69.72	2
ERT-6	635220.2228	514656.7197	40°34'38.308"	-74°25'07.972"	67.52	68.04	65.49	2
ERT-7	634330.2800	515878.0300	40°34'29.501"	-74°24'52.154"	80.19	81.00	81.00	2
ERT-8	633661.7400	515730.9300	40°34'22.896"	-74°24'54.069"	82.74	83.36	83.36	2

1 - For multilevel monitoring systems, the PVC elevation corresponds to the top of the PVC riser.
2 - Final Remedial Investigation Report (2009)
3 - Survey
Horizontal Datum: NJ State Plane NAD83 feet.

Table 3-3a
Analytical Summary – Round 1
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port	Well/Port ID	Low TCL VOC	Trace TCL VOC	TCL SVOC	TCL PCB Aroclors	TCL Pesticides	TAL Metals, including Mercury	PCB Congeners	Dioxins and Furans	Note
Shallow Bedrock Monitoring Wells											
MW-01A	NA	MW-01A	x		x	x	x	x	x	x	
MW-02A	NA	MW-02A	x		x	x	x	x			
MW-03	NA	MW-03	x		x	x	x	x			
MW-04	NA	MW-04	x		x	x	x	x			
MW-05	NA	MW-05	x		x	x	x	x			
MW-06	NA	MW-06									Groundwater sample not collected; bend in well prevented access to water table
MW-07	NA	MW-07	x		x	x	x	x			
MW-08	NA	MW-08	x		x	x	x	x			
MW-09	NA	MW-09	x		x	x	x	x			
MW-10	NA	MW-10	x		x	x	x	x			
MW-11	NA	MW-11	x		x	x	x	x	x	x	
MW-12	NA	MW-12	x		x	x	x	x	x	x	
Deep Bedrock Multi-Port Monitoring Wells											
MW-13	1	MW-13-1	x		x	x	x	x			
	2	MW-13-2	x		x	x	x	x			
	3	MW-13-3	x		x	x	x	x			
	4	MW-13-4	x		x	x	x	x			
	5	MW-13-5	x		x	x	x	x			
	6	MW-13-6	x		x	x	x	x			
	7	MW-13-7	x		x	x	x	x			
MW-14S	1	MW-14S-1									Groundwater sample not collected due to the presence of product.
	2	MW-14S-2	x		x	x	x	x	x	x	
	3	MW-14S-3	x		x	x	x	x	x	x	
	4	MW-14S-4									Groundwater sample not collected due to the presence of product; approximately 1/3 cup of NAPL collected.
MW-14D	1	MW-14D-1	x		x	x	x	x	x	x	
	2	MW-14D-2	x		x	x	x	x	x	x	
	3	MW-14D-3	x		x	x	x	x	x	x	
MW-15S	1	MW-15S-1	x		x	x	x	x			
	2	MW-15S-2	x		x	x	x	x			
MW-15D	1	MW-15D-1	x		x	x	x	x			
	2	MW-15D-2	x		x	x	x	x			
ERT-1	1	ERT-1-1	x		x	x	x	x			
	2	ERT-1-2	x		x	x	x	x			
	3	ERT-1-3	x		x	x	x	x			
	4	ERT-1-4	x		x	x	x	x			
	5	ERT-1-5	x		x	x	x	x			
	6	ERT-1-6	x		x	x	x	x			
	7	ERT-1-7	x		x	x	x	x			
	8	ERT-1-8	x		x	x	x	x			
ERT-2	1	ERT-2-1	x		x	x	x	x			
	2	ERT-2-2	x		x	x	x	x			
	3	ERT-2-3									Groundwater sample not collected due to slow recharge.
	4	ERT-2-4	x		x	x	x	x			
	5	ERT-2-5	x		x	x	x	x			
	6	ERT-2-6	x		x	x	x	x			
	7	ERT-2-7	x		x	x	x	x			
ERT-3	1	ERT-3-1	x		x	x	x	x			
	2	ERT-3-2	x		x	x	x	x			
	3	ERT-3-3	x		x	x	x	x			
	4	ERT-3-4									Groundwater sample not collected due to slow recharge.
	5	ERT-3-5	x		x	x	x	x			
	6	ERT-3-6	x		x	x	x	x			

Table 3-3a
Analytical Summary – Round 1
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port	Well/Port ID	Low TCL VOC	Trace TCL VOC	TCL SVOC	TCL PCB Aroclors	TCL Pesticides	TAL Metals, including Mercury	PCB Congeners	Dioxins and Furans	Note
ERT-4	1	ERT-4-1	x		x	x	x	x			
	2	ERT-4-2	x		x	x	x	x			
	3	ERT-4-3	x		x	x	x	x			
	4	ERT-4-4	x		x	x	x	x	x	x	
	5	ERT-4-5	x		x	x	x	x			
	6	ERT-4-6	x		x	x	x	x			
	7	ERT-4-7	x		x	x	x	x			
ERT-5	1	ERT-5-1	x		x	x	x	x			
	2	ERT-5-2	x		x	x	x	x			
	3	ERT-5-3	x		x	x	x	x			
	4	ERT-5-4	x		x	x	x	x			
	5	ERT-5-5	x		x	x	x	x			
	6	ERT-5-6	x		x	x	x	x			
ERT-6	1	ERT-6-1	x		x	x	x	x			
	2	ERT-6-2	x		x	x	x	x			
	3	ERT-6-3	x		x	x	x	x			
	4	ERT-6-4	x		x	x	x	x			
	5	ERT-6-5	x		x	x	x	x			
ERT-7	1	ERT-7-1	x		x	x	x	x			
	2	ERT-7-2	x		x	x	x	x			
	3	ERT-7-3	x		x	x	x	x			
	4	ERT-7-4	x		x	x	x	x			
	5	ERT-7-5	x		x	x	x	x			
ERT-8	1	ERT-8-1		x	x	x	x	x			
	2	ERT-8-2		x	x	x	x	x			
	3	ERT-8-3		x	x	x	x	x			
	4	ERT-8-4									Groundwater sample not collected due to slow recharge.
	5	ERT-8-5		x	x	x	x	x			
	6	ERT-8-6		x	x	x	x	x			
	7	ERT-8-7		x	x	x	x	x			
MW-16	1	MW-16-1	x		x	x	x	x			
	2	MW-16-2	x		x	x	x	x			
	3	MW-16-3	x		x	x	x	x			
	4	MW-16-4	x		x	x	x	x			
	5	MW-16-5	x		x	x	x	x			
	6	MW-16-6	x		x	x	x	x			
	7	MW-16-7	x		x	x	x	x	x	x	
MW-17	1	MW-17-1	x		x	x	x	x			
	2	MW-17-2	x		x	x	x	x			
	3	MW-17-3	x		x	x	x	x			
MW-18	1	MW-18-1	x		x	x	x	x			
	2	MW-18-2	x		x	x	x	x			
MW-19	1	MW-19-1		x	x	x	x	x			
	2	MW-19-2		x	x	x	x	x			
	3	MW-19-3		x	x	x	x	x			
	4	MW-19-4		x	x	x	x	x			
	5	MW-19-5		x	x	x	x	x			
	6	MW-19-6		x	x	x	x	x			
	7	MW-19-7		x	x	x	x	x			
MW-20	1	MW-20-1	x		x	x	x	x			
	2	MW-20-2	x		x	x	x	x			
	3	MW-20-3	x		x	x	x	x			
	4	MW-20-4	x		x	x	x	x			
	5	MW-20-5	x		x	x	x	x			
	6	MW-20-6	x		x	x	x	x			
	7	MW-20-7	x		x	x	x	x			
	8	MW-20-8	x		x	x	x	x			

Table 3-3a
Analytical Summary – Round 1
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port	Well/Port ID	Low TCL VOC	Trace TCL VOC	TCL SVOC	TCL PCB Aroclors	TCL Pesticides	TAL Metals, including Mercury	PCB Congeners	Dioxins and Furans	Note
MW-21	1	MW-21-1		x	x	x	x	x			
	2	MW-21-2		x	x	x	x	x			
	3	MW-21-3		x	x	x	x	x			
	4	MW-21-4		x	x	x	x	x			
	5	MW-21-5		x	x	x	x	x			
	6	MW-21-6		x	x	x	x	x			
	7	MW-21-7		x	x	x	x	x			
	8	MW-21-8		x	x	x	x	x			
MW-22	1	MW-22-1	x		x	x	x	x			
	2	MW-22-2	x		x	x	x	x			
	3	MW-22-3	x		x	x	x	x			
	4	MW-22-4	x		x	x	x	x			
MW-23	1	MW-23-1		x	x	x	x	x			
	2	MW-23-2		x	x	x	x	x			
	3	MW-23-3		x	x	x	x	x			
	4	MW-23-4		x	x	x	x	x			
	5	MW-23-5		x	x	x	x	x			
	6	MW-23-6		x	x	x	x	x			
	7	MW-23-7		x	x	x	x	x			
	8	MW-23-8		x	x	x	x	x			
	9	MW-23-9		x	x	x	x	x			
FPW	1	FPW-1	x		x	x	x	x			
	2	FPW-2	x		x	x	x	x			
	3	FPW-3	x		x	x	x	x			
	4	FPW-4	x		x	x	x	x			
	5	FPW-5	x		x	x	x	x			
	6	FPW-6	x		x	x	x	x			
	7	FPW-7	x		x	x	x	x			
	8	FPW-8	x		x	x	x	x			
	9	FPW-9	x		x	x	x	x			
MW-24	1	MW-24 -1		x	x	x	x	x			
	2	MW-24 -2		x	x	x	x	x			
	3	MW-24 -3		x	x	x	x	x			
	4	MW-24 -4		x	x	x	x	x			
	5	MW-24 -5		x	x	x	x	x			
	6	MW-24 -6		x	x	x	x	x			
MW-25	1	MW-25 -1		x	x	x	x	x			
	2	MW-25 -2		x	x	x	x	x			
	3	MW-25 -3		x	x	x	x	x			
	4	MW-25 -4		x	x	x	x	x			
	5	MW-25 -5		x	x	x	x	x			
	6	MW-25 -6		x	x	x	x	x			
MW-26	1	MW-26-1		x	x	x	x	x			
	2	MW-26-2		x	x	x	x	x			
	3	MW-26-3		x	x	x	x	x			
	4	MW-26-4		x	x	x	x	x			
	5	MW-26-5		x	x	x	x	x			
	6	MW-26-6		x	x	x	x	x			
MW-27	1	MW-27-1		x	x	x	x	x			
	2	MW-27-2		x	x	x	x	x			
	3	MW-27-3		x	x	x	x	x			
	4	MW-27-4		x	x	x	x	x			
	5	MW-27-5		x	x	x	x	x			
			102	53	155	155	155	155	10	10	Total Field Groundwater Samples
			10	5	8	8	8	8	1	1	Total Field Duplicate Groundwater Samples
			112	**58**	**163**	**163**	**163**	**163**	**11**	**11**	**TOTAL SAMPLES SUBMITTED FOR ANALYSIS**

Table 3-3b
Analytical Summary – Round 2
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port	Well/Port ID	Low TCL VOC	Trace TCL VOC	TCL SVOC	TCL PCB Aroclors	TCL Pesticides	TAL Metals, including Mercury	PCB Congeners	Dioxins and Furans	Note
Shallow Bedrock Monitoring Wells											
MW-01A	NA	MW-01A	x		x	x	x	x	x	x	
MW-02A	NA	MW-02A	x		x	x	x	x			
MW-03	NA	MW-03	x		x	x	x	x			
MW-04	NA	MW-04	x		x	x	x	x			
MW-05	NA	MW-05	x		x	x	x	x			
MW-06	NA	MW-06	x		x	x	x	x			
MW-07	NA	MW-07	x		x	x	x	x			
MW-08	NA	MW-08	x		x	x	x	x			
MW-09	NA	MW-09	x		x	x	x	x			
MW-10	NA	MW-10	x		x	x	x	x			
MW-11	NA	MW-11	x		x	x	x	x	x	x	
MW-12	NA	MW-12	x		x	x	x	x	x	x	
Deep Bedrock Multi-Port Monitoring Wells											
ERT-1	1	ERT-1-1	x		x	x	x	x			
	2	ERT-1-2	x		x	x	x	x			
	3	ERT-1-3	x		x	x	x	x			
	4	ERT-1-4	x		x	x	x	x			
	5	ERT-1-5	x		x	x	x	x			
	6	ERT-1-6	x		x	x	x	x			
	7	ERT-1-7	x		x	x	x	x			
	8	ERT-1-8	x		x	x	x	x			
ERT-2	1	ERT-2-1	x		x	x	x	x			
	2	ERT-2-2	x		x	x	x	x			
	3	ERT-2-3									Port not sampled due to slow recharge.
	4	ERT-2-4	x		x	x	x	x			
	5	ERT-2-5	x		x	x	x	x			
	6	ERT-2-6	x		x	x	x	x			
	7	ERT-2-7	x		x	x	x	x			
ERT-3	1	ERT-3-1	x		x	x	x	x			
	2	ERT-3-2	x		x	x	x	x			
	3	ERT-3-3	x		x	x	x	x			
	4	ERT-3-4									Port not sampled due to slow recharge.
	5	ERT-3-5	x		x	x	x	x			
	6	ERT-3-6	x		x	x	x	x			
ERT-4	1	ERT-4-1	x		x	x	x	x			
	2	ERT-4-2	x		x	x	x	x			
	3	ERT-4-3	x		x	x	x	x			
	4	ERT-4-4	x		x	x	x	x	x	x	
	5	ERT-4-5	x		x	x	x	x			
	6	ERT-4-6	x		x	x	x	x			
	7	ERT-4-7	x		x	x	x	x			
ERT-5	1	ERT-5-1	x		x	x	x	x			
	2	ERT-5-2	x		x	x	x	x			
	3	ERT-5-3	x		x	x	x	x			
	4	ERT-5-4	x		x	x	x	x			
	5	ERT-5-5	x		x	x	x	x			
	6	ERT-5-6	x		x	x	x	x			
ERT-6	1	ERT-6-1	x		x	x	x	x			
	2	ERT-6-2	x		x	x	x	x			
	3	ERT-6-3	x		x	x	x	x			
	4	ERT-6-4	x		x	x	x	x			
	5	ERT-6-5	x		x	x	x	x			
ERT-7	1	ERT-7-1	x		x	x	x	x			
	2	ERT-7-2	x		x	x	x	x			
	3	ERT-7-3	x		x	x	x	x			
	4	ERT-7-4	x		x	x	x	x			
	5	ERT-7-5	x		x	x	x	x			

Table 3-3b
Analytical Summary – Round 2
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port	Well/Port ID	Low TCL VOC	Trace TCL VOC	TCL SVOC	TCL PCB Aroclors	TCL Pesticides	TAL Metals, including Mercury	PCB Congeners	Dioxins and Furans	Note
ERT-8	1	ERT-8-1		x	x	x	x	x			
	2	ERT-8-2		x	x	x	x	x			
	3	ERT-8-3		x	x	x	x	x			
	4	ERT-8-4									Port not sampled due to slow recharge.
	5	ERT-8-5		x	x	x	x	x			
	6	ERT-8-6		x	x	x	x	x			
	7	ERT-8-7		x	x	x	x	x			
MW-13	1	MW-13-1	x		x	x	x	x			
	2	MW-13-2	x		x	x	x	x			
	3	MW-13-3	x		x	x	x	x			
	4	MW-13-4	x		x	x	x	x			
	5	MW-13-5	x		x	x	x	x			
	6	MW-13-6	x		x	x	x	x			
	7	MW-13-7	x		x	x	x	x			
MW-14S	1	MW-14S-1	x		x	x	x	x	x	x	
	2	MW-14S-2	x		x	x	x	x	x	x	
	3	MW-14S-3	x		x	x	x	x	x	x	
	4	MW-14S-4									Groundwater sample not collected due to NAPL. Product sample taken.
MW-14D	1	MW-14D-1	x		x	x	x	x	x	x	
	2	MW-14D-2	x		x	x	x	x	x	x	
	3	MW-14D-3	x		x	x	x	x	x	x	
MW-15S	1	MW-15S-1	x		x	x	x	x			
	2	MW-15S-2	x		x	x	x	x			
MW-15D	1	MW-15D-1	x		x	x	x	x			
	2	MW-15D-2	x		x	x	x	x			
MW-16	1	MW-16-1	x		x	x	x	x			
	2	MW-16-2	x		x	x	x	x			
	3	MW-16-3	x		x	x	x	x			
	4	MW-16-4	x		x	x	x	x			
	5	MW-16-5	x		x	x	x	x			
	6	MW-16-6	x		x	x	x	x			
	7	MW-16-7	x		x	x	x	x	x	x	
MW-17	1	MW-17-1	x		x	x	x	x			
	2	MW-17-2	x		x	x	x	x			
	3	MW-17-3	x		x	x	x	x			
MW-18	1	MW-18-1	x		x	x	x	x			
	2	MW-18-2	x		x	x	x	x			
MW-19	1	MW-19-1		x	x	x	x	x			
	2	MW-19-2		x	x	x	x	x			
	3	MW-19-3		x	x	x	x	x			
	4	MW-19-4		x	x	x	x	x			
	5	MW-19-5		x	x	x	x	x			
	6	MW-19-6		x	x	x	x	x			
	7	MW-19-7		x	x	x	x	x			
MW-20	1	MW-20-1	x		x	x	x	x			
	2	MW-20-2	x		x	x	x	x			
	3	MW-20-3	x		x	x	x	x			
	4	MW-20-4	x		x	x	x	x			
	5	MW-20-5	x		x	x	x	x			
	6	MW-20-6	x		x	x	x	x			
	7	MW-20-7	x		x	x	x	x			
	8	MW-20-8	x		x	x	x	x			
MW-21	1	MW-21-1		x	x	x	x	x			
	2	MW-21-2		x	x	x	x	x			
	3	MW-21-3		x	x	x	x	x			
	4	MW-21-4		x	x	x	x	x			
	5	MW-21-5		x	x	x	x	x			
	6	MW-21-6		x	x	x	x	x			
	7	MW-21-7		x	x	x	x	x			
	8	MW-21-8		x	x	x	x	x			

Table 3-3b
Analytical Summary – Round 2
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Well ID	Port	Well/Port ID	Low TCL VOC	Trace TCL VOC	TCL SVOC	TCL PCB Aroclors	TCL Pesticides	TAL Metals, including Mercury	PCB Congeners	Dioxins and Furans	Note
MW-22	1	MW-22-1	x		x	x	x	x			
	2	MW-22-2	x		x	x	x	x			
	3	MW-22-3	x		x	x	x	x			
	4	MW-22-4	x		x	x	x	x			
MW-23	1	MW-23-1		x	x	x	x	x			
	2	MW-23-2		x	x	x	x	x			
	3	MW-23-3		x	x	x	x	x			
	4	MW-23-4		x	x	x	x	x			
	5	MW-23-5		x	x	x	x	x			
	6	MW-23-6		x	x	x	x	x			
	7	MW-23-7		x	x	x	x	x			
	8	MW-23-8		x	x	x	x	x			
	9	MW-23-9		x	x	x	x	x			
FPW	1	FPW-1	x		x	x	x	x			
	2	FPW-2	x		x	x	x	x			
	3	FPW-3	x		x	x	x	x			
	4	FPW-4	x		x	x	x	x			
	5	FPW-5	x		x	x	x	x			
	6	FPW-6	x		x	x	x	x			
	7	FPW-7	x		x	x	x	x			
	8	FPW-8	x		x	x	x	x			
	9	FPW-9	x		x	x	x	x			
MW-24	1	MW-24 -1		x	x	x	x	x			
	2	MW-24 -2		x	x	x	x	x			
	3	MW-24 -3		x	x	x	x	x			
	4	MW-24 -4		x	x	x	x	x			
	5	MW-24 -5		x	x	x	x	x			
	6	MW-24 -6		x	x	x	x	x			
MW-25	1	MW-25 -1		x	x	x	x	x			
	2	MW-25 -2		x	x	x	x	x			
	3	MW-25 -3		x	x	x	x	x			
	4	MW-25 -4		x	x	x	x	x			
	5	MW-25 -5		x	x	x	x	x			
	6	MW-25 -6		x	x	x	x	x			
MW-26	1	MW-26-1		x	x	x	x	x			
	2	MW-26-2		x	x	x	x	x			
	3	MW-26-3		x	x	x	x	x			
	4	MW-26-4		x	x	x	x	x			
	5	MW-26-5		x	x	x	x	x			
	6	MW-26-6		x	x	x	x	x			
MW-27	1	MW-27-1		x	x	x	x	x			
	2	MW-27-2		x	x	x	x	x			
	3	MW-27-3		x	x	x	x	x			
	4	MW-27-4		x	x	x	x	x			
	5	MW-27-5		x	x	x	x	x			
			104	53	157	157	157	157	11	11	Field Groundwater Samples
			10	5	8	8	8	8	1	1	Field Duplicate Groundwater Samples
			10	5	8	8	8	8			Lab QC Samples
			125	**64**	**173**	**173**	**173**	**173**	**12**	**12**	**TOTAL SAMPLES SUBMITTED FOR ANALYSIS**

TABLE 4-1
Baseline Sampling Rounds 1 and 2
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Well ID	Port (#)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Centre of Port Elevation (ft msl)	Top of Port Fitting (ft btopf)	Round 1 12/23/2016		Round 2 7/10/2017	
							Depth to Water (ft bgs)	Water Level Elevation (ft msl)	Depth to Water (ft bgs)	Water Level Elevation (ft msl)
Single Screen Monitoring Wells										
MW-01A	n/a	70.37	70.70	71.42	34.20	n/a	10.35	60.35	9.81	60.89
MW-02A	n/a	70.86	71.33	71.33	34.94	n/a	11.11	60.22	10.03	61.30
MW-03	n/a	70.70	71.10	71.10	46.61	n/a	10.83	60.27	9.74	61.36
MW-04	n/a	72.10	72.63	72.63	33.59	n/a	11.24	61.39	11.69	60.94
MW-05	n/a	71.28	71.67	71.67	35.59	n/a	11.10	60.57	10.82	60.85
MW-06	n/a	74.57	75.00	75.00	37.93	n/a	14.59	60.41	12.87	62.13
MW-07	n/a	80.86	81.16	81.16	30.78	n/a	20.37	60.79	20.07	61.09
MW-08	n/a	77.47	77.72	77.72	25.48	n/a	16.68	61.04	15.75	61.97
MW-09	n/a	75.66	76.66	70.94	33.59	n/a	15.94	60.72	16.25	60.41
MW-10	n/a	73.88	74.40	74.40	28.44	n/a	13.14	61.26	12.74	61.66
MW-11	n/a	75.29	75.83	75.83	28.59	n/a	14.83	61.00	14.89	60.94
MW-12	n/a	76.90	77.32	77.32	28.40	n/a	16.05	61.27	14.72	62.60
Multilevel Monitoring Wells										
MW-13	1	66.49	67.23	67.23	44.23	66.83	6.19	61.05	5.77	55.97
MW-13	2	66.49	67.23	67.23	27.23	66.81	6.35	60.88	5.67	55.68
MW-13	3	66.49	67.23	67.23	-0.77	66.83	5.78	61.45	5.66	55.97
MW-13	4	66.49	67.23	67.23	-32.77	66.86	6.19	61.04	5.65	56.38
MW-13	5	66.49	67.23	67.23	-52.77	66.89	6.35	60.88	5.67	55.95
MW-13	6	66.49	67.23	67.23	-87.77	66.89	6.25	60.98	5.33	55.95
MW-13	7	66.49	67.23	67.23	-167.77	66.82	6.46	60.77	6.16	60.87
MW-14S	1	75.01	75.71	75.72	42.58	75.41	14.88	60.83	13.81	69.44
MW-14S	2	75.01	75.71	75.72	31.58	75.39	14.97	60.74	14.64	69.51
MW-14S	3	75.01	75.71	75.72	17.58	75.37	14.96	60.75	13.99	61.72
MW-14S	4	75.01	75.71	75.72	7.58	75.45	14.93	60.78	14.21	61.50
MW-14D	1	75.09	75.74	75.71	-7.21	75.45	17.00	58.74	0.71	75.03
MW-14D	2	75.09	75.74	75.71	-52.71	75.47	14.86	60.88	NR	NR
MW-14D	3	75.09	75.74	75.71	-128.71	75.46	14.99	60.75	NR	NR
MW-15S	1	77.39	77.92	77.94	40.42	77.72	17.14	60.78	15.49	62.43
MW-15S	2	77.39	77.92	77.94	0.42	77.74	17.88	60.04	15.70	62.22
MW-15D	1	77.31	77.93	77.95	-54.74	77.49	17.82	60.11	16.47	61.46
MW-15D	2	77.31	77.93	77.95	-114.74	77.49	17.69	60.24	16.09	61.84
MW-16	1	69.83	71.28	71.32	45.73	70.06	11.24	60.04	9.80	61.48
MW-16	2	69.83	71.28	71.32	25.73	70.10	11.17	60.11	10.25	61.03
MW-16	3	69.83	71.28	71.32	-19.27	70.06	11.04	60.24	10.13	61.15
MW-16	4	69.83	71.28	71.32	-42.27	70.03	10.97	60.31	10.11	61.17
MW-16	5	69.83	71.28	71.32	-69.27	70.06	10.84	60.44	10.01	61.27
MW-16	6	69.83	71.28	71.32	-104.27	70.03	10.77	60.51	9.94	61.34
MW-16	7	69.83	71.28	71.32	-129.27	70.03	10.63	60.65	9.57	61.71

TABLE 4-1
Baseline Sampling Rounds 1 and 2
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Well ID	Port (#)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Centre of Port Elevation (ft msl)	Top of Port Fitting (ft btopf)	Round 1 12/23/2016		Round 2 7/10/2017	
							Depth to Water (ft bgs)	Water Level Elevation (ft msl)	Depth to Water (ft bgs)	Water Level Elevation (ft msl)
MW-17	1	80.14	81.03	81.03	-93.97	80.46	20.54	60.49	19.67	61.36
MW-17	2	80.14	81.03	81.03	-128.97	80.44	20.58	60.45	19.41	61.62
MW-17	3	80.14	81.03	81.03	-158.97	80.57	20.35	60.68	19.29	61.74
MW-18	1	67.38	68.24	68.24	-96.76	67.69	8.99	59.25	7.80	60.44
MW-18	2	67.38	68.24	68.24	-146.76	67.85	9.17	59.07	7.93	60.31
MW-19	1	63.78	64.53	64.53	-5.47	63.97	13.45	51.08	12.54	51.99
MW-19	2	63.78	64.53	64.53	-72.47	63.97	12.54	51.99	11.76	52.77
MW-19	3	63.78	64.53	64.53	-140.47	63.93	11.28	53.25	10.45	54.08
MW-19	4	63.78	64.53	64.53	-197.47	63.95	10.91	53.62	10.10	54.43
MW-19	5	63.78	64.53	64.53	-307.47	63.98	10.77	53.76	10.00	54.53
MW-19	6	63.78	64.53	64.53	-420.47	63.99	8.94	55.59	8.19	56.34
MW-19	7	63.78	64.53	64.53	-485.47	63.95	7.65	56.88	5.88	58.65
MW-20	1	65.42	66.22	66.22	36.22	65.57	6.74	59.48	10.53	55.69
MW-20	2	65.42	66.22	66.22	-23.78	65.60	11.67	54.56	10.44	55.79
MW-20	3	65.42	66.22	66.22	-63.78	65.66	10.83	55.39	9.81	56.41
MW-20	4	65.42	66.22	66.22	-113.78	65.65	10.99	55.23	9.96	56.26
MW-20	5	65.42	66.22	66.22	-143.78	65.71	10.85	55.37	9.62	56.60
MW-20	6	65.42	66.22	66.22	-188.78	65.71	8.76	57.46	7.33	58.89
MW-20	7	65.42	66.22	66.22	-235.78	65.71	7.96	58.26	6.60	59.62
MW-20	8	65.42	66.22	66.22	-293.78	65.63	8.03	58.19	7.44	58.78
MW-21	1	58.50	59.17	59.17	4.17	58.61	4.12	55.05	3.48	55.69
MW-21	2	58.50	59.17	59.17	-32.83	58.75	4.01	55.16	3.12	56.05
MW-21	3	58.50	59.17	59.17	-95.83	58.80	3.97	55.21	3.10	56.08
MW-21	4	58.50	59.17	59.17	-150.83	58.80	3.98	55.19	3.35	55.82
MW-21	5	58.50	59.17	59.17	-205.83	58.76	3.92	55.25	3.32	55.85
MW-21	6	58.50	59.17	59.17	-373.83	58.82	1.91	57.26	0.35	58.82
MW-21	7	58.50	59.17	59.17	-430.83	58.72	2.14	57.03	0.45	58.72
MW-21	8	58.50	59.17	59.17	-450.83	58.82	1.93	57.24	0.35	58.82
MW-22	1	68.52	69.28	69.28	19.28	68.74	10.48	58.80	9.29	59.99
MW-22	2	68.52	69.28	69.28	-60.72	68.70	10.00	59.28	9.02	60.26
MW-22	3	68.52	69.28	69.28	-145.72	68.70	9.59	59.69	8.65	60.63
MW-22	4	68.52	69.28	69.28	-240.72	68.66	8.76	60.53	7.96	61.33
MW-23	1	69.68	70.43	70.43	5.43	69.93	15.86	54.57	17.59	52.84
MW-23	2	69.68	70.43	70.43	-54.57	69.81	18.61	51.83	17.46	52.98
MW-23	3	69.68	70.43	70.43	-104.57	69.96	18.18	52.25	16.89	53.54
MW-23	4	69.68	70.43	70.43	-160.57	69.96	19.19	51.24	17.86	52.57
MW-23	5	69.68	70.43	70.43	-192.57	69.94	20.10	50.33	17.57	52.86
MW-23	6	69.68	70.43	70.43	-250.57	69.97	19.18	51.25	17.79	52.64
MW-23	7	69.68	70.43	70.43	-284.57	69.97	18.76	51.67	16.92	53.51

TABLE 4-1
Baseline Sampling Rounds 1 and 2
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Well ID	Port (#)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Centre of Port Elevation (ft msl)	Top of Port Fitting (ft btopf)	Round 1 12/23/2016		Round 2 7/10/2017	
							Depth to Water (ft bgs)	Water Level Elevation (ft msl)	Depth to Water (ft bgs)	Water Level Elevation (ft msl)
MW-23	8	69.68	70.43	70.43	-340.57	69.94	20.51	49.92	18.99	51.44
MW-23	9	69.68	70.43	70.43	-378.57	69.92	13.65	56.78	11.85	58.58
MW-24	1	66.57	67.10	67.08	-22.92	66.67	15.82	51.28	16.81	50.29
MW-24	2	66.57	67.10	67.08	-72.92	66.61	15.80	51.30	15.24	51.86
MW-24	3	66.57	67.10	67.08	-177.92	66.65	15.91	51.19	15.52	51.58
MW-24	4	66.57	67.10	67.08	-269.92	66.67	15.64	51.46	15.78	51.32
MW-24	5	66.57	67.10	67.08	-307.92	66.64	13.85	53.25	13.34	53.76
MW-24	6	66.57	67.10	67.08	-392.92	66.65	13.56	53.54	12.75	54.35
MW-25	1	68.22	68.92	66.58	-23.42	68.37	26.35	42.57	26.45	42.47
MW-25	2	68.22	68.92	66.58	-113.42	68.36	21.97	46.95	20.76	48.16
MW-25	3	68.22	68.92	66.58	-138.42	68.37	21.76	47.16	20.16	48.76
MW-25	4	68.22	68.92	66.58	-213.42	68.37	22.97	45.95	21.83	47.09
MW-25	5	68.22	68.92	66.58	-283.42	68.37	24.19	44.73	22.70	46.22
MW-25	6	68.22	68.92	66.58	-373.42	68.37	21.55	47.37	20.07	48.85
MW-26	1	68.43	69.20	69.18	-30.82	68.57	16.18	53.02	13.70	55.50
MW-26	2	68.43	69.20	69.18	-110.82	68.62	15.94	53.26	13.09	56.11
MW-26	3	68.43	69.20	69.18	-190.82	68.57	11.32	57.88	9.70	59.50
MW-26	4	68.43	69.20	69.18	-243.32	68.57	11.28	57.92	9.41	59.79
MW-26	5	68.43	69.20	69.18	-320.82	68.53	10.96	58.24	8.92	60.28
MW-26	6	68.43	69.20	69.18	-390.82	68.53	9.71	59.49	8.80	60.40
MW-27	1	68.23	69.04	69.03	-20.97	68.28	14.43	54.61	11.73	57.31
MW-27	2	68.23	69.04	69.03	-115.97	68.26	11.64	57.40	9.56	59.48
MW-27	3	68.23	69.04	69.03	-160.97	68.28	10.83	58.21	10.35	58.69
MW-27	4	68.23	69.04	69.03	-305.97	68.24	8.88	60.16	7.85	61.19
MW-27	5	68.23	69.04	69.03	-395.97	68.29	9.07	59.97	8.59	60.45
FPW	1	71.61	72.76	72.76	36.43	72.01	12.44	60.32	11.26	61.50
FPW	2	71.61	72.76	72.76	23.93	72.01	13.40	59.36	11.55	61.21
FPW	3	71.61	72.76	72.76	-32.57	72.06	12.39	60.37	11.26	61.50
FPW	4	71.61	72.76	72.76	-57.57	72.01	12.11	60.65	10.85	61.91
FPW	5	71.61	72.76	72.76	-112.57	72.03	12.03	60.73	11.28	61.48
FPW	6	71.61	72.76	72.76	-130.07	72.06	11.97	60.79	11.28	61.48
FPW	7	71.61	72.76	72.76	-167.57	72.11	11.12	61.64	6.36	66.40
FPW	8	71.61	72.76	72.76	-200.57	72.13	11.93	60.83	6.27	66.49
FPW	9	71.61	72.76	72.76	-232.57	72.13	11.51	61.25	6.20	66.56
ERT-1	1	69.84	70.35	70.35	43.97	69.99	9.73	60.62	9.18	61.17
ERT-1	2	69.84	70.35	70.35	32.47	69.97	9.69	60.66	9.17	61.18
ERT-1	3	69.84	70.35	70.35	19.47	70.00	9.61	60.74	9.12	61.23
ERT-1	4	69.84	70.35	70.35	8.97	69.95	9.64	60.71	9.16	61.19
ERT-1	5	69.84	70.35	70.35	-1.53	70.02	9.59	60.76	9.12	61.23

TABLE 4-1
Baseline Sampling Rounds 1 and 2
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Well ID	Port (#)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Centre of Port Elevation (ft msl)	Top of Port Fitting (ft btopf)	Round 1 12/23/2016		Round 2 7/10/2017	
							Depth to Water (ft bgs)	Water Level Elevation (ft msl)	Depth to Water (ft bgs)	Water Level Elevation (ft msl)
ERT-1	6	69.84	70.35	70.35	-32.03	70.03	9.50	60.85	8.94	61.41
ERT-1	7	69.84	70.35	70.35	-44.03	70.02	9.45	60.90	8.93	61.42
ERT-1	8	69.84	70.35	70.35	-67.03	70.04	9.44	60.91	8.86	61.49
ERT-2	1	80.36	80.99	80.99	50.99	80.47	17.78	63.21	18.76	62.23
ERT-2	2	80.36	80.99	80.99	35.99	80.47	20.98	60.01	19.76	61.23
ERT-2	3	80.36	80.99	80.99	24.49	80.49	20.79	60.20	19.42	61.57
ERT-2	4	80.36	80.99	80.99	8.49	80.47	20.75	60.24	19.51	61.48
ERT-2	5	80.36	80.99	80.99	-21.01	80.45	20.54	60.45	19.51	61.48
ERT-2	6	80.36	80.99	80.99	-37.01	80.45	20.53	60.46	19.57	61.42
ERT-2	7	80.36	80.99	80.99	-51.01	80.45	20.51	60.48	19.54	61.45
ERT-3	1	68.69	69.10	65.84	33.84	68.91	11.20	57.90	10.49	58.61
ERT-3	2	68.69	69.10	65.84	5.84	68.87	11.57	57.53	10.81	58.29
ERT-3	3	68.69	69.10	65.84	-31.66	68.88	11.91	57.19	10.74	58.36
ERT-3	4	68.69	69.10	65.84	-49.16	68.91	11.57	57.53	10.56	58.54
ERT-3	5	68.69	69.10	65.84	-63.16	68.87	9.62	59.48	8.57	60.53
ERT-3	6	68.69	69.10	65.84	-77.16	68.87	9.73	59.37	8.59	60.51
ERT-4	1	61.77	62.43	59.21	27.21	62.23	6.54	55.89	5.93	56.50
ERT-4	2	61.77	62.43	59.21	8.21	62.22	5.55	56.88	4.50	57.93
ERT-4	3	61.77	62.43	59.21	-4.29	62.26	5.46	56.97	4.39	58.04
ERT-4	4	61.77	62.43	59.21	-26.29	62.19	5.61	56.82	4.52	57.91
ERT-4	5	61.77	62.43	59.21	-39.29	62.11	5.73	56.70	4.60	57.83
ERT-4	6	61.77	62.43	59.21	-54.29	62.15	5.66	56.77	4.53	57.90
ERT-4	7	61.77	62.43	59.21	-73.79	62.15	5.56	56.87	4.38	58.05
ERT-5	1	69.03	69.72	69.72	40.72	69.17	11.08	58.64	9.63	60.09
ERT-5	2	69.03	69.72	69.72	27.72	69.17	11.42	58.30	10.18	59.54
ERT-5	3	69.03	69.72	69.72	14.72	69.16	10.08	59.64	8.72	61.00
ERT-5	4	69.03	69.72	69.72	-12.28	69.15	9.55	60.17	8.28	61.44
ERT-5	5	69.03	69.72	69.72	-25.78	69.18	10.25	59.47	9.10	60.62
ERT-5	6	69.03	69.72	69.72	-55.28	69.20	10.10	59.62	8.99	60.73
ERT-6	1	67.52	68.04	65.49	34.49	67.84	10.26	57.78	9.12	58.92
ERT-6	2	67.52	68.04	65.49	-14.51	67.86	9.70	58.34	8.51	59.53
ERT-6	3	67.52	68.04	65.49	-32.51	67.84	9.71	58.33	8.47	59.57
ERT-6	4	67.52	68.04	65.49	-46.51	67.85	9.95	58.09	8.94	59.10
ERT-6	5	67.52	68.04	65.49	-67.51	67.85	9.27	58.77	8.41	59.63
ERT-7	1	80.19	81.00	81.00	51	80.46	19.82	61.18	18.42	62.58
ERT-7	2	80.19	81.00	81.00	31	80.40	19.79	61.21	18.75	62.25
ERT-7	3	80.19	81.00	81.00	11	80.42	19.99	61.01	19.02	61.98
ERT-7	4	80.19	81.00	81.00	-24	80.45	20.06	60.94	19.12	61.88
ERT-7	5	80.19	81.00	81.00	-54	80.48	20.09	60.91	19.17	61.83

TABLE 4-1
Baseline Sampling Rounds 1 and 2
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Well ID	Port (#)	PVC Elevation [1] (ft msl)	Casing Elevation (ft msl)	Ground Elevation (ft msl)	Centre of Port Elevation (ft msl)	Top of Port Fitting (ft btopf)	Round 1 12/23/2016		Round 2 7/10/2017	
							Depth to Water (ft bgs)	Water Level Elevation (ft msl)	Depth to Water (ft bgs)	Water Level Elevation (ft msl)
ERT-8	1	82.74	83.36	83.36	61.36	82.90	21.34	62.02	20.35	63.01
ERT-8	2	82.74	83.36	83.36	47.36	82.93	21.85	61.51	20.52	62.84
ERT-8	3	82.74	83.36	83.36	34.36	82.90	21.91	61.45	20.90	62.46
ERT-8	4	82.74	83.36	83.36	23.86	82.86	NR	NR	NR	NR
ERT-8	5	82.74	83.36	83.36	-8.64	82.82	21.74	61.62	20.79	62.57
ERT-8	6	82.74	83.36	83.36	-26.14	82.90	21.75	61.61	20.81	62.55
ERT-8	7	82.74	83.36	83.36	-56.64	82.90	22.05	61.31	20.90	62.46

Notes:

f bC = Feet below Casing

f msl = Feet above mean sea level

Horizontal Datum: NJ State Plane NAD83 feet.

Table 4-2
Summary Statistics - Baseline Sampling and Historical RI
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Chemical	October 2009 Groundwater			March 2010 Groundwater			July 2010 Groundwater			December 2010 Groundwater (MW-23)		
	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)
Volatile Organic Compounds												
1,1,1-Trichloroethane	9 / 128	0.27	0.92	11 / 128	0.17	1.0	Not Sampled			3 / 9	0.061	0.12
1,1,2-Trichloro-1,2,2-trifluoroethane	1 / 128	1.2	1.2	2 / 128	1.3	2.2	Not Sampled			0 / 9	--	--
1,1,2-Trichloroethane	3 / 128	0.46	1.8	23 / 128	0.27	120	Not Sampled			0 / 9	--	--
1,1-Dichloroethane	20 / 128	0.29	1.6	42 / 128	0.11	26	Not Sampled			5 / 9	0.11	0.17
1,1-Dichloroethene	22 / 128	0.96	13	59 / 128	0.53	280	Not Sampled			5 / 9	0.57	1.6
1,2,3-Trichlorobenzene	10 / 127	0.53	84	26 / 126	0.12	280	Not Sampled			0 / 9	--	--
1,2,4-Trichlorobenzene	16 / 127	0.39	340	28 / 126	0.10	1,600	Not Sampled			0 / 9	--	--
1,2-Dibromo-3-chloropropane	1 / 128	0.39	0.39	8 / 127	0.04	0.18	Not Sampled			0 / 9	--	--
1,2-Dibromoethane (ethylene dibromide)	0 / 128	--	--	1 / 128	0.01	0.01	Not Sampled			0 / 9	--	--
1,2-Dichlorobenzene	4 / 127	0.57	3.7	21 / 126	0.15	56	Not Sampled			0 / 9	--	--
1,2-Dichloroethane	6 / 128	0.46	0.79	21 / 128	0.22	15	Not Sampled			0 / 9	--	--
1,3-Dichlorobenzene	8 / 127	0.24	29	24 / 126	0.02	120	Not Sampled			0 / 9	--	--
1,4-Dichlorobenzene	9 / 127	0.62	44	25 / 126	0.25	110	Not Sampled			0 / 9	--	--
2-Butanone (MEK)	12 / 128	3.0	39	2 / 124	1.8	4.8	Not Sampled			0 / 9	--	--
Acetone	26 / 128	2.9	530	22 / 126	0.82	78	Not Sampled			5 / 9	6.5	14
Benzene	6 / 128	0.28	1.8	25 / 128	0.14	24	Not Sampled			0 / 9	--	--
Bromodichloromethane	17 / 128	0.28	1.7	4 / 127	0.25	0.48	Not Sampled			1 / 9	0.14	0.14
Bromoform	14 / 127	0.55	2.0	5 / 126	0.37	2.9	Not Sampled			0 / 9	--	--
Carbon tetrachloride	3 / 128	0.36	0.46	6 / 128	0.25	0.72	Not Sampled			0 / 9	--	--
Chlorobenzene	9 / 128	0.26	65	22 / 128	0.21	54	Not Sampled			0 / 9	--	--
Chloroform	37 / 128	0.48	150	53 / 128	0.26	19	Not Sampled			4 / 9	0.59	1.3
Chloromethane	0 / 128	--	--	2 / 128	0.62	1.3	Not Sampled			0 / 9	--	--
cis-1,2-Dichloroethene	105 / 128	0.27	390,000	102 / 128	0.25	53,000	Not Sampled			9 / 9	0.49	19
Cyclohexane	2 / 128	2.2	2.3	9 / 128	0.23	13	Not Sampled			0 / 9	--	--
Dibromochloromethane	11 / 128	0.26	0.61	7 / 128	0.21	1.2	Not Sampled			0 / 9	--	--
Ethylbenzene	0 / 128	--	--	5 / 128	0.43	20	Not Sampled			0 / 9	--	--
Isopropylbenzene (cumene)	0 / 128	--	--	3 / 128	0.20	5.1	Not Sampled			0 / 9	--	--
m,p-Xylene	0 / 128	--	--	5 / 128	0.41	15	Not Sampled			0 / 9	--	--
Methyl acetate	1 / 128	3.4	3.4	0 / 128	--	--	Not Sampled			0 / 9	--	--
Methyl tert-butyl ether	45 / 128	0.33	330	56 / 128	0.15	320	Not Sampled			8 / 9	0.1	0.46
Methylcyclohexane	0 / 128	--	--	11 / 127	0.14	42	Not Sampled			0 / 9	--	--
Methylene chloride	1 / 128	1.4	1.4	20 / 128	0.23	7.0	Not Sampled			0 / 9	--	--
o-Xylene	1 / 128	0.33	0.33	7 / 128	0.99	85	Not Sampled			0 / 9	--	--
Tetrachloroethene	37 / 128	0.26	1,600	69 / 128	0.12	110	Not Sampled			3 / 9	0.3	0.55
Toluene	60 / 128	0.16	78	71 / 128	0.13	86	Not Sampled			9 / 9	2.2	48
trans-1,2-Dichloroethene	26 / 128	0.29	1,000	58 / 128	0.11	1,300	Not Sampled			0 / 9	--	--
Trichloroethene	115 / 128	0.29	170,000	106 / 128	0.28	23,000	Not Sampled			9 / 9	3.8	120
Trichlorofluoromethane	1 / 128	0.55	0.55	3 / 128	0.30	1.1	Not Sampled			0 / 9	--	--
Vinyl chloride	25 / 128	0.71	710	39 / 128	0.36	860	Not Sampled			0 / 9	--	--

Table 4-2
Summary Statistics - Baseline Sampling and Historical RI
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Chemical	October 2009 Groundwater			March 2010 Groundwater			July 2010 Groundwater			December 2010 Groundwater (MW-23)		
	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)
Semi-Volatile Organic Compounds												
1,1'-Biphenyl	1 / 129	17	17	3 / 128	1.1	2.3	Not Sampled			0 / 9	--	--
1,2,4,5-Tetrachlorobenzene	1 / 129	3.5	3.5	0 / 128	--	--	Not Sampled			0 / 9	--	--
1,4-Dioxane	Not Sampled			Not Sampled			Not Sampled			Not Sampled		
2,4-Dichlorophenol	1 / 129	5.3	5.3	0 / 128	--	--	Not Sampled			0 / 9	--	--
2-Chlorophenol	1 / 128	2.6	2.6	0 / 128	--	--	Not Sampled			0 / 9	--	--
2-Methylnaphthalene	2 / 129	0.18	2.2	4 / 128	0.12	0.27	Not Sampled			0 / 9	--	--
Acenaphthene	2 / 129	0.28	0.39	3 / 128	0.13	0.34	Not Sampled			0 / 9	--	--
Acenaphthylene	Not Sampled			Not Sampled			Not Sampled			Not Sampled		
Acetophenone	0 / 129	--	--	2 / 128	1.6	2.8	Not Sampled			0 / 9	--	--
Anthracene	0 / 129	--	--	2 / 128	0.12	0.49	Not Sampled			0 / 9	--	--
Benzaldehyde	2 / 128	4.2	7.2	0 / 128	--	--	Not Sampled			0 / 9	--	--
Benzo(a)anthracene	0 / 129	--	--	3 / 128	0.08	1.7	Not Sampled			0 / 9	--	--
Benzo(a)pyrene	5 / 129	0.14	4.3	3 / 128	0.20	2.5	Not Sampled			0 / 9	--	--
Benzo(b)fluoranthene	2 / 128	2.1	3.0	8 / 128	0.08	2.1	Not Sampled			0 / 9	--	--
Benzo(g,h,i)perylene	2 / 128	2.1	2.6	11 / 128	0.09	2.4	Not Sampled			0 / 9	--	--
Benzo(k)fluoranthene	3 / 129	1.3	3.5	7 / 128	0.09	2.0	Not Sampled			0 / 9	--	--
Bis(2-ethylhexyl)phthalate	25 / 129	2.1	26	5 / 128	1.2	3.7	Not Sampled			3 / 9	11	220
Caprolactam	34 / 129	2.0	95	1 / 128	2.5	2.5	Not Sampled			4 / 9	2	30
Carbazole	0 / 159	--	--	1 / 128	0.54	0.54	Not Sampled			0 / 9	--	--
Chrysene	0 / 159	--	--	4 / 128	0.09	1.7	Not Sampled			0 / 9	--	--
Dibenzo(a,h)anthracene	0 / 127	--	--	31 / 128	0.07	5.5	Not Sampled			0 / 9	--	--
Diethylphthalate	1 / 129	41	41	1 / 128	1.7	1.7	Not Sampled			0 / 9	--	--
Dimethylphthalate	1 / 129	11	11	0 / 128	--	--	Not Sampled			0 / 9	--	--
Di-n-butylphthalate	Not Sampled			Not Sampled			Not Sampled			Not Sampled		
Fluoranthene	0 / 129	--	--	3 / 128	0.38	2.9	Not Sampled			0 / 9	--	--
Fluorene	1 / 129	0.56	0.56	2 / 128	0.17	0.29	Not Sampled			1 / 9	0.033	0.033
Indeno(1,2,3-cd)pyrene	1 / 128	2.8	2.8	59 / 128	0.08	3.1	Not Sampled			0 / 9	--	--
Naphthalene	26 / 129	0.08	14	37 / 128	0.08	6.5	Not Sampled			1 / 9	0.03	0.03
Pentachlorophenol	0 / 129	--	--	2 / 66	0.08	0.09	Not Sampled			0 / 9	--	--
Phenanthrene	0 / 129	--	--	3 / 128	0.13	1.5	Not Sampled			1 / 9	0.38	0.38
Phenol	2 / 128	2.4	3.0	4 / 128	1.8	4.3	Not Sampled			0 / 9	--	--
Pyrene	1 / 129	0.91	0.91	3 / 128	0.31	2.3	Not Sampled			0 / 9	--	--
Polychlorinated Biphenyls												
Aroclor-1016	1 / 129	0.13	0.13	15 / 128	0.06	30	Not Sampled			0 / 9	--	--
Aroclor-1242												
Aroclor-1248	21 / 122	0.12	7,300	0 / 128	--	--	Not Sampled			0 / 9	--	--
Aroclor-1254	33 / 127	0.06	5,600	38 / 128	0.03	190	Not Sampled			0 / 9	--	--
Total PCB Aroclors	27 / 119	0.058	12,900	42 / 128	0.031	190	Not Sampled			0 / 9	--	--
Total PCB congeners	Not Sampled			16 / 16	0.000066	67,666	5 / 6	0.00288	222	Not Sampled		

Table 4-2
Summary Statistics - Baseline Sampling and Historical RI
Cornell-Dubilier Electronics Superfund Site, OU3
South Plainfield, New Jersey

Chemical	October 2009 Groundwater			March 2010 Groundwater			July 2010 Groundwater			December 2010 Groundwater (MW-23)		
	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)
Pesticides												
4,4'-DDD	15 / 72	0.09	1,800	0 / 0	--	--	Not Sampled			0 / 9	--	,
4,4'-DDE	11 / 129	0.09	1,600	6 / 125	0.10	260	Not Sampled			0 / 9	--	--
4,4'-DDT	22 / 129	0.13	4,000	4 / 124	12	840	Not Sampled			0 / 9	--	--
alpha-BHC	5 / 129	0.12	0.33	8 / 128	0.09	68	Not Sampled			0 / 9	--	--
beta-BHC	9 / 129	0.06	680	0 / 128	--	--	Not Sampled			0 / 9	--	--
delta-BHC	5 / 70	0.18	880	0 / 128	--	--	Not Sampled			0 / 9	--	--
Dieldrin	2 / 128	0.18	0.33	6 / 125	0.19	350	Not Sampled			0 / 9	--	--
Endosulfan II	0 / 129	--	--	7 / 128	0.17	240	Not Sampled			0 / 9	--	--
Endosulfan sulfate	0 / 129	--	--	7 / 128	0.08	75	Not Sampled			0 / 9	--	--
Endrin	0 / 129	--	--	1 / 124	0.19	0.19	Not Sampled			0 / 9	--	--
Endrin aldehyde	0 / 129	--	--	6 / 128	0.11	150	Not Sampled			0 / 9	--	--
gamma-BHC (Lindane)	0 / 129	--	--	6 / 128	0.07	14	Not Sampled			0 / 9	--	--
gamma-Chlordane	0 / 129	--	--	13 / 128	0.06	370	Not Sampled			0 / 9	--	--
Heptachlor	10 / 129	0.06	300	6 / 128	0.37	120	Not Sampled			0 / 9	--	--
Heptachlor epoxide	2 / 129	0.20	2.6	0 / 128	--	--	Not Sampled			0 / 9	--	--
Methoxychlor	0 / 129	--	--	5 / 128	0.22	400	Not Sampled			0 / 9	--	--
Dioxins												
2,3,7,8-TCDD TEQ	Not Sampled			22 / 23	9E-10	0.207422	24 / 24	6.3E-09	0.217825	11 / 11	4.8E-08	0.007119
Inorganic Parameters												
Aluminum	41 / 128	27	6,210	34 / 128	71	2,710	Not Sampled			9 / 9	12.1	82.8
Antimony	4 / 129	2.0	3.2	1 / 128	3.5	3.5	Not Sampled			8 / 9	0.32	0.94
Arsenic	129 / 129	0.87	829	128 / 128	0.68	428	Not Sampled			9 / 9	4.1	17.9
Barium	128 / 129	12	8,790	128 / 128	8.7	8,330	Not Sampled			9 / 9	13.4	150
Beryllium	3 / 129	0.069	0.20	2 / 128	0.23	0.45	Not Sampled			0 / 9	--	--
Cadmium	16 / 129	0.04	4.6	8 / 128	0.30	17	Not Sampled			0 / 9	--	--
Calcium	129 / 129	29,500	586,000	128 / 128	34,500	597,000	Not Sampled			9 / 9	50,900	288,000
Chromium	44 / 129	0.11	78	53 / 128	0.36	97	Not Sampled			3 / 9	0.21	0.25
Cobalt	40 / 129	0.044	4.6	30 / 128	0.20	6.6	Not Sampled			9 / 9	0.053	0.36
Copper	85 / 128	0.36	123	100 / 128	0.57	62	Not Sampled			9 / 9	0.73	8
Cyanide	19 / 129	1.0	25	0 / 128	--	--	Not Sampled			0 / 9	--	--
Iron	37 / 129	33.7	8,520	32 / 128	47	8,300	Not Sampled			8 / 9	11	75.5
Lead	110 / 129	0.71	21	124 / 128	0.25	33	Not Sampled			9 / 9	1.1	4.6
Magnesium	129 / 129	1,160	130,000	128 / 128	4,210	135,000	Not Sampled			9 / 9	26,600	81,700
Manganese	119 / 129	0.18	1,580	119 / 128	0.29	2,020	Not Sampled			9 / 9	4	51
Mercury	0 / 129	--	--	18 / 128	0.05	0.12	Not Sampled			0 / 9	--	--
Nickel	95 / 110	0.72	13	95 / 128	0.21	18	Not Sampled			9 / 9	0.19	0.59
Potassium	95 / 129	791	26,700	66 / 128	1,660	27,800	Not Sampled			9 / 9	1,520	3,380
Selenium	37 / 129	0.16	1.1	4 / 128	0.97	2.2	Not Sampled			8 / 9	0.3	0.74
Silver	12 / 129	0.02	0.12	0 / 128	--	--	Not Sampled			0 / 9	--	--
Sodium	129 / 129	8,750	184,000	128 / 128	8,450	691,000	Not Sampled			9 / 9	14,700	64,600
Vanadium	87 / 129	5.1	23	121 / 128	1.3	30	Not Sampled			9 / 9	6	14.4
Zinc	129 / 129	6.2	125	128 / 128	2.5	187	Not Sampled			9 / 9	6.5	12.3

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Chemical	March 2011 Groundwater (MW-23)			Combined Data Summary			Selection of COCs		Baseline Sampling Round 1 December 2016/January 2017			Baseline Sampling Round 2 July/August 2017			Selected COCs	
	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Potential Cleanup Standard (µg/L)	Chemical Selected as COC? [Y/N]	Frequency / Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Potential Cleanup Standard (µg/L)	Chemical Selected as COC? [Y/N]
Volatile Organic Compounds																
1,1,1-Trichloroethane	0 / 9	--	--	23 / 274	0.061	1.00	30	N	14 / 173	0.2	0.69	10 / 174	0.2	0.69	30	N
1,1,2-Trichloro-1,2,2-trifluoroethane	0 / 9	--	--	3 / 274	1.200	2.20	N/A	N	0 / 173	-	-	0 / 174	-	-	N/A	N
1,1,2-Trichloroethane	0 / 9	--	--	26 / 274	0.265	120	3	**Y**	5 / 173	0.92	28	19 / 174	0.2	77	**3**	**Y**
1,1-Dichloroethane	0 / 9	--	--	67 / 274	0.110	26	50	N	39 / 173	0.11	18	52 / 174	0.15	15	50	N
1,1-Dichloroethene	6 / 9	0.22	0.87	92 / 274	0.220	280	1	**Y**	70 / 173	0.2	130	72 / 174	0.011	460	**1**	**Y**
1,2,3-Trichlorobenzene	0 / 9	--	--	36 / 271	0.120	280	N/A	N	16 / 173	0.95	350	5 / 174	15	360	N/A	N
1,2,4-Trichlorobenzene	0 / 9	--	--	44 / 271	0.100	1,600	9	**Y**	18 / 173	2.5	1,300	9 / 174	7.8	1,400	**9**	**Y**
1,2-Dibromo-3-chloropropane	0 / 9	--	--	9 / 273	0.037	0.39	0.02	**Y**	0 / 173	-	-	0 / 174	-	-	**0.02**	**Y**
1,2-Dibromoethane (ethylene dibromide)	0 / 9	--	--	1 / 274	0.010	0.01	0.03	N	0 / 173	-	-	0 / 174	-	-	0.03	N
1,2-Dichlorobenzene	0 / 9	--	--	25 / 271	0.150	56	600	N	7 / 173	3	61	8 / 174	0.89	57	600	N
1,2-Dichloroethane	0 / 9	--	--	27 / 274	0.220	15	2	**Y**	5 / 173	0.13	0.73	7 / 174	0.19	0.97	**2**	**Y**
1,3-Dichlorobenzene	0 / 9	--	--	32 / 271	0.015	120	600	N	7 / 173	3.4	110	20 / 174	0.2	96	600	N
1,4-Dichlorobenzene	0 / 9	--	--	34 / 271	0.250	110	75	**Y**	7 / 173	21	160	10 / 174	1.3	130	**75**	**Y**
2-Butanone (MEK)	0 / 9	--	--	14 / 270	1.800	39	300	N	0 / 173	-	-	7 / 174	0.91	17	300	N
Acetone	0 / 9	--	--	53 / 272	0.820	530	6000	N	0 / 173	-	-	30 / 174	0.78	37	6000	N
Benzene	0 / 9	--	--	31 / 274	0.135	24	1	**Y**	20 / 173	0.012	1.6	59 / 174	0.011	2.5	**1**	**Y**
Bromodichloromethane	0 / 9	--	--	22 / 273	0.140	1.70	1	**Y**	8 / 173	0.01	0.053	12 / 174	0.01	0.052	**1**	**Y**
Bromoform	0 / 9	--	--	19 / 271	0.370	2.90	4	N	0 / 173	-	-	0 / 174	-	-	4	N
Carbon tetrachloride	0 / 9	--	--	9 / 274	0.250	0.72	1	N	1 / 173	0.32	0.32	12 / 174	0.14	3.2	1	N
Chlorobenzene	0 / 9	--	--	31 / 274	0.210	65	50	**Y**	11 / 173	0.1	390	22 / 174	0.11	500	**50**	**Y**
Chloroform	3 / 9	0.23	0.39	97 / 274	0.230	150	70	**Y**	44 / 173	0.12	3.6	29 / 174	0.22	3.2	**70**	**Y**
Chloromethane	0 / 9	--	--	2 / 274	0.620	1.30	N/A	N	0 / 173	-	-	0 / 174	-	-	N/A	N
cis-1,2-Dichloroethene	8 / 9	1.6	9.6	224 / 274	0.250	390,000	70	**Y**	146 / 173	0.2	200,000	150 / 174	0.18	230,000	**70**	**Y**
Cyclohexane	0 / 9	--	--	11 / 274	0.225	13	N/A	N	1 / 173	1.1	1.1	0 / 174	-	-	N/A	N
Dibromochloromethane	0 / 9	--	--	18 / 274	0.210	1.20	1	**Y**	0 / 173	-	-	0 / 174	-	-	**1**	**Y**
Ethylbenzene	0 / 9	--	--	5 / 274	0.430	20	700	N	0 / 173	-	-	0 / 174	-	-	700	N
Isopropylbenzene (cumene)	0 / 9	--	--	3 / 274	0.200	5.10	700	N	0 / 173	-	-	0 / 174	-	-	700	N
m,p-Xylene	0 / 9	--	--	5 / 274	0.410	15	N/A	N	0 / 173	-	-	0 / 174	-	-	N/A	N
Methyl acetate	0 / 9	--	--	1 / 274	3.400	3.40	7000	N	0 / 173	-	-	0 / 174	-	-	7000	N
Methyl tert-butyl ether	2 / 9	0.28	0.36	111 / 274	0.100	330	70	**Y**	43 / 173	0.15	340	55 / 174	0.11	380	**70**	**Y**
Methylcyclohexane	0 / 9	--	--	11 / 273	0.140	42	N/A	N	3 / 173	0.64	1.6	0 / 174	-	-	N/A	N
Methylene chloride	0 / 9	--	--	21 / 274	0.230	7	3	**Y**	6 / 173	0.25	0.89	40 / 174	0.12	270	**3**	**Y**
o-Xylene	0 / 9	--	--	8 / 274	0.330	85	N/A	N	0 / 173	-	-	3 / 174	0.2	0.2	N/A	N
Tetrachloroethene	3 / 9	0.25	0.35	112 / 274	0.120	1,600	1	**Y**	52 / 173	0.21	130	106 / 174	0.01	3,000	**1**	**Y**
Toluene	3 / 9	3.1	9.1	143 / 274	0.130	86	600	N	22 / 173	0.097	2.8	24 / 174	0.1	1.4	600	N
trans-1,2-Dichloroethene	0 / 9	--	--	84 / 274	0.110	1,300	100	**Y**	36 / 173	0.08	850	65 / 174	0.14	850	**100**	**Y**
Trichloroethene	9 / 9	0.43	70	239 / 274	0.280	170,000	1	**Y**	155 / 173	0.34	200,000	155 / 174	0.039	120,000	**1**	**Y**
Trichlorofluoromethane	0 / 9	--	--	4 / 274	0.300	1.10	2000	N	9 / 173	0.2	0.74	8 / 174	0.29	0.86	2000	N
Vinyl chloride	0 / 9	--	--	64 / 274	0.360	860	1	**Y**	44 / 173	0.02	970	53 / 174	0.024	2,600	**1**	**Y**

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Chemical	March 2011 Groundwater (MW-23)			Combined Data Summary			Selection of COCs		Baseline Sampling Round 1 December 2016/January 2017			Baseline Sampling Round 2 July/August 2017			Selected COCs	
	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Potential Cleanup Standard (µg/L)	Chemical Selected as COC? [Y/N]	Frequency / Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Potential Cleanup Standard (µg/L)	Chemical Selected as COC? [Y/N]
Semi-Volatile Organic Compounds																
1,1'-Biphenyl	0 / 9	--	--	4 / 275	1.10	17	400	N	5 / 164	0.96	1.5	6 / 155	0.98	1.8	400	N
1,2,4,5-Tetrachlorobenzene	0 / 9	--	--	1 / 275	3.50	3.50	N/A	N	1 / 164	0.71	0.71	0 / 155	-	-	N/A	N
1,4-Dioxane	Not Sampled								28 / 161	0.57	5.4	27 / 155	0.93	12		
2,4-Dichlorophenol	0 / 9	--	--	1 / 275	5.30	5.30	20	N	0 / 164	-	-	0 / 155	-	-	20	N
2-Chlorophenol	0 / 9	--	--	1 / 274	2.60	2.60	40	N	0 / 164	-	-	0 / 155	-	-	40	N
2-Methylnaphthalene	0 / 9	--	--	6 / 275	0.12	2.20	30	N	2 / 164	0.055	0.11	7 / 166	0.012	0.088	30	N
Acenaphthene	0 / 9	--	--	5 / 275	0.13	0.39	400	N	1 / 164	0.39	0.39	8 / 166	0.01	0.3	400	N
Acenaphthylene	Not Sampled								0 / 164	-	-	6 / 166	0.013	0.025		
Acetophenone	0 / 9	--	--	2 / 275	1.60	2.80	700	N	0 / 164	-	-	0 / 165	-	-	700	N
Anthracene	0 / 9	--	--	2 / 275	0.12	0.49	2000	N	2 / 164	0.032	0.21	13 / 166	0.018	0.15	2000	N
Benzaldehyde	0 / 9	--	--	2 / 274	4.20	7.20	N/A	N	0 / 164	-	-	0 / 165	-	-	N/A	N
Benzo(a)anthracene	0 / 9	--	--	3 / 275	0.08	1.70	0.1	**Y**	1 / 164	0.034	0.034	5 / 166	0.01	0.12	**0.1**	**Y**
Benzo(a)pyrene	0 / 9	--	--	8 / 275	0.14	4.30	0.1	**Y**	1 / 164	0.029	0.029	4 / 166	0.025	0.086	**0.1**	**Y**
Benzo(b)fluoranthene	0 / 9	--	--	10 / 274	0.08	3.00	0.2	**Y**	1 / 164	0.036	0.036	4 / 166	0.017	0.087	**0.2**	**Y**
Benzo(g,h,i)perylene	0 / 9	--	--	13 / 274	0.09	2.60	N/A	N	1 / 164	0.038	0.038	5 / 166	0.013	0.09	N/A	N
Benzo(k)fluoranthene	0 / 9	--	--	10 / 275	0.09	3.50	0.5	**Y**	0 / 164	-	-	3 / 166	0.051	0.091	**0.5**	**Y**
Bis(2-ethylhexyl)phthalate	1 / 9	1.1	1.1	34 / 275	1.10	220	3	**Y**	3 / 164	0.46	0.72	5 / 166	0.15	0.47	**3**	**Y**
Caprolactam	0 / 9	--	--	39 / 275	2.00	95	5000	N	16 / 164	0.55	5.2	16 / 155	0.93	4.9	5000	N
Carbazole	0 / 9	--	--	1 / 305	0.54	0.54	N/A	N	0 / 164	-	-	0 / 155	-	-	N/A	N
Chrysene	0 / 9	--	--	4 / 305	0.09	1.70	5	N	1 / 164	0.03	0.03	4 / 166	0.023	0.13	5	N
Dibenzo(a,h)anthracene	0 / 9	--	--	31 / 273	0.07	5.50	0.3	**Y**	1 / 164	0.03	0.03	3 / 166	0.054	0.097	**0.3**	**Y**
Diethylphthalate	0 / 9	--	--	2 / 275	1.70	41.00	6000	N	0 / 164	-	-	0 / 155	-	-	6000	N
Dimethylphthalate	0 / 9	--	--	1 / 275	11.00	11.00	N/A	N	0 / 164	-	-	0 / 155	-	-	N/A	N
Di-n-butylphthalate	Not Sampled								2 / 164	0.56	1.7	5 / 155	1.2	5		
Fluoranthene	0 / 9	--	--	3 / 275	0.38	2.90	300	N	4 / 164	0.015	0.068	7 / 166	0.012	0.087	300	N
Fluorene	0 / 9	--	--	4 / 275	0.03	0.56	300	N	1 / 164	0.073	0.073	6 / 166	0.013	0.039	300	N
Indeno(1,2,3-cd)pyrene	0 / 9	--	--	60 / 274	0.08	3.10	0.2	**Y**	1 / 164	0.033	0.033	3 / 166	0.038	0.089	**0.2**	**Y**
Naphthalene	0 / 9	--	--	64 / 275	0.03	14.00	300	N	14 / 164	0.017	5.3	14 / 166	0.01	2.5	300	N
Pentachlorophenol	0 / 9	--	--	2 / 213	0.08	0.09	0.3	N	3 / 164	0.014	0.021	12 / 165	0.022	0.12	0.3	N
Phenanthrene	0 / 9	--	--	4 / 275	0.13	1.50	N/A	N	2 / 164	0.062	0.11	9 / 166	0.012	0.15	N/A	N
Phenol	0 / 9	--	--	6 / 274	1.80	4.30	2000	N	0 / 164	-	-	0 / 165	-	-	2000	N
Pyrene	1 / 9	0.14	0.14	5 / 275	0.14	2.30	200	N	3 / 164	0.075	0.52	5 / 166	0.026	0.33	200	N
Polychlorinated Biphenyls																
Aroclor-1016	0 / 9	--	--	16 / 275	0.06	30	NA	N	0 / 164	-	-	0 / 166	-	-	NA	N
Aroclor-1242									34 / 164	0.02	1,700	14 / 166	0.73	1,110		
Aroclor-1248	0 / 9	--	--	21 / 268	0.12	7,300	NA	N	0 / 164	-	-	4 / 166	0.092	6.3	NA	N
Aroclor-1254	0 / 9	--	--	71 / 273	0.03	5,600	NA	N	22 / 164	0.026	850	16 / 166	0.046	934	NA	N
Total PCB Aroclors	0 / 9	--	--	69 / 265	0.03	12,900	0.5	**Y**	Not Sampled			Not Sampled			**0.5**	**Y**
Total PCB congeners	Not Sampled			21 / 22	0.000066	67,666	0.5	**Y**	Not Sampled			Not Sampled			**0.5**	**Y**

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	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Potential Cleanup Standard (µg/L)	Chemical Selected as COC? [Y/N]	Frequency / Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Potential Cleanup Standard (µg/L)	Chemical Selected as COC? [Y/N]
Pesticides																
4,4'-DDD	0 / 9	--	--	15 / 90	0.09	1,800	0.1	**Y**	5 / 163	0.0021	0.62	0 / 166	-	-	**0.1**	**Y**
4,4'-DDE	0 / 9	--	--	17 / 272	0.09	1,600	0.1	**Y**	11 / 164	0.0012	5	0 / 166	-	-	**0.1**	**Y**
4,4'-DDT	0 / 9	--	--	26 / 271	0.13	4,000	0.1	**Y**	9 / 160	0.0037	19	0 / 166	-	-	**0.1**	**Y**
alpha-BHC	0 / 9	--	--	13 / 275	0.09	68	0.02	**Y**	0 / 164	0.01	0.05	0 / 166	-	-	**0.02**	**Y**
beta-BHC	0 / 9	--	--	9 / 275	0.06	680	0.04	**Y**	12 / 156	0.0017	1.4	0 / 166	-	-	**0.04**	**Y**
delta-BHC	0 / 9	--	--	5 / 216	0.18	880	N/A	N	5 / 156	0.0024	0.025	0 / 166	-	-	N/A	N
Dieldrin	0 / 9	--	--	8 / 271	0.18	350	0.03	**Y**	24 / 164	0.0017	16	13 / 166	0.0035	0.54	**0.03**	**Y**
Endosulfan II	0 / 9	--	--	7 / 275	0.17	240	40	**Y**	5 / 163	0.0018	0.25	0 / 166	-	-	**40**	**Y**
Endosulfan sulfate	0 / 9	--	--	7 / 275	0.08	75	40	**Y**	3 / 164	0.0026	0.25	0 / 166	-	-	**40**	**Y**
Endrin	0 / 9	--	--	1 / 271	0.19	0	2	N	2 / 159	0.0025	0.05	0 / 166	-	-	2	N
Endrin aldehyde	0 / 9	--	--	6 / 275	0.11	150	N/A	N	5 / 164	0.05	2.1	1 / 166	0.038	0.038	N/A	N
gamma-BHC (Lindane)	0 / 9	--	--	6 / 275	0.07	14	0.03	**Y**	10 / 160	0.0028	1.4	1 / 166	0.011	0.011	**0.03**	**Y**
gamma-Chlordane	3 / 9	0.029	0.032	16 / 275	0.03	370	0.5	**Y**	8 / 161	0.0018	5.3	0 / 166	-	-	**0.5**	**Y**
Heptachlor	0 / 9	--	--	16 / 275	0.06	300	0.05	**Y**	2 / 164	0.02	1.4	0 / 166	-	-	**0.05**	**Y**
Heptachlor epoxide	0 / 9	--	--	2 / 275	0.20	3	0.2	**Y**	39 / 160	0.0016	0.025	0 / 166	-	-	**0.2**	**Y**
Methoxychlor	0 / 9	--	--	5 / 275	0.22	400	40	**Y**	7 / 164	0.0084	1.3	0 / 166	-	-	**40**	**Y**
Dioxins																
2,3,7,8-TCDD TEQ	13 / 13	6.39E-09	0.000578	46 / 47	9E-10	0.217825	0.00001	**Y**	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	**0.00001**	**Y**
Inorganic Parameters																
Aluminum	0 / 0	--	--	84 / 265	12.10	6,210	50	**Y**	49 / 164	15	1,500	58 / 166	16	5,000	**50**	**Y**
Antimony	0 / 9	--	--	13 / 275	0.32	3.50	6	N	0 / 164	-	-	0 / 166	-	-	6	N
Arsenic	9 / 9	9	28.3	275 / 275	0.68	829	3	**Y**	151 / 164	1.1	11	151 / 166	1	11	**3**	**Y**
Barium	9 / 9	14.1	173	274 / 275	8.70	8,790	2,000	**Y**	164 / 164	5.9	9,200	166 / 166	6.8	8,600	**2,000**	**Y**
Beryllium	0 / 9	--	--	5 / 275	0.07	0.45	1	N	0 / 164	-	-	0 / 166	-	-	1	N
Cadmium	0 / 9	--	--	24 / 275	0.04	16.80	4	**Y**	1 / 164	2.2	2.2	3 / 166	1.1	2.6	**4**	**Y**
Calcium	9 / 9	42,300	244,000	275 / 275	29,500	597,000	N/A	N	164 / 164	31,000	590,000	166 / 166	34,000	650,000	N/A	N
Chromium	9 / 9	0.86	1.9	109 / 275	0.11	96.80	70	**Y**	14 / 164	1.1	100	23 / 166	1	29	**70**	**Y**
Cobalt	0 / 9	--	--	79 / 275	0.04	6.60	100	N	2 / 164	1.5	2	3 / 166	2.6	5.5	100	N
Copper	9 / 9	0.46	2.4	203 / 274	0.36	123	1,300	N	56 / 164	1	130	78 / 166	1	180	1,300	N
Cyanide	9 / 9	12.4	29.5	28 / 275	1.00	29.50	100	N	Not Sampled			Not Sampled			100	N
Iron	8 / 9	11.9	77.7	85 / 275	11.00	8,520	300	**Y**	55 / 164	20	5,400	52 / 166	20	9,000	**300**	**Y**
Lead	6 / 9	1.3	4.7	249 / 275	0.25	32.90	5	**Y**	77 / 164	1	10	116 / 166	1	15	**5**	**Y**
Magnesium	9 / 9	23,600	76,100	275 / 275	1,160	135,000	N/A	N	164 / 164	4,300	110,000	166 / 166	5,700	110,000	N/A	N
Manganese	9 / 9	0.77	313	256 / 275	0.18	2,020	50	**Y**	138 / 164	1	1,500	138 / 166	1.1	1,600	**50**	**Y**
Mercury	0 / 0	--	--	18 / 266	0.05	0.12	2	N	0	0	0	0 / 166	-	-	2	N
Nickel	9 / 9	1.1	4.7	208 / 256	0.19	18.35	100	N	39 / 164	1.1	57	38 / 166	1	38	100	N
Potassium	9 / 9	1,500	3,080	179 / 275	791	27,800	N/A	N	164 / 164	530	7,700	166 / 166	490	8,800	N/A	N
Selenium	0 / 9	--	--	49 / 275	0.16	2.20	40	N	1 / 164	2	2	1 / 166	2.1	2.1	40	N
Silver	0 / 9	--	--	12 / 275	0.02	0.12	40	N	0 / 164	-	-	0 / 166	-	-	40	N
Sodium	9 / 9	14,900	63,600	275 / 275	8,450	691,000	50,000	N	164 / 164	7,500	270,000	166 / 166	8,700	200,000	50,000	N
Vanadium	9 / 9	5.1	13	226 / 275	1.30	30.10	N/A	N	159 / 164	1.1	24	160 / 166	1.3	22	N/A	N
Zinc	9 / 9	5.2	35.1	275 / 275	2.50	187	2,000	N	133 / 164	2	140	154 / 166	2.1	98	2,000	N

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW02A-SH	CDE-OU3-BLSR1-MW03-SH	CDE-OU3-BLSR1-MW04-SH	CDE-OU3-BLSR1-MW05-SH	CDE-OU3-BLSR1-MW07-SH	CDE-OU3-BLSR1-DUP-01	CDE-OU3-BLSR1-MW08-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04	MW-05	MW-07	MW-07	MW-08
DEPTH (FT)		24-49	24-49	17-32	29-49	25-45.5	43-58	43-58	42-57.5
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/20/2016	12/21/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016	12/22/2016
1,1,1-Trichloroethane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
1,1,2-Trichloroethane	3	5 U	5 U	100 U	50 U	5 U	5.8 J	50 U	10 J
1,1-Dichloroethane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
1,1-Dichloroethene	1	5 U	5 U	100 U	50 U	5 U	7.2 J	50 U	50 U
1,2,3-Trichlorobenzene	N/A	1.3 J	5 U	44 J	50 U	0.95 J	21 J	21 J	13 J
1,2,4-Trichlorobenzene	9	3.2 J	5 U	180	23 J	3.7 J	69	68	50
1,2-Dichlorobenzene	N/A	5 U	5 U	100 U	50 U	5 U	15 J	50 U	50 U
1,2-Dichloroethane	2	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
1,2-Dichloropropane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
1,3-Dichlorobenzene	N/A	5 U	5 U	100 U	50 U	5 U	14 J	50 U	50 U
1,4-Dichlorobenzene	75	5 U	5 U	100 U	50 U	5 U	21 J	50 U	50 U
2-Hexanone	N/A	10 U	10 U	200 U	100 U	10 U	50 U	100 U	100 U
Benzene	1	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Bromodichloromethane	1	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Carbon tetrachloride	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Chlorobenzene	50	5 U	5 U	100 U	50 U	5 U	40	40 J	50 U
Chloroform	70	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
cis-1,2-Dichloroethene	70	810	3.6 J	9500	8800	6.5	2300	2300	9100
cis-1,3-Dichloropropene	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Cyclohexane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Dichlorodifluoromethane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Methyl tert-butyl ether	70	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Methylcyclohexane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Methylene chloride	3	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Tetrachloroethene	1	5 U	5 U	100 U	50 U	5.4	25 U	50 U	50 U
Toluene	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
trans-1,2-Dichloroethene	100	5.4	5 U	36 J	33 J	5 U	7.1 J	50 U	35 J
trans-1,3-Dichloropropene	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Trichloroethene	1	330	1.1 J	22000	6800	23	4600	4500	5100
Trichlorofluoromethane	N/A	5 U	5 U	100 U	50 U	5 U	25 U	50 U	50 U
Vinyl chloride	1	61	5 U	100 U	50 U	5 U	430	450	110

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW09-SH	CDE-OU3-BLSR1-MW10-SH	CDE-OU3-BLSR1-MW11-SH	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT1-1	CDE-OU3-BLSR1-ERT1-2	CDE-OU3-BLSR1-ERT1-3	CDE-OU3-BLSR1-ERT1-3-RS
LOCATION (WELL ID)		MW-09	MW-10	MW-11	MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-3
DEPTH (FT)		29-54	37-52	34-59	35-60	24-29	33-43	46-56	46-56
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/21/2016	12/21/2016	12/20/2016	12/20/2016	12/29/2016	12/29/2016	12/29/2016	1/4/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
1,1,2-Trichloroethane	3	5 U	5 U	500 U	28 J	5 U	5 U	#N/A	5 U
1,1-Dichloroethane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
1,1-Dichloroethene	1	5 U	5 U	130 J	100 U	5 U	5 U	#N/A	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	500 U	350	5 U	5 U	#N/A	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	500 U	1300	5 U	5 U	#N/A	5 U
1,2-Dichlorobenzene	N/A	3 J	5 U	500 U	61 J	5 U	5 U	#N/A	5 U
1,2-Dichloroethane	2	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
1,2-Dichloropropane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
1,3-Dichlorobenzene	N/A	3.4 J	5 U	500 U	70 J	5 U	5 U	#N/A	5 U
1,4-Dichlorobenzene	75	37	5 U	500 U	130	5 U	5 U	#N/A	5 U
2-Hexanone	N/A	10 U	10 U	1000 U	200 U	10 U	10 U	#N/A	10 U
Benzene	1	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Bromodichloromethane	1	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Carbon tetrachloride	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Chlorobenzene	50	50	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Chloroform	70	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
cis-1,2-Dichloroethene	70	7.8	5 U	72000	14000	0.71 J	5 U	#N/A	5 U
cis-1,3-Dichloropropene	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Cyclohexane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Dichlorodifluoromethane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Methyl tert-butyl ether	70	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Methylcyclohexane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Methylene chloride	3	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Tetrachloroethene	1	130	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Toluene	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	290 J	52 J	5 U	5 U	#N/A	5 U
trans-1,3-Dichloropropene	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Trichloroethene	1	76	1 J	39000	12000	1.7 J	1.2 J	#N/A	1.2 J
Trichlorofluoromethane	N/A	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U
Vinyl chloride	1	5 U	5 U	500 U	100 U	5 U	5 U	#N/A	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT1-3-RSD	CDE-OU3-BLSR1-ERT1-4	CDE-OU3-BLSR1-ERT1-5	CDE-OU3-BLSR1-ERT1-6	CDE-OU3-BLSR1-ERT1-7	CDE-OU3-BLSR1-ERT1-8	CDE-OU3-BLSR1-ERT2-1	CDE-OU3-BLSR1-ERT2-2	CDE-OU3-BLSR1-ERT2-4
LOCATION (WELL ID)		ERT1-3	ERT1-4	ERT1-5	ERT1-6	ERT1-7	ERT1-8	ERT2-1	ERT2-2	ERT2-4
DEPTH (FT)		46-56	59-64	67-77	100-105	112-117	135-140	25-35	40-50	70-75
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/4/2017	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	1/5/2017	1/5/2017	1/5/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	0.62 J
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.99 J	5 U
cis-1,2-Dichloroethene	70	5 U	5 U	0.84 J	0.79 J	5 UJ	2.4 J-	8.1	4.5 J	30
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	3.5 J	3.1 J	20	340	11	2.2 J
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	5 U	5 U	5 U	5 U	5 UJ	5 UJ	1.4 J	1.4 J	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	1.1 J	0.97 J	1.1 J	1.2 J	1.2 J	1.8 J	330	450	300
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 J	4.3 J

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT2-5	CDE-OU3-BLSR1-ERT2-6	CDE-OU3-BLSR1-ERT2-7	CDE-OU3-BLSR1-DUP-04	CDE-OU3-BLSR1-ERT3-1	CDE-OU3-BLSR1-ERT3-2	CDE-OU3-BLSR1-ERT3-3	CDE-OU3-BLSR1-ERT3-5	CDE-OU3-BLSR1-DUP-09	CDE-OU3-BLSR1-ERT3-6
LOCATION (WELL ID)		ERT2-5	ERT2-6	ERT2-7	ERT2-7	ERT3-1	ERT3-2	ERT3-3	ERT3-5	ERT3-5	ERT3-6
DEPTH (FT)		97-107	113-123	127-137	127-137	27-37	55-65	90-105	124-134	124-134	138-148
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	0.92 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	1.4 J	0.61 J	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	5.3 J	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	70	11	190	190	5 U	5 U	59	220	220	370
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	3 J	5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	1.1 J	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	5 U	1.2 J	8.9	9.1	5 U	5 U	1.2 J	4.7 J	4.6 J	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	1.2 J	1.2 J	5 U	5 U	5 U	1.4 J	1.4 J	2.3 J
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	2.2 J	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	370	33	910	920	5 U	1.5 J	190	190	190	93
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	2.1 J	2.2 J	3.6 J	3.1 J	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT4-1	CDE-OU3-BLSR1-DUP-11	CDE-OU3-BLSR1-ERT4-2	CDE-OU3-BLSR1-ERT4-3	CDE-OU3-BLSR1-ERT4-4	CDE-OU3-BLSR1-ERT4-5	CDE-OU3-BLSR1-DUP-10	CDE-OU3-BLSR1-ERT4-6	CDE-OU3-BLSR1-ERT4-7	CDE-OU3-BLSR1-ERT5-1
LOCATION (WELL ID)		ERT4-1	ERT4-1	ERT4-2	ERT4-3	ERT4-4	ERT4-5	ERT4-5	ERT4-6	ERT4-7	ERT5-1
DEPTH (FT)		27-37	27-37	46-56	61-66	83-88	91-106	91-106	111-116	128-138	24-34
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/10/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	17	17	6	2.3 J	67	50	49	53	37	5 U
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	5 U	5 U	5 U	5 U	2.5 J	2.5 J	2.5 J	2.8 J	2.6 J	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	38	38	20	5.4	180	53	50	22	6.9	5 U
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-06	CDE-OU3-BLSR1-ERT5-2	CDE-OU3-BLSR1-ERT5-3	CDE-OU3-BLSR1-ERT5-4	CDE-OU3-BLSR1-ERT5-5	CDE-OU3-BLSR1-ERT5-6	CDE-OU3-BLSR1-ERT6-1	CDE-OU3-BLSR1-ERT6-2	CDE-OU3-BLSR1-ERT6-3	CDE-OU3-BLSR1-ERT6-4
LOCATION (WELL ID)		ERT5-1	ERT5-2	ERT5-3	ERT5-4	ERT5-5	ERT5-6	ERT6-1	ERT6-2	ERT6-3	ERT6-4
DEPTH (FT)		24-34	37-47	50-60	77-87	93-98	120-130	26-36	75-85	93-103	107-117
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/10/2017	1/10/2017	1/10/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/10/2017	1/10/2017	1/11/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	1.3 J	4.9 J	8.9	3.4 J	5.9	3.2 J
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	5 U	5 U	5 U	5 U	5 U	1.3 J	5 U	5 U	5 U	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	5 U	5 U	2.5 J	7.3	15	53	5 U	1.1 J	63	11
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-07	CDE-OU3-BLSR1-ERT6-5	CDE-OU3-BLSR1-ERT7-1	CDE-OU3-BLSR1-ERT7-2	CDE-OU3-BLSR1-ERT7-3	CDE-OU3-BLSR1-ERT7-4	CDE-OU3-BLSR1-ERT7-5	CDE-OU3-BLSR1-ERT8-1	CDE-OU3-BLSR1-ERT8-2	CDE-OU3-BLSR1-ERT8-3
LOCATION (WELL ID)		ERT6-4	ERT6-5	ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3
DEPTH (FT)		107-117	128-138	25-35	45-55	65-75	100-110	130-140	17-27	31-41	44-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/11/2017	1/10/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/24/2017	1/24/2017	1/24/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	0.3 U	0.3 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.018 J	0.053 J	0.027 J
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.64	1.2	0.14 J
cis-1,2-Dichloroethene	70	3.5 J	5 U	5 U	5 U	5 U	2.4 J	21	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5.1	0.3 U	0.3 U	0.3 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	11	5 U	5 U	5 U	1.2 J	22	78	0.3 U	0.3 U	0.3 U
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	0.3 U	0.3 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT8-5	CDE-OU3-BLSR1-ERT8-6	CDE-OU3-BLSR1-ERT8-7	CDE-OU3-BLSR1-MW13-1	CDE-OU3-BLSR1-DUP-05	CDE-OU3-BLSR1-MW13-2	CDE-OU3-BLSR1-MW13-3	CDE-OU3-BLSR1-MW13-4	CDE-OU3-BLSR1-MW13-5
LOCATION (WELL ID)		ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-1	MW-13-2	MW-13-3	MW-13-4	MW-13-5
DEPTH (FT)		87-97	107-112	135-145	18-28	18-28	35-45	63-73	95-105	115-125
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/24/2017	1/24/2017	1/24/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.5 U	0.5 U	5 U	0.63 J	5 U	0.57 J	0.69 J	5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	0.5 U	0.5 U	0.5 U	5 U	1.8 J	5 U	2 J	1.9 J	2.1 J
1,1-Dichloroethene	1	0.5 U	0.5 U	0.5 U	1.9 J	11	5 U	12	11	14
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	N/A	5 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	0.3 U	0.043 J	0.3 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	0.3 U	0.3 U	0.3 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	0.5 U	0.5 U	0.12 J	5 U	1.1 J	5 U	1 J	1.1 J	1.1 J
cis-1,2-Dichloroethene	70	0.5 U	0.5 U	0.5 U	43	230	150	240	230	220
cis-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	0.5 U	0.5 U	0.5 U	5 U	7.2	2.4 J	7	7.4	6.8
Methylcyclohexane	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	0.3 U	0.3 U	0.3 U	5 U	1.5 J	5 U	1.4 J	1.6 J	1.6 J
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.69 J	5 U	0.95 J	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	0.3 U	0.3 U	0.64	13	130	64	140	130	150
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	0.3 U	0.3 U	0.3 U	5 U	1.5 J	5 U	1.8 J	1.6 J	2.5 J

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW13-6	CDE-OU3-BLSR1-MW13-7	CDE-OU3-BLSR1-MW14S-2	CDE-OU3-BLSR1-MW14S-2-RS	CDE-OU3-BLSR1-MW14S-3	CDE-OU3-BLSR1-MW14S-3-RS	CDE-OU3-BLSR1-MW14D-1	CDE-OU3-BLSR1-MW14D-1-RS
LOCATION (WELL ID)		MW-13-6	MW-13-7	MW-14S-2	MW-14S-2	MW-14S-3	MW-14S-3	MW-14D-1	MW-14D-1
DEPTH (FT)		150-160	230-240	41-46	41-46	55-60	55-60	80-85	80-85
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/6/2017	1/6/2017	12/27/2016	1/4/2017	12/27/2016	1/4/2017	12/27/2016	1/4/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
1,1,2-Trichloroethane	3	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
1,1-Dichloroethane	N/A	2 J	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
1,1-Dichloroethene	1	14	6.5	2500 U	#N/A	500 U	#N/A	2.3 J	#N/A
1,2,3-Trichlorobenzene	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	16	#N/A
1,2,4-Trichlorobenzene	9	5 U	5 U	2500 U	#N/A	230 J	#N/A	72	#N/A
1,2-Dichlorobenzene	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	20	#N/A
1,2-Dichloroethane	2	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
1,2-Dichloropropane	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
1,3-Dichlorobenzene	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	110	#N/A
1,4-Dichlorobenzene	75	5 U	5 U	2500 U	#N/A	500 U	#N/A	130	#N/A
2-Hexanone	N/A	10 U	10 U	5000 U	#N/A	1000 U	#N/A	10 U	#N/A
Benzene	1	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Bromodichloromethane	1	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Carbon tetrachloride	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Chlorobenzene	50	5 U	5 U	2500 U	#N/A	500 U	#N/A	290	#N/A
Chloroform	70	0.88 J	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
cis-1,2-Dichloroethene	70	160	86	200000	#N/A	120000	#N/A	1000	#N/A
cis-1,3-Dichloropropene	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Cyclohexane	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Dichlorodifluoromethane	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Methyl tert-butyl ether	70	8.5	10	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Methylcyclohexane	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	1.6 J	#N/A
Methylene chloride	3	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Tetrachloroethene	1	1.8 J	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Toluene	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
trans-1,2-Dichloroethene	100	5 U	5 U	850 J	#N/A	480 J	#N/A	4.4 J	#N/A
trans-1,3-Dichloropropene	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Trichloroethene	1	150	83	200000	#N/A	86000	#N/A	270	#N/A
Trichlorofluoromethane	N/A	5 U	5 U	2500 U	#N/A	500 U	#N/A	5 U	#N/A
Vinyl chloride	1	0.94 J	5 U	970 J	#N/A	470 J	#N/A	61	#N/A

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW14D-2	CDE-OU3-BLSR1-MW14D-2-RS	CDE-OU3-BLSR1-DUP-02	CDE-OU3-BLSR1-DUP-02-RS	CDE-OU3-BLSR1-MW14D-3	CDE-OU3-BLSR1-MW14D-3-RS	CDE-OU3-BLSR1-MW15S-1	CDE-OU3-BLSR1-MW15S-2
LOCATION (WELL ID)		MW-14D-2	MW-14D-2	MW-14D-2	MW-14D-2	MW-14D-3	MW-14D-3	MW-15S-1	MW-15S-2
DEPTH (FT)		123-133	123-133	123-133	123-133	199-209	199-209	30-40	70-80
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/27/2016	1/4/2017	12/27/2016	1/4/2017	12/27/2016	1/4/2017	12/22/2016	12/22/2016
1,1,1-Trichloroethane	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
1,1,2-Trichloroethane	3	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
1,1-Dichloroethane	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
1,1-Dichloroethene	1	1.9 J	#N/A	5 U	#N/A	1.9 J	#N/A	50 U	5 U
1,2,3-Trichlorobenzene	N/A	42	#N/A	45	#N/A	13	#N/A	13 J	5 U
1,2,4-Trichlorobenzene	9	110	#N/A	110	#N/A	51	#N/A	55	5 U
1,2-Dichlorobenzene	N/A	17	#N/A	18	#N/A	7.6	#N/A	50 U	5 U
1,2-Dichloroethane	2	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
1,2-Dichloropropane	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
1,3-Dichlorobenzene	N/A	91	#N/A	91	#N/A	46	#N/A	50 U	5 U
1,4-Dichlorobenzene	75	150	#N/A	160	#N/A	51	#N/A	50 U	5 U
2-Hexanone	N/A	10 U	#N/A	10 U	#N/A	10 U	#N/A	100 U	10 U
Benzene	1	5 U	#N/A	1.6 J	#N/A	5 U	#N/A	50 U	5 U
Bromodichloromethane	1	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Carbon tetrachloride	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Chlorobenzene	50	390	#N/A	390	#N/A	240	#N/A	50 U	5 U
Chloroform	70	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
cis-1,2-Dichloroethene	70	110	#N/A	110	#N/A	44	#N/A	2600	48
cis-1,3-Dichloropropene	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Cyclohexane	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Dichlorodifluoromethane	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Methyl tert-butyl ether	70	1.5 J	#N/A	1.5 J	#N/A	5 U	#N/A	50 U	5 U
Methylcyclohexane	N/A	0.69 J	#N/A	0.64 J	#N/A	5 U	#N/A	50 U	5 U
Methylene chloride	3	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Tetrachloroethene	1	5 U	#N/A	1.7 J	#N/A	5 U	#N/A	50 U	15
Toluene	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
trans-1,2-Dichloroethene	100	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	1.3 J
trans-1,3-Dichloropropene	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Trichloroethene	1	29	#N/A	29	#N/A	27	#N/A	7000	110
Trichlorofluoromethane	N/A	5 U	#N/A	5 U	#N/A	5 U	#N/A	50 U	5 U
Vinyl chloride	1	11	#N/A	9.4	#N/A	5 U	#N/A	50 U	34

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW15D-1	CDE-OU3-BLSR1-MW15D-2	CDE-OU3-BLSR1-MW-16-1	CDE-OU3-BLSR1-MW-16-2	CDE-OU3-BLSR1-MW-16-3	CDE-OU3-BLSR1-MW-16-4	CDE-OU3-BLSR1-MW-16-5	CDE-OU3-BLSR1-MW-16-6
LOCATION (WELL ID)		MW-15D-1	MW-15D-2	MW-16-1	MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6
DEPTH (FT)		125-135	185-195	20-30	40-50	85-95	108-118	135-145	170-180
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	1/3/2017	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,1-Dichloroethene	1	5 U	1.6 J	3.7 J	7.7	17 J	9.6 J	50 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	100 U	100 U	100 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
cis-1,2-Dichloroethene	70	7.8	20	430	680	430	830	970	360
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Tetrachloroethene	1	3.3 J	5 U	5 U	5 U	50 U	50 U	50 U	2.9 J
Toluene	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	3.4 J	4.9 J	50 U	50 U	9.7 J	3.4 J
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Trichloroethene	1	2.7 J	26	710	1000	4300	4800	2900	220
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	50 U	50 U	50 U	5 U
Vinyl chloride	1	5 U	5 U	15	21	50 U	50 U	50 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW-16-7	CDE-OU3-BLSR1-MW-16-7-RS	CDE-OU3-BLSR1-FPW-1	CDE-OU3-BLSR1-FPW-2	CDE-OU3-BLSR1-FPW-3	CDE-OU3-BLSR1-FPW-4	CDE-OU3-BLSR1-FPW-5	CDE-OU3-BLSR1-FPW-6	CDE-OU3-BLSR1-DUP-03
LOCATION (WELL ID)		MW-16-7	MW-16-7	FPW-1	FPW-2	FPW-3	FPW-4	FPW-5	FPW-6	FPW-6
DEPTH (FT)		195-205	195-205	31-41	46-51	100-110	125-135	180-190	200-205	200-205
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/28/2016	1/4/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/4/2017	1/4/2017
1,1,1-Trichloroethane	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	#N/A	5 U	1.2 J	50 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	#N/A	2.5 J	18	50 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	6.2	#N/A	3.5 J	60	17 J	5.7	5 U	4.4 J	4.7 J
1,2,3-Trichlorobenzene	N/A	1.5 J	#N/A	5 U	2.7 J	14 J	2.6 J	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	2.5 J	#N/A	5 U	10	46 J	8.4	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
2-Hexanone	N/A	10 U	#N/A	10 U	10 U	100 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	#N/A	5 U	3.1 J	50 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	230	#N/A	1100	880	4400	210	93	69	70
cis-1,3-Dichloropropene	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	3.6 J	#N/A	5 U	5 U	50 U	5.4	11	1.5 J	1.4 J
Methylcyclohexane	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	3.5 J	#N/A	5 U	42	50 U	4.1 J	5 U	1.2 J	5 U
Toluene	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	#N/A	4.6 J	7.5	17 J	1 J	0.95 J	5 U	5 U
trans-1,3-Dichloropropene	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Trichloroethene	1	290	#N/A	5 U	740	7800	340	20	60	62
Trichlorofluoromethane	N/A	5 U	#N/A	5 U	5 U	50 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	#N/A	420	16	190	41	3.9 J	8.6	8.1

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-FPW-7	CDE-OU3-BLSR1-FPW-8	CDE-OU3-BLSR1-FPW-9	CDE-OU3-BLSR1-MW17-1	CDE-OU3-BLSR1-MW17-2	CDE-OU3-BLSR1-MW17-3	CDE-OU3-BLSR1-MW18-1	CDE-OU3-BLSR1-MW18-2	CDE-OU3-BLSR1-MW19-1
LOCATION (WELL ID)		FPW-7	FPW-8	FPW-9	MW-17-1	MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1
DEPTH (FT)		235-245	268-278	300-310	170-180	205-215	235-245	160-170	210-220	65-75
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	1/3/2017	1/3/2017	1/5/2017	1/5/2017	1/5/2017	1/6/2017	1/6/2017	1/19/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.44 J
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5
1,1-Dichloroethene	1	2.8 J	4.1 J	2.3 J	5 U	5 U	2.1 J	5 U	1.1 J	7.4
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	0.83 J	5 U	5 U	0.5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Chloroform	70	5 U	5 U	5 U	0.51 J	0.48 J	0.48 J	5 U	5 U	0.5 U
cis-1,2-Dichloroethene	70	34	70	31	130	250	650	2.6 J	4.2 J	4.7
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Methyl tert-butyl ether	70	5 U	22	5 U	5 U	5 U	5.8	5 U	5 U	0.22 J
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.33 J
Tetrachloroethene	1	5 U	5 U	5 U	2.9 J	2.7 J	1.6 J	5 U	5 U	2
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.22 J
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	1.6 J	3 J	5 U	5 U	0.08 J
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Trichloroethene	1	33	64	30	41	58	1100	62	78	22
Trichlorofluoromethane	N/A	5 U	5 U	5 U	0.63 J	0.74 J	5 U	5 U	5 U	0.27 J
Vinyl chloride	1	5	1.7 J	0.85 J	2.8 J	2.3 J	46	5 U	5 U	0.13 J

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW19-2	CDE-OU3-BLSR1-MW19-3	CDE-OU3-BLSR1-MW19-4	CDE-OU3-BLSR1-MW19-5	CDE-OU3-BLSR1-MW19-6	CDE-OU3-BLSR1-MW19-7	CDE-OU3-BLSR1-DUP-13	CDE-OU3-BLSR1-MW20-1	CDE-OU3-BLSR1-MW20-2
LOCATION (WELL ID)		MW-19-2	MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7	MW-19-7	MW-20-1	MW-20-2
DEPTH (FT)		132-142	200-210	257-267	367-377	480-490	545-555	545-555	25-35	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/11/2017	1/11/2017
1,1,1-Trichloroethane	N/A	0.59	0.43 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,1-Dichloroethane	N/A	0.54	0.54	0.11 J	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,1-Dichloroethene	1	9.8 J+	4.9	0.45 J	0.3 U	0.3 U	0.3 U	0.3 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,2-Dichloropropane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
2-Hexanone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U
Benzene	1	0.5 U	0.5 U	0.057 J	0.5 U	0.3 U	0.5 U	0.5 U	5 U	5 U
Bromodichloromethane	1	0.5 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U	5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Chlorobenzene	50	0.5 U	0.1 J	0.5 U	0.11 J	0.5 U	0.5 U	0.5 U	5 U	5 U
Chloroform	70	0.5 U	0.18 J	0.14 J	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
cis-1,2-Dichloroethene	70	3.4 J+	4.5	1.9	0.81	0.5 U	0.5 U	0.5 U	110	190
cis-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Cyclohexane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Dichlorodifluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Methyl tert-butyl ether	70	0.27 J	0.37 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5 J	5 U
Methylcyclohexane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Methylene chloride	3	0.62	0.35 J	0.29 J	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Tetrachloroethene	1	5	2.3	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U	2.6 J
Toluene	N/A	0.13 J	0.19 J	0.097 J	0.16 J	0.27 J	0.95	0.81	5 U	5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
trans-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Trichloroethene	1	48 J	44 J	9.1	6	0.75	0.3 U	0.3 U	13	350
Trichlorofluoromethane	N/A	0.27 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Vinyl chloride	1	0.5 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW20-3	CDE-OU3-BLSR1-MW20-4	CDE-OU3-BLSR1-MW20-5	CDE-OU3-BLSR1-MW20-6	CDE-OU3-BLSR1-MW20-7	CDE-OU3-BLSR1-MW20-8	CDE-OU3-BLSR1-MW21-1	CDE-OU3-BLSR1-MW21-2	CDE-OU3-BLSR1-MW21-3
LOCATION (WELL ID)		MW-20-3	MW-20-4	MW-20-5	MW-20-6	MW-20-7	MW-20-8	MW-21-1	MW-21-2	MW-21-3
DEPTH (FT)		125-135	175-185	205-215	250-260	297-307	355-365	50-60	87-97	150-160
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/12/2017	1/12/2017	1/11/2017	1/11/2017	1/13/2017	1/13/2017	1/19/2017	1/19/2017	1/24/2017
1,1,1-Trichloroethane	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,1-Dichloroethane	N/A	5 U	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	1	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	1.5 U	1.5 U	2.5 U
1,2,3-Trichlorobenzene	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,2,4-Trichlorobenzene	9	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,2-Dichlorobenzene	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	2	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,2-Dichloropropane	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	75	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
2-Hexanone	N/A	10 U	10 U	10 U	10 U	10 U	10 UJ	25 U	25 U	25 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 UJ	1.5 U	1.5 U	2.5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 UJ	1.5 U	1.5 U	2.5 U
Carbon tetrachloride	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Chlorobenzene	50	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Chloroform	70	5 U	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	70	170 J-	230	200	140	290	45 J-	57	49	53
cis-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Cyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Dichlorodifluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Methyl tert-butyl ether	70	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Methylcyclohexane	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Methylene chloride	3	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Tetrachloroethene	1	2.4 J-	1.3 J-	5 U	1.9 J	4.2 J	5 UJ	1.5 U	1.5 U	2.5 U
Toluene	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	100	5 UJ	5 UJ	5 U	5 U	1.6 J	5 UJ	0.63 J	0.39 J	2.5 U
trans-1,3-Dichloropropene	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Trichloroethene	1	590 J-	360	340	700	1100	280	230	280	300
Trichlorofluoromethane	N/A	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ	2.5 U	2.5 U	2.5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 UJ	0.67 J	2.5 U	2.5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW21-4	CDE-OU3-BLSR1-MW21-5	CDE-OU3-BLSR1-MW21-6	CDE-OU3-BLSR1-MW21-7	CDE-OU3-BLSR1-MW21-8	CDE-OU3-BLSR1-MW22-1	CDE-OU3-BLSR1-MW22-2	CDE-OU3-BLSR1-MW22-3	CDE-OU3-BLSR1-DUP-08
LOCATION (WELL ID)		MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8	MW-22-1	MW-22-2	MW-22-3	MW-22-3
DEPTH (FT)		205-215	260-270	428-438	485-495	505-515	45-55	125-135	210-220	210-220
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/24/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017
1,1,1-Trichloroethane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	1.5 U	1.5 U	0.3 U	0.3 U	0.3 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
2-Hexanone	N/A	25 U	25 U	5 U	5 U	5 U	10 U	10 U	10 U	10 U
Benzene	1	1.5 U	1.5 U	0.3 U	0.019 J	0.3 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	1.5 U	1.5 U	0.3 U	0.3 U	0.3 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Chloroform	70	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	50	51	1	0.46 J	0.6	2.4 J	9.1	130	130
cis-1,3-Dichloropropene	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Cyclohexane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether	70	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	42	5 U	5 U
Methylcyclohexane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	1.5 U	1.5 U	0.3 U	0.3 U	0.3 U	5 U	5 U	5 U	5 U
Toluene	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	2.5 U	0.36 J	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	320	290	17	4.9	7.9	5 U	1.6 J	29	30
Trichlorofluoromethane	N/A	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	2.5 U	2.5 U	0.025 J	0.5 U	0.5 U	5 U	5 U	5 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW22-4	CDE-OU3-BLSR1-MW23-1	CDE-OU3-BLSR1-MW23-2	CDE-OU3-BLSR1-MW23-3	CDE-OU3-BLSR1-MW23-4	CDE-OU3-BLSR1-MW23-5	CDE-OU3-BLSR1-MW23-6	CDE-OU3-BLSR1-MW23-7	CDE-OU3-BLSR1-DUP-12
LOCATION (WELL ID)		MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4	MW-23-5	MW-23-6	MW-23-7	MW-23-7
DEPTH (FT)		305-315	60-70	120-130	170-180	226-236	258-268	316-326	350-360	350-360
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/12/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017
1,1,1-Trichloroethane	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	1.8 J	0.5 U	0.5 U	0.5 U	0.5 U	0.15 J	0.17 J	0.22 J	0.21 J
1,1-Dichloroethene	1	11	0.3 U	0.49 J	0.48 J	0.39 J	0.79	0.6	1.7	1.7
1,2,3-Trichlorobenzene	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	N/A	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	0.3 U	0.014 J	0.5 U	0.5 U	0.5 U	0.088 J	0.5 U	0.5 U
Bromodichloromethane	1	5 U	0.3 U	0.3 U	0.5 U	0.5 U	0.5 U	0.3 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.11 J	0.5 U	0.5 U
Chloroform	70	5 U	0.5 U	0.5 U	0.14 J	0.26 J	0.56	0.56	0.91	0.8
cis-1,2-Dichloroethene	70	240	0.33 J	3.2	13	5.9	8.2	11	12	12
cis-1,3-Dichloropropene	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl tert-butyl ether	70	5 U	0.5 U	0.22 J	0.34 J	0.17 J	0.18 J	0.5 U	0.16 J	0.18 J
Methylcyclohexane	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.89 J	0.25 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	5 U	0.3 U	0.3 U	0.88	0.57	0.58	0.3 U	0.26 J	0.28 J
Toluene	N/A	5 U	0.44 J	0.33 J	0.34 J	0.36 J	0.42 J	0.24 J	0.26 J	0.1 J
trans-1,2-Dichloroethene	100	5 U	0.5 U	0.5 U	0.11 J	0.5 U	0.5 U	0.5 U	0.099 J	0.5 U
trans-1,3-Dichloropropene	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	15	0.34	13	52	22	33	17	40	38
Trichlorofluoromethane	N/A	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	5 U	0.3 U	0.042 J	0.5 U	0.5 U	0.5 U	0.3 U	0.5 U	0.5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW23-8	CDE-OU3-BLSR1-MW23-9	CDE-OU3-BLSR1-MW24-1	CDE-OU3-BLSR1-MW24-2	CDE-OU3-BLSR1-MW24-3	CDE-OU3-BLSR1-MW24-4	CDE-OU3-BLSR1-MW24-5	CDE-OU3-BLSR1-DUP-16	CDE-OU3-BLSR1-MW24-6
LOCATION (WELL ID)		MW-23-8	MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4	MW-24-5	MW-24-5	MW-24-6
DEPTH (FT)		406-416	444-454	85-95	135-145	240-250	332-342	370-380	370-380	455-465
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/18/2017	1/18/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017
1,1,1-Trichloroethane	N/A	0.5 U	2.5 U	0.5 U	0.51	0.5	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.12 J	2.5 U	0.5 U	0.35 J	0.25 J	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	1	0.88	1.5 U	0.3 U	5.5 J-	5.2 J+	1.1 J+	0.2 J	0.2 J	0.3 U
1,2,3-Trichlorobenzene	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	N/A	0.5 U	4.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	N/A	5 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.5 U	1.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.3 U	0.3 U	0.033 J
Bromodichloromethane	1	0.5 U	1.5 U	0.3 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.47 J	2.5 U	0.3 J	0.19 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	11	29	0.5 U	0.86	0.61	0.29 J	0.24 J	0.28 J	0.2 J
cis-1,3-Dichloropropene	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl tert-butyl ether	70	0.5 U	2.5 U	0.5 U	0.17 J	0.31 J	0.5 U	0.15 J	0.16 J	0.5 U
Methylcyclohexane	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.21 J	1.5 U	0.59	5.8	0.29 J	0.3 U	0.3 U	0.3 U	0.3 U
Toluene	N/A	0.14 J	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	N/A	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	27	200	0.3 U	12	3.8	1.7	1.3	1.4	3
Trichlorofluoromethane	N/A	0.5 U	2.5 U	0.5 U	0.2 J	0.31 J	0.29 J	0.22 J	0.23 J	0.5 U
Vinyl chloride	1	0.5 U	1.5 U	0.3 U	0.5 U	0.03 J	0.5 U	0.3 U	0.3 U	0.3 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW25-1	CDE-OU3-BLSR1-MW25-2	CDE-OU3-BLSR1-MW25-3	CDE-OU3-BLSR1-MW25-4	CDE-OU3-BLSR1-MW25-5	CDE-OU3-BLSR1-DUP-15	CDE-OU3-BLSR1-MW25-6	CDE-OU3-BLSR1-MW26-1	CDE-OU3-BLSR1-MW26-2
LOCATION (WELL ID)		MW-25-1	MW-25-2	MW-25-3	MW-25-4	MW-25-5	MW-25-5	MW-25-6	MW-26-1	MW-26-2
DEPTH (FT)		85-95	175-185	200-210	275-285	345-355	345-355	435-445	95-105	175-185
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.35 J	0.22 J	0.5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.12 J	0.44 J	0.28 J	0.15 J	0.28 J	0.29 J	1.2	0.67	0.46 J
1,1-Dichloroethene	1	0.28 J	0.99	0.75	0.82	0.5 U	0.67	2.4 J+	1.5	1.3
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.3 U	0.022 J	0.012 J	0.5 U	0.056 J	0.056 J	0.029 J	0.5 U	0.5 U
Bromodichloromethane	1	0.031 J	0.025 J	0.046 J	0.5 U	0.3 U	0.3 U	0.01 J	0.5 U	0.5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.32 J	0.5 U	0.5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.75	1.4	0.97	0.89	1.6	1.6	3.6	1.8	1.5
cis-1,2-Dichloroethene	70	1.5	6.3	4.6	6.5	1.6	1.6	17	10	12
cis-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.15 J	0.5 U	0.5 U
Methyl tert-butyl ether	70	0.5 U	0.5 U	0.5 U	0.17 J	0.5 U	0.5 U	0.19 J	0.5 U	0.5 U
Methylcyclohexane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 U
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	1.3	2.7	2.2	22	1.9	2	7.9	6.2	5.7
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.3 U	0.3 U	0.3 U	0.5 U	0.3 U	0.3 U	0.5 U	0.5 U	0.5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW26-3	CDE-OU3-BLSR1-MW26-4	CDE-OU3-BLSR1-MW26-5	CDE-OU3-BLSR1-DUP-14	CDE-OU3-BLSR1-MW26-6	CDE-OU3-BLSR1-MW27-1	CDE-OU3-BLSR1-MW27-2	CDE-OU3-BLSR1-MW27-3
LOCATION (WELL ID)		MW-26-3	MW-26-4	MW-26-5	MW-26-5	MW-26-6	MW-27-1	MW-27-2	MW-27-3
DEPTH (FT)		255-265	305-320	385-395	385-395	455-465	85-95	180-190	225-235
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/23/2017	1/23/2017	1/23/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 J	0.5 U	0.29 J
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.31 J	0.36 J	0.15 J	0.15 J	0.11 J	0.5	0.16 J	1
1,1-Dichloroethene	1	1.7	1.6	0.76	0.77	0.28 J	1.8	0.91	6.8
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.2 J	0.19 J	0.5 U	0.5 U	0.5 U	0.13 J	0.5 U	0.72
1,2-Dichloropropane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.034 J	0.084 J	0.054 J	0.096 J
Bromodichloromethane	1	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.016 J	0.3 U	0.3 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.52	0.54	0.24 J	0.23 J	0.26 J	2.4	1	1.6
cis-1,2-Dichloroethene	70	4.9	6.2	0.3 J	0.31 J	0.28 J	14	7.8	49
cis-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	0.5 U	0.5 U
Methyl tert-butyl ether	70	0.5 U	0.15 J	0.5 U	0.5 U	0.5 U	0.5 U	0.17 J	0.28 J
Methylcyclohexane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.3 U	0.3 U	0.23 J
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.5	2.8	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.11 J
trans-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	5.4	5.6	1.6	1.4	0.48	6.8	5.2	31
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.3 U	0.3 U	0.3 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-17	CDE-OU3-BLSR1-MW27-4	CDE-OU3-BLSR1-MW27-5
LOCATION (WELL ID)		MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L
SAMPLE DATE		1/23/2017	1/23/2017	1/23/2017
1,1,1-Trichloroethane	N/A	0.32 J	0.2 J	0.5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	1	0.5	0.15 J
1,1-Dichloroethene	1	6.8	2.9	0.67
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.73	0.5 U	0.5 U
1,2-Dichloropropane	N/A	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U
2-Hexanone	N/A	5 U	5 U	5 U
Benzene	1	0.091 J	0.038 J	0.038 J
Bromodichloromethane	1	0.3 U	0.3 U	0.3 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U
Chloroform	70	1.5	1.3	0.32 J
cis-1,2-Dichloroethene	70	54	6.3	0.66
cis-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U
Cyclohexane	N/A	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	N/A	0.11 J	0.1 J	0.5 U
Methyl tert-butyl ether	70	0.3 J	0.5 U	0.5 U
Methylcyclohexane	N/A	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.23 J	0.3 U	0.3 U
Toluene	N/A	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.086 J	0.5 U	0.5 U
trans-1,3-Dichloropropene	N/A	0.5 U	0.5 U	0.5 U
Trichloroethene	1	36	8.9	0.75
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.3 U	0.3 U	0.3 U

Notes:

N/A = Not Applicable; no preliminary remediation goal identified.

The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).

Shading indicates exceedance of Potential Clean up Standard.

MW-06 was not sampled due to well damage.

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW02A-SH	CDE-OU3-BLSR1-MW03-SH	CDE-OU3-BLSR1-MW04-SH	CDE-OU3-BLSR1-MW05-SH	CDE-OU3-BLSR1-MW07-SH	CDE-OU3-BLSR1-DUP-01	CDE-OU3-BLSR1-MW08-SH	CDE-OU3-BLSR1-MW09-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04	MW-05	MW-07	MW-07	MW-08	MW-09
DEPTH (FT)		24-49	24-49	17-32	29-49	25-45.5	43-58	43-58	42-57.5	29-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/20/2016	12/21/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016	12/22/2016	12/21/2016
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U
1,4-Dioxane	N/A	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 UJ
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Anthracene	N/A	5 U	5 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Pyrene	N/A	0.05 U	0.35 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW10-SH	CDE-OU3-BLSR1-MW11-SH	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT1-1	CDE-OU3-BLSR1-ERT1-2	CDE-OU3-BLSR1-ERT1-3	CDE-OU3-BLSR1-ERT1-3-RS	CDE-OU3-BLSR1-ERT1-3-RSD	CDE-OU3-BLSR1-ERT1-4
LOCATION (WELL ID)		MW-10	MW-11	MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-3	ERT1-3	ERT1-4
DEPTH (FT)		37-52	34-59	35-60	24-29	33-43	46-56	46-56	46-56	59-64
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/21/2016	12/20/2016	12/20/2016	12/29/2016	12/29/2016	12/29/2016	1/4/2017	1/4/2017	12/29/2016
1,1'-Biphenyl	N/A	5 U	5 U	1.5 J	5 U	5 U	5 U	#N/A	#N/A	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	0.71 J	5 U	5 U	5 U	#N/A	#N/A	5 U
1,4-Dioxane	N/A	2 UJ	2 U	2 U	2 U	2 U	2 U	#N/A	#N/A	2 U
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	#N/A	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	#N/A	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	#N/A	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	#N/A	#N/A	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	#N/A	#N/A	10 U
Anthracene	N/A	0.05 U	0.05 U	0.032 J	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	5 U	0.03 U	0.03 U	0.03 U	#N/A	#N/A	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	5 U	0.03 U	0.03 U	0.03 U	#N/A	#N/A	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	5 U	1 U	1 U	1 U	#N/A	#N/A	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	#N/A	#N/A	10 U
Chrysene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	#N/A	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.06 J-	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Naphthalene	N/A	0.05 U	0.89	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	#N/A	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.11 J-	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U
Pyrene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	#N/A	#N/A	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT1-5	CDE-OU3-BLSR1-ERT1-6	CDE-OU3-BLSR1-ERT1-7	CDE-OU3-BLSR1-ERT1-8	CDE-OU3-BLSR1-ERT2-1	CDE-OU3-BLSR1-ERT2-2	CDE-OU3-BLSR1-ERT2-4	CDE-OU3-BLSR1-ERT2-5	CDE-OU3-BLSR1-ERT2-6	CDE-OU3-BLSR1-ERT2-7	CDE-OU3-BLSR1-DUP-04
LOCATION (WELL ID)		ERT1-5	ERT1-6	ERT1-7	ERT1-8	ERT2-1	ERT2-2	ERT2-4	ERT2-5	ERT2-6	ERT2-7	ERT2-7
DEPTH (FT)		67-77	100-105	112-117	135-140	25-35	40-50	70-75	97-107	113-123	127-137	127-137
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/29/2016	12/29/2016	12/29/2016	12/29/2016	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
1,4-Dioxane	N/A	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	#N/A
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.038 J	#N/A
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	#N/A
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.03 J	#N/A
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.033 J	#N/A
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	#N/A
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT3-1	CDE-OU3-BLSR1-ERT3-2	CDE-OU3-BLSR1-ERT3-3	CDE-OU3-BLSR1-ERT3-5	CDE-OU3-BLSR1-DUP-09	CDE-OU3-BLSR1-ERT3-6	CDE-OU3-BLSR1-ERT4-1	CDE-OU3-BLSR1-DUP-11	CDE-OU3-BLSR1-ERT4-2	CDE-OU3-BLSR1-ERT4-3	CDE-OU3-BLSR1-ERT4-4
LOCATION (WELL ID)		ERT3-1	ERT3-2	ERT3-3	ERT3-5	ERT3-5	ERT3-6	ERT4-1	ERT4-1	ERT4-2	ERT4-3	ERT4-4
DEPTH (FT)		27-37	55-65	90-105	124-134	124-134	138-148	27-37	27-37	46-56	61-66	83-88
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
1,4-Dioxane	N/A	2 R	2 R	2 UJ	2 UJ	#N/A	2 UJ	2 UJ	#N/A	2 UJ	2 UJ	0.65 J
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	#N/A	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	#N/A	10 U	10 U	10 U
Anthracene	N/A	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	5 U	5 U	#N/A	5 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	5 U	5 U	#N/A	5 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	5 U	5 U	#N/A	5 U	1 U	#N/A	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	#N/A	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	#N/A	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	10 U	10 U	#N/A	10 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.017 J	0.019 J	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	10 U	10 U	#N/A	10 U	0.1 U	#N/A	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	5 U	5 U	#N/A	5 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT4-5	CDE-OU3-BLSR1-DUP-10	CDE-OU3-BLSR1-ERT4-6	CDE-OU3-BLSR1-ERT4-7	CDE-OU3-BLSR1-ERT5-1	CDE-OU3-BLSR1-DUP-06	CDE-OU3-BLSR1-ERT5-2	CDE-OU3-BLSR1-ERT5-3	CDE-OU3-BLSR1-ERT5-4	CDE-OU3-BLSR1-ERT5-5	CDE-OU3-BLSR1-ERT5-6
LOCATION (WELL ID)		ERT4-5	ERT4-5	ERT4-6	ERT4-7	ERT5-1	ERT5-1	ERT5-2	ERT5-3	ERT5-4	ERT5-5	ERT5-6
DEPTH (FT)		91-106	91-106	111-116	128-138	24-34	24-34	37-47	50-60	77-87	93-98	120-130
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/10/2017	1/10/2017	1/10/2017	1/10/2017	1/11/2017	1/11/2017	1/11/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	0.57 J	0.76 J	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	0.05 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	5 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	5 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.018 J	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	10 U	0.1 U	0.1 U	0.017 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT6-1	CDE-OU3-BLSR1-ERT6-2	CDE-OU3-BLSR1-ERT6-3	CDE-OU3-BLSR1-ERT6-4	CDE-OU3-BLSR1-DUP-07	CDE-OU3-BLSR1-ERT6-5	CDE-OU3-BLSR1-ERT7-1	CDE-OU3-BLSR1-ERT7-2	CDE-OU3-BLSR1-ERT7-3	CDE-OU3-BLSR1-ERT7-4	CDE-OU3-BLSR1-ERT7-5
LOCATION (WELL ID)		ERT6-1	ERT6-2	ERT6-3	ERT6-4	ERT6-4	ERT6-5	ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5
DEPTH (FT)		26-36	75-85	93-103	107-117	107-117	128-138	25-35	45-55	65-75	100-110	130-140
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/11/2017	1/10/2017	1/10/2017	1/11/2017	1/11/2017	1/10/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 UJ	2 UJ	2 UJ	2 UJ	#N/A	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 UJ
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	#N/A	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U	5.2 J
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.019 J	0.017 J	0.018 J
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT8-1	CDE-OU3-BLSR1-ERT8-2	CDE-OU3-BLSR1-ERT8-3	CDE-OU3-BLSR1-ERT8-5	CDE-OU3-BLSR1-ERT8-6	CDE-OU3-BLSR1-ERT8-7	CDE-OU3-BLSR1-MW13-1	CDE-OU3-BLSR1-DUP-05	CDE-OU3-BLSR1-MW13-2	CDE-OU3-BLSR1-MW13-3	CDE-OU3-BLSR1-MW13-4
LOCATION (WELL ID)		ERT8-1	ERT8-2	ERT8-3	ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-1	MW-13-2	MW-13-3	MW-13-4
DEPTH (FT)		17-27	31-41	44-54	87-97	107-112	135-145	18-28	18-28	35-45	63-73	95-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/24/2017	1/24/2017	1/24/2017	1/24/2017	1/24/2017	1/24/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U	3.2	1.2 J	2.7	2.3 J-
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.05 U	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	5 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	5 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	0.46 J	1 U	5 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	1.4 J	10 U	10 U	10 U	0.81 J	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.015 J	0.05 U	10 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	0.1 U	10 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	5 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW13-5	CDE-OU3-BLSR1-MW13-6	CDE-OU3-BLSR1-MW13-7	CDE-OU3-BLSR1-MW14S-2	CDE-OU3-BLSR1-MW14S-2-RS	CDE-OU3-BLSR1-MW14S-3	CDE-OU3-BLSR1-MW14S-3-RS	CDE-OU3-BLSR1-MW14D-1	CDE-OU3-BLSR1-MW14D-1-RS
LOCATION (WELL ID)		MW-13-5	MW-13-6	MW-13-7	MW-14S-2	MW-14S-2	MW-14S-3	MW-14S-3	MW-14D-1	MW-14D-1
DEPTH (FT)		115-125	150-160	230-240	41-46	41-46	55-60	55-60	80-85	80-85
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/6/2017	1/6/2017	1/6/2017	12/27/2016	1/4/2017	12/27/2016	1/4/2017	12/27/2016	1/4/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	1.4 J	#N/A	0.96 J	#N/A	5 U	#N/A
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	#N/A	5 U	#N/A
1,4-Dioxane	N/A	3.5	3.4	1.6 J	2 U	#N/A	2 U	#N/A	2 U	#N/A
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	#N/A	5 U	#N/A
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	#N/A	5 U	#N/A
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	#N/A	5 U	#N/A
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	#N/A	10 U	#N/A
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	#N/A	10 U	#N/A
Anthracene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	#N/A	5 U	#N/A
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	#N/A	0.03 U	#N/A
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	#N/A	0.03 U	#N/A
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	#N/A	0.55 J	#N/A	1 U	#N/A
Caprolactam	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	#N/A	10 U	#N/A
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	#N/A	5 U	#N/A
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	5.3	#N/A	0.97	#N/A	0.05 U	#N/A
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U	#N/A	0.1 U	#N/A
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW14D-2	CDE-OU3-BLSR1-MW14D-2-RS	CDE-OU3-BLSR1-DUP-02	CDE-OU3-BLSR1-DUP-02-RS	CDE-OU3-BLSR1-MW14D-3	CDE-OU3-BLSR1-MW14D-3-RS	CDE-OU3-BLSR1-MW15S-1	CDE-OU3-BLSR1-MW15S-2	CDE-OU3-BLSR1-MW15D-1
LOCATION (WELL ID)		MW-14D-2	MW-14D-2	MW-14D-2	MW-14D-2	MW-14D-3	MW-14D-3	MW-15S-1	MW-15S-2	MW-15D-1
DEPTH (FT)		123-133	123-133	123-133	123-133	199-209	199-209	30-40	70-80	125-135
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/27/2016	1/4/2017	12/27/2016	1/4/2017	12/27/2016	1/4/2017	12/22/2016	12/22/2016	1/3/2017
1,1'-Biphenyl	N/A	1.1 J	#N/A	1 J	#N/A	5 U	#N/A	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	#N/A	2.5 U	#N/A	5 U	#N/A	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	#N/A	1 UJ	#N/A	2 UJ	#N/A	2 U	2 U	2 UJ
2,6-Dinitrotoluene	N/A	5 U	#N/A	2.5 U	#N/A	5 U	#N/A	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	#N/A	2.5 U	#N/A	5 U	#N/A	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	#N/A	2.5 U	#N/A	5 U	#N/A	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	#N/A	5 U	#N/A	10 U	#N/A	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	#N/A	5 U	#N/A	10 U	#N/A	10 U	10 U	10 U
Anthracene	N/A	5 U	#N/A	2.5 UJ	#N/A	5 U	#N/A	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	#N/A	2.5 U	#N/A	0.03 U	#N/A	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	#N/A	2.5 U	#N/A	0.03 U	#N/A	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	#N/A	0.72 J	#N/A	1 U	#N/A	1 U	1 U	1 U
Caprolactam	N/A	2.2 J	#N/A	0.94 J	#N/A	10 U	#N/A	10 U	10 U	10 U
Chrysene	N/A	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	1.7 J	#N/A	2.5 U	#N/A	5 U	#N/A	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	#N/A	5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	#N/A	5 U	#N/A	0.1 U	#N/A	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	#N/A	0.05 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	#N/A	2.5 U	#N/A	0.05 U	#N/A	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW15D-2	CDE-OU3-BLSR1-MW-16-1	CDE-OU3-BLSR1-MW-16-2	CDE-OU3-BLSR1-MW-16-3	CDE-OU3-BLSR1-MW-16-4	CDE-OU3-BLSR1-MW-16-5	CDE-OU3-BLSR1-MW-16-6	CDE-OU3-BLSR1-MW-16-7	CDE-OU3-BLSR1-MW-16-7-RS	CDE-OU3-BLSR1-FPW-1
LOCATION (WELL ID)		MW-15D-2	MW-16-1	MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6	MW-16-7	MW-16-7	FPW-1
DEPTH (FT)		185-195	20-30	40-50	85-95	108-118	135-145	170-180	195-205	195-205	31-41
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	1/4/2017	1/3/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
1,4-Dioxane	N/A	2 UJ	2 U	2 U	2 U	2 U	2 U	2 UJ	1.6 J	#N/A	1.2 J
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	#N/A	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	1.5 J	1.5 J	0.55 J	#N/A	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	0.56 J	5 U	5 U	5 U	5 U	5 U	#N/A	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-FPW-2	CDE-OU3-BLSR1-FPW-3	CDE-OU3-BLSR1-FPW-4	CDE-OU3-BLSR1-FPW-5	CDE-OU3-BLSR1-FPW-6	CDE-OU3-BLSR1-DUP-03	CDE-OU3-BLSR1-FPW-7	CDE-OU3-BLSR1-FPW-8	CDE-OU3-BLSR1-FPW-9	CDE-OU3-BLSR1-MW17-1	CDE-OU3-BLSR1-MW17-2
LOCATION (WELL ID)		FPW-2	FPW-3	FPW-4	FPW-5	FPW-6	FPW-6	FPW-7	FPW-8	FPW-9	MW-17-1	MW-17-2
DEPTH (FT)		46-51	100-110	125-135	180-190	200-205	200-205	235-245	268-278	300-310	170-180	205-215
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/4/2017	1/4/2017	1/3/2017	1/3/2017	1/3/2017	1/5/2017	1/5/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	5.4	2 U	1.6 J	0.94 J	0.94 J	#N/A	0.65 J	0.82 J	2 U	2 UJ	2 U
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	0.05 U	0.05 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	#N/A	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW17-3	CDE-OU3-BLSR1-MW18-1	CDE-OU3-BLSR1-MW18-2	CDE-OU3-BLSR1-MW19-1	CDE-OU3-BLSR1-MW19-2	CDE-OU3-BLSR1-MW19-3	CDE-OU3-BLSR1-MW19-4	CDE-OU3-BLSR1-MW19-5	CDE-OU3-BLSR1-MW19-6	CDE-OU3-BLSR1-MW19-7
LOCATION (WELL ID)		MW-17-3	MW-18-1	MW-18-2	MW-19-1	MW-19-2	MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7
DEPTH (FT)		235-245	160-170	210-220	65-75	132-142	200-210	257-267	367-377	480-490	545-555
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/5/2017	1/6/2017	1/6/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 U	2 U	0.76 J	0.89 J	0.94 J	2 UJ	2 UJ	2 UJ	2 UJ
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	2.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.017 J	0.05 U
Pentachlorophenol	N/A	0.1 U	10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-13	CDE-OU3-BLSR1-MW20-1	CDE-OU3-BLSR1-MW20-2	CDE-OU3-BLSR1-MW20-3	CDE-OU3-BLSR1-MW20-4	CDE-OU3-BLSR1-MW20-5	CDE-OU3-BLSR1-MW20-6	CDE-OU3-BLSR1-MW20-7	CDE-OU3-BLSR1-MW20-8	CDE-OU3-BLSR1-MW21-1
LOCATION (WELL ID)		MW-19-7	MW-20-1	MW-20-2	MW-20-3	MW-20-4	MW-20-5	MW-20-6	MW-20-7	MW-20-8	MW-21-1
DEPTH (FT)		545-555	25-35	85-95	125-135	175-185	205-215	250-260	297-307	355-365	50-60
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/11/2017	1/11/2017	1/12/2017	1/12/2017	1/11/2017	1/11/2017	1/13/2017	1/13/2017	1/19/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 UJ	2 UJ	2 UJ	2 U	2 U	2 UJ	2 UJ	2 U	2 U	2 UJ
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.034	5 U	0.03 UJ	0.03 U	5 U	5 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.029 J	5 U	0.03 UJ	0.03 U	5 U	5 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.036 J	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	5 U	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	5 U	5 U	1 UJ	1 U	5 U	5 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.03 J	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	5 U	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.068	10 U	0.05 UJ	0.05 U	10 U	10 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	5 U	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U
Naphthalene	N/A	0.05 U	0.019 J	0.05 U	5 U	5 U	0.05 UJ	0.05 U	0.017 J	5 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	10 U	10 U	0.1 UJ	0.1 U	10 U	10 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.062	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.075	5 U	0.05 UJ	0.05 U	5 U	5 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW21-2	CDE-OU3-BLSR1-MW21-3	CDE-OU3-BLSR1-MW21-4	CDE-OU3-BLSR1-MW21-5	CDE-OU3-BLSR1-MW21-6	CDE-OU3-BLSR1-MW21-7	CDE-OU3-BLSR1-MW21-8	CDE-OU3-BLSR1-MW22-1	CDE-OU3-BLSR1-MW22-2	CDE-OU3-BLSR1-MW22-3
LOCATION (WELL ID)		MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8	MW-22-1	MW-22-2	MW-22-3
DEPTH (FT)		87-97	150-160	205-215	260-270	428-438	485-495	505-515	45-55	125-135	210-220
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/24/2017	1/24/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017	1/12/2017	1/12/2017	1/12/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 UJ	2 U	2 UJ	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	1 J
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	5 U	5 U	5 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	5 U	5 U	5 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	10 U	10 U	10 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	5 U	5 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-08	CDE-OU3-BLSR1-MW22-4	CDE-OU3-BLSR1-MW23-1	CDE-OU3-BLSR1-MW23-2	CDE-OU3-BLSR1-MW23-3	CDE-OU3-BLSR1-MW23-4	CDE-OU3-BLSR1-MW23-5	CDE-OU3-BLSR1-MW23-6	CDE-OU3-BLSR1-MW23-7	CDE-OU3-BLSR1-DUP-12
LOCATION (WELL ID)		MW-22-3	MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4	MW-23-5	MW-23-6	MW-23-7	MW-23-7
DEPTH (FT)		210-220	305-315	60-70	120-130	170-180	226-236	258-268	316-326	350-360	350-360
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/12/2017	1/12/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
1,4-Dioxane	N/A	0.95 J	2 R	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	#N/A
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A
Anthracene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
Benzo(a)anthracene	0.1	5 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A
Benzo(a)pyrene	0.1	5 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A
Benzo(b)fluoranthene	0.2	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Benzo(g,h,i)perylene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Bis(2-ethylhexyl)phthalate	3	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	#N/A
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	#N/A
Chrysene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Dibenzo(a,h)anthracene	0.3	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	#N/A
Fluoranthene	N/A	10 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	#N/A
Indeno(1,2,3-cd)pyrene	0.2	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Naphthalene	N/A	0.017 J	0.017 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A
Pentachlorophenol	N/A	10 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	#N/A
Phenanthrene	N/A	5 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	#N/A
Pyrene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW23-8	CDE-OU3-BLSR1-MW23-9	CDE-OU3-BLSR1-MW24-1	CDE-OU3-BLSR1-MW24-2	CDE-OU3-BLSR1-MW24-3	CDE-OU3-BLSR1-MW24-4	CDE-OU3-BLSR1-MW24-5	CDE-OU3-BLSR1-DUP-16	CDE-OU3-BLSR1-MW24-6	CDE-OU3-BLSR1-MW25-1
LOCATION (WELL ID)		MW-23-8	MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4	MW-24-5	MW-24-5	MW-24-6	MW-25-1
DEPTH (FT)		406-416	444-454	85-95	135-145	240-250	332-342	370-380	370-380	455-465	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/18/2017	1/18/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/20/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 UJ	2 UJ	2 U	0.99 J	0.65 J	2 U	2 UJ	2 UJ	2 UJ	2 U
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	5 U	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	0.75 J	10 U	10 U	0.74 J	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW25-2	CDE-OU3-BLSR1-MW25-3	CDE-OU3-BLSR1-MW25-4	CDE-OU3-BLSR1-MW25-5	CDE-OU3-BLSR1-DUP-15	CDE-OU3-BLSR1-MW25-6	CDE-OU3-BLSR1-MW26-1	CDE-OU3-BLSR1-MW26-2	CDE-OU3-BLSR1-MW26-3	CDE-OU3-BLSR1-MW26-4
LOCATION (WELL ID)		MW-25-2	MW-25-3	MW-25-4	MW-25-5	MW-25-5	MW-25-6	MW-26-1	MW-26-2	MW-26-3	MW-26-4
DEPTH (FT)		175-185	200-210	275-285	345-355	345-355	435-445	95-105	175-185	255-265	305-320
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 UJ	2 UJ	2 UJ	#N/A	0.6 J	2 UJ	2 UJ	2 UJ	2 UJ
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
2-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	10 U	10 U	10 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	#N/A	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	#N/A	10 U	10 U	1.2 J	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	#N/A	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW26-5	CDE-OU3-BLSR1-DUP-14	CDE-OU3-BLSR1-MW26-6	CDE-OU3-BLSR1-MW27-1	CDE-OU3-BLSR1-MW27-2	CDE-OU3-BLSR1-MW27-3	CDE-OU3-BLSR1-DUP-17	CDE-OU3-BLSR1-MW27-4	CDE-OU3-BLSR1-MW27-5
LOCATION (WELL ID)		MW-26-5	MW-26-5	MW-26-6	MW-27-1	MW-27-2	MW-27-3	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		385-395	385-395	455-465	85-95	180-190	225-235	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	0.66 J	2 U	0.97 J	#N/A	2 UJ	2 UJ
1,2,4,5-Tetrachlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U
1,4-Dioxane	N/A	2 UJ	2 UJ	2 UJ	5 U	5 U	5 U	#N/A	5 U	5 U
2,6-Dinitrotoluene	N/A	5 U	5 U	5 U	6 NJ	4.7 NJ	0.53 NJ	#N/A	4.7 NJ	8.6 NJ
2-Chloronaphthalene	N/A	5 U	5 U	5 U	16 NJ	12 NJ	0.92 NJ	#N/A	9.7 NJ	16 NJ
2-Chlorophenol	N/A	5 U	5 U	5 U	26 NJ	24 NJ	18 NJ	#N/A	17 NJ	23 NJ
2-Methylphenol	N/A	10 U	10 U	10 U	15 NJ	19 NJ	#N/A	#N/A	8.5 NJ	12 NJ
3-Methylphenol + 4-Methylphenol	N/A	10 U	10 U	10 U	2.5 NJ	#N/A	#N/A	#N/A	#N/A	#N/A
Anthracene	N/A	0.05 U	5 U	0.05 U	1 U	1 U	1 U	#N/A	1 U	1 U
Benzo(a)anthracene	0.1	5 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U
Benzo(a)pyrene	0.1	5 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	#N/A	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	5 U	1 U	1 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Caprolactam	N/A	10 U	10 U	1.3 J	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Chrysene	N/A	5 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U	0.1 U
Dibenzo(a,h)anthracene	0.3	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	#N/A	5 U	5 U
Fluoranthene	N/A	10 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Naphthalene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Pentachlorophenol	N/A	10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	#N/A	0.1 U	0.1 U
Phenanthrene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U
Pyrene	N/A	5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	#N/A	0.05 U	0.05 U

Notes:

N/A = Not Applicable; no preliminary remediation goal identified.

The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).

Shading indicates exceedance of Potential Clean up Standard.

MW-06 was not sampled due to well damage.

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW02A-SH	CDE-OU3-BLSR1-MW03-SH	CDE-OU3-BLSR1-MW04-SH	CDE-OU3-BLSR1-MW05-SH	CDE-OU3-BLSR1-MW07-SH	CDE-OU3-BLSR1-DUP-01	CDE-OU3-BLSR1-MW08-SH	CDE-OU3-BLSR1-MW09-SH	CDE-OU3-BLSR1-MW10-SH	CDE-OU3-BLSR1-MW11-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04	MW-05	MW-07	MW-07	MW-08	MW-09	MW-10	MW-11
DEPTH (FT)		24-49	24-49	17-32	29-49	25-45.5	43-58	43-58	42-57.5	29-54	37-52	34-59
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/20/2016	12/21/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016	12/22/2016	12/21/2016	12/21/2016	12/20/2016
Aroclor-1242	N/A	1 U	1 U	9.8	1.8	1 U	1 U	1 U	1.2 J	1 U	1 U	21
Aroclor-1254	0.5	0.18 J	0.2 U	0.2 U	0.5	0.87	0.2 U	0.19 J	0.25 J	0.2 U	0.2 U	29
Aroclor-1260	N/A	0.057 J	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	2 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT1-1	CDE-OU3-BLSR1-ERT1-2	CDE-OU3-BLSR1-ERT1-3	CDE-OU3-BLSR1-ERT1-4	CDE-OU3-BLSR1-ERT1-5	CDE-OU3-BLSR1-ERT1-6	CDE-OU3-BLSR1-ERT1-7	CDE-OU3-BLSR1-ERT1-8	CDE-OU3-BLSR1-ERT2-1	CDE-OU3-BLSR1-ERT2-2	CDE-OU3-BLSR1-ERT2-4
LOCATION (WELL ID)		MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-4	ERT1-5	ERT1-6	ERT1-7	ERT1-8	ERT2-1	ERT2-2	ERT2-4
DEPTH (FT)		35-60	24-29	33-43	46-56	59-64	67-77	100-105	112-117	135-140	25-35	40-50	70-75
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/20/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	1/5/2017	1/5/2017	1/5/2017
Aroclor-1242	N/A	65	1 U	1 U	1 U	0.084 J	0.02 J	0.022 J	1 U	1 U	0.043 J	1 U	1 U
Aroclor-1254	0.5	8.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.029 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT2-5	CDE-OU3-BLSR1-ERT2-6	CDE-OU3-BLSR1-ERT2-7	CDE-OU3-BLSR1-ERT3-1	CDE-OU3-BLSR1-ERT3-2	CDE-OU3-BLSR1-ERT3-3	CDE-OU3-BLSR1-ERT3-5	CDE-OU3-BLSR1-ERT3-6	CDE-OU3-BLSR1-ERT4-1	CDE-OU3-BLSR1-ERT4-2	CDE-OU3-BLSR1-ERT4-3	CDE-OU3-BLSR1-ERT4-4
LOCATION (WELL ID)		ERT2-5	ERT2-6	ERT2-7	ERT3-1	ERT3-2	ERT3-3	ERT3-5	ERT3-6	ERT4-1	ERT4-2	ERT4-3	ERT4-4
DEPTH (FT)		97-107	113-123	127-137	27-37	55-65	90-105	124-134	138-148	27-37	46-56	61-66	83-88
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/5/2017	1/5/2017	1/5/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/13/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017
Aroclor-1242	N/A	1 U	1 U	0.054 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT4-5	CDE-OU3-BLSR1-DUP-10	CDE-OU3-BLSR1-ERT4-6	CDE-OU3-BLSR1-ERT4-7	CDE-OU3-BLSR1-ERT5-1	CDE-OU3-BLSR1-DUP-06	CDE-OU3-BLSR1-ERT5-2	CDE-OU3-BLSR1-ERT5-3	CDE-OU3-BLSR1-ERT5-4	CDE-OU3-BLSR1-ERT5-5	CDE-OU3-BLSR1-ERT5-6	CDE-OU3-BLSR1-ERT6-1
LOCATION (WELL ID)		ERT4-5	ERT4-5	ERT4-6	ERT4-7	ERT5-1	ERT5-1	ERT5-2	ERT5-3	ERT5-4	ERT5-5	ERT5-6	ERT6-1
DEPTH (FT)		91-106	91-106	111-116	128-138	24-34	24-34	37-47	50-60	77-87	93-98	120-130	26-36
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/10/2017	1/10/2017	1/10/2017	1/10/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.037 J	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT6-2	CDE-OU3-BLSR1-ERT6-3	CDE-OU3-BLSR1-ERT6-4	CDE-OU3-BLSR1-ERT6-5	CDE-OU3-BLSR1-ERT7-1	CDE-OU3-BLSR1-ERT7-2	CDE-OU3-BLSR1-ERT7-3	CDE-OU3-BLSR1-ERT7-4	CDE-OU3-BLSR1-ERT7-5	CDE-OU3-BLSR1-ERT8-1	CDE-OU3-BLSR1-ERT8-2	CDE-OU3-BLSR1-ERT8-3
LOCATION (WELL ID)		ERT6-2	ERT6-3	ERT6-4	ERT6-5	ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3
DEPTH (FT)		75-85	93-103	107-117	128-138	25-35	45-55	65-75	100-110	130-140	17-27	31-41	44-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/10/2017	1/10/2017	1/11/2017	1/10/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/24/2017	1/24/2017	1/24/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT8-5	CDE-OU3-BLSR1-ERT8-6	CDE-OU3-BLSR1-ERT8-7	CDE-OU3-BLSR1-MW13-1	CDE-OU3-BLSR1-DUP-05	CDE-OU3-BLSR1-MW13-2	CDE-OU3-BLSR1-MW13-3	CDE-OU3-BLSR1-MW13-4	CDE-OU3-BLSR1-MW13-5	CDE-OU3-BLSR1-MW13-6	CDE-OU3-BLSR1-MW13-7
LOCATION (WELL ID)		ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-1	MW-13-2	MW-13-3	MW-13-4	MW-13-5	MW-13-6	MW-13-7
DEPTH (FT)		87-97	107-112	135-145	18-28	18-28	35-45	63-73	95-105	115-125	150-160	230-240
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/24/2017	1/24/2017	1/24/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW14S-2	CDE-OU3-BLSR1-MW14S-3	CDE-OU3-BLSR1-MW14D-1	CDE-OU3-BLSR1-MW14D-2	CDE-OU3-BLSR1-DUP-02	CDE-OU3-BLSR1-MW14D-3	CDE-OU3-BLSR1-MW15S-1	CDE-OU3-BLSR1-MW15S-2	CDE-OU3-BLSR1-MW15D-1	CDE-OU3-BLSR1-MW15D-2	CDE-OU3-BLSR1-MW-16-1
LOCATION (WELL ID)		MW-14S-2	MW-14S-3	MW-14D-1	MW-14D-2	MW-14D-2	MW-14D-3	MW-15S-1	MW-15S-2	MW-15D-1	MW-15D-2	MW-16-1
DEPTH (FT)		41-46	55-60	80-85	123-133	123-133	199-209	30-40	70-80	125-135	185-195	20-30
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/27/2016	12/27/2016	12/27/2016	12/27/2016	12/27/2016	12/27/2016	12/22/2016	12/22/2016	1/3/2017	1/3/2017	12/28/2016
Aroclor-1242	N/A	32	15	61	1700	62	75	1.4	0.36 J	1 U	1 U	0.23 J
Aroclor-1254	0.5	36	6.9	15	850	9.2	8.9	0.2 U	0.044 J	0.2 U	0.2 U	0.083 J
Aroclor-1260	N/A	2 U	1 U	5 U	100 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW-16-2	CDE-OU3-BLSR1-MW-16-3	CDE-OU3-BLSR1-MW-16-4	CDE-OU3-BLSR1-MW-16-5	CDE-OU3-BLSR1-MW-16-6	CDE-OU3-BLSR1-MW-16-7	CDE-OU3-BLSR1-FPW-1	CDE-OU3-BLSR1-FPW-2	CDE-OU3-BLSR1-FPW-3	CDE-OU3-BLSR1-FPW-4	CDE-OU3-BLSR1-FPW-5
LOCATION (WELL ID)		MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6	MW-16-7	FPW-1	FPW-2	FPW-3	FPW-4	FPW-5
DEPTH (FT)		40-50	85-95	108-118	135-145	170-180	195-205	31-41	46-51	100-110	125-135	180-190
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017
Aroclor-1242	N/A	0.24 J	0.13 J	0.11 J	0.39 J	0.34 J	0.065 J	0.033 J	0.23 J	0.33 J	0.04 J	0.055 J
Aroclor-1254	0.5	0.11 J	0.087 J	0.2 U	0.054 J	0.085 J	0.2 U	0.2 U	0.026 J	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-FPW-6	CDE-OU3-BLSR1-FPW-7	CDE-OU3-BLSR1-FPW-8	CDE-OU3-BLSR1-FPW-9	CDE-OU3-BLSR1-MW17-1	CDE-OU3-BLSR1-MW17-2	CDE-OU3-BLSR1-MW17-3	CDE-OU3-BLSR1-MW18-1	CDE-OU3-BLSR1-MW18-2	CDE-OU3-BLSR1-MW19-1	CDE-OU3-BLSR1-MW19-2
LOCATION (WELL ID)		FPW-6	FPW-7	FPW-8	FPW-9	MW-17-1	MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1	MW-19-2
DEPTH (FT)		200-205	235-245	268-278	300-310	170-180	205-215	235-245	160-170	210-220	65-75	132-142
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/4/2017	1/3/2017	1/3/2017	1/3/2017	1/5/2017	1/5/2017	1/5/2017	1/6/2017	1/6/2017	1/19/2017	1/19/2017
Aroclor-1242	N/A	0.035 J	1 U	0.021 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW19-3	CDE-OU3-BLSR1-MW19-4	CDE-OU3-BLSR1-MW19-5	CDE-OU3-BLSR1-MW19-6	CDE-OU3-BLSR1-MW19-7	CDE-OU3-BLSR1-DUP-13	CDE-OU3-BLSR1-MW20-1	CDE-OU3-BLSR1-MW20-2	CDE-OU3-BLSR1-MW20-3	CDE-OU3-BLSR1-MW20-4	CDE-OU3-BLSR1-MW20-5
LOCATION (WELL ID)		MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7	MW-19-7	MW-20-1	MW-20-2	MW-20-3	MW-20-4	MW-20-5
DEPTH (FT)		200-210	257-267	367-377	480-490	545-555	545-555	25-35	85-95	125-135	175-185	205-215
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/11/2017	1/11/2017	1/12/2017	1/12/2017	1/11/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW20-6	CDE-OU3-BLSR1-MW20-7	CDE-OU3-BLSR1-MW20-8	CDE-OU3-BLSR1-MW21-1	CDE-OU3-BLSR1-MW21-2	CDE-OU3-BLSR1-MW21-3	CDE-OU3-BLSR1-MW21-4	CDE-OU3-BLSR1-MW21-5	CDE-OU3-BLSR1-MW21-6	CDE-OU3-BLSR1-MW21-7	CDE-OU3-BLSR1-MW21-8
LOCATION (WELL ID)		MW-20-6	MW-20-7	MW-20-8	MW-21-1	MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8
DEPTH (FT)		250-260	297-307	355-365	50-60	87-97	150-160	205-215	260-270	428-438	485-495	505-515
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/11/2017	1/13/2017	1/13/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW22-1	CDE-OU3-BLSR1-MW22-2	CDE-OU3-BLSR1-MW22-3	CDE-OU3-BLSR1-DUP-08	CDE-OU3-BLSR1-MW22-4	CDE-OU3-BLSR1-MW23-1	CDE-OU3-BLSR1-MW23-2	CDE-OU3-BLSR1-MW23-3	CDE-OU3-BLSR1-MW23-4	CDE-OU3-BLSR1-MW23-5	CDE-OU3-BLSR1-MW23-6
LOCATION (WELL ID)		MW-22-1	MW-22-2	MW-22-3	MW-22-3	MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4	MW-23-5	MW-23-6
DEPTH (FT)		45-55	125-135	210-220	210-220	305-315	60-70	120-130	170-180	226-236	258-268	316-326
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW23-7	CDE-OU3-BLSR1-MW23-8	CDE-OU3-BLSR1-MW23-9	CDE-OU3-BLSR1-MW24-1	CDE-OU3-BLSR1-MW24-2	CDE-OU3-BLSR1-MW24-3	CDE-OU3-BLSR1-MW24-4	CDE-OU3-BLSR1-MW24-5	CDE-OU3-BLSR1-DUP-16	CDE-OU3-BLSR1-MW24-6	CDE-OU3-BLSR1-MW25-1
LOCATION (WELL ID)		MW-23-7	MW-23-8	MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4	MW-24-5	MW-24-5	MW-24-6	MW-25-1
DEPTH (FT)		350-360	406-416	444-454	85-95	135-145	240-250	332-342	370-380	370-380	455-465	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/18/2017	1/18/2017	1/18/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/20/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW25-2	CDE-OU3-BLSR1-MW25-3	CDE-OU3-BLSR1-MW25-4	CDE-OU3-BLSR1-MW25-5	CDE-OU3-BLSR1-MW25-6	CDE-OU3-BLSR1-MW26-1	CDE-OU3-BLSR1-MW26-2	CDE-OU3-BLSR1-MW26-3	CDE-OU3-BLSR1-MW26-4	CDE-OU3-BLSR1-MW26-5	CDE-OU3-BLSR1-DUP-14
LOCATION (WELL ID)		MW-25-2	MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1	MW-26-2	MW-26-3	MW-26-4	MW-26-5	MW-26-5
DEPTH (FT)		175-185	200-210	275-285	345-355	435-445	95-105	175-185	255-265	305-320	385-395	385-395
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.34	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW26-6	CDE-OU3-BLSR1-MW27-1	CDE-OU3-BLSR1-MW27-2	CDE-OU3-BLSR1-MW27-3	CDE-OU3-BLSR1-MW27-4	CDE-OU3-BLSR1-MW27-5
LOCATION (WELL ID)		MW-26-6	MW-27-1	MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		455-465	85-95	180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017
Aroclor-1242	N/A	1 U	1 U	1 U	1 U	1 U	1 U
Aroclor-1254	0.5	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Aroclor-1260	N/A	1 U	1 U	1 U	1 U	1 U	1 U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141),
the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.
MW-06 was not sampled due to well damage.

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1 PCB CONGENERS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW11-SH	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT4-4	CDE-OU3-BLSR1-MW14S-2-RS	CDE-OU3-BLSR1-MW14S-3-RS
LOCATION (WELL ID)		**MW-01A**	**MW-11**	**MW-12**	**ERT4-4**	**MW-14S-2**	**MW-14S-3**
DEPTH (FT)		**24-49**	**34-59**	**35-60**	**83-88**	**41-46**	**55-60**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**12/20/2016**	**12/20/2016**	**12/20/2016**	**1/17/2017**	**1/4/2017**	**1/4/2017**
PCB-189	N/A	351	13000	487	31.8	100000 J-	6200
PCB-167	N/A	1190	130000 J-	11900	214	826000 J-	52800 J-
PCB-180	N/A	14700	382000 J-	19000	406	1920000 J-	218000 J-
PCB-170	N/A	7980	247000 J-	13400	314	1550000 J-	113000 J-
PCB-156	N/A	4180	476000 J-	43400	918	2650000 J-	166000 J-
PCB-105	N/A	9730	1460000 J-	448000 J-	3440	4810000 J-	507000 J-
PCB-118	N/A	21800 J	2700000 J-	891000 J-	6280 J	7510000 J-	1620000 J-
PCB-114	N/A	487	85900 J-	25700	176	609000 J-	36500
PCB-123	N/A	328	60600 J-	15200	90.9	278000 J-	20600
PCB-81	N/A	U	3360 J	5340	U	U	U
PCB-77	N/A	1030 J	71900 J-	138000 J-	1180 J	345000 J-	24500 J
PCB-126	N/A	172 J	2850 J	931 J	U	17000 J	1140 J

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1 PCB CONGENERS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW14D-1-RS	CDE-OU3-BLSR1-MW14D-2-RS	CDE-OU3-BLSR1-DUP-02-RS	CDE-OU3-BLSR1-MW14D-3-RS	CDE-OU3-BLSR1-MW-16-7-RS
LOCATION (WELL ID)		**MW-14D-1**	**MW-14D-2**	**MW-14D-2**	**MW-14D-3**	**MW-16-7**
DEPTH (FT)		**80-85**	**123-133**	**123-133**	**199-209**	**195-205**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**
PCB-189	N/A	63400 J-	177000 J-	84600 J-	295	U
PCB-167	N/A	561000 J-	1300000 J-	690000 J-	5280	22.9
PCB-180	N/A	1630000 J-	3030000 J-	1970000 J-	10900	60
PCB-170	N/A	1130000 J-	2520000 J-	1420000 J-	7950	43.1
PCB-156	N/A	1910000 J-	4210000 J-	2310000 J-	18800	81.3
PCB-105	N/A	4200000 J-	6130000 J-	6060000 J-	168000 J-	360
PCB-118	N/A	7130000 J-	7430000 J-	5920000 J-	365000 J-	702 J
PCB-114	N/A	461000 J-	1250000 J-	568000 J-	10200	U
PCB-123	N/A	336000 J-	596000 J-	362000 J-	5950	U
PCB-81	N/A	59400 J-	136000 J-	77600 J-	3330	U
PCB-77	N/A	1410000 J-	2960000 J-	1800000 J-	80900 J-	83.1 J
PCB-126	N/A	20500 J	55900 J-	26000 J	358 J	U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW02A-SH	CDE-OU3-BLSR1-MW03-SH	CDE-OU3-BLSR1-MW04-SH	CDE-OU3-BLSR1-MW05-SH	CDE-OU3-BLSR1-MW07-SH	CDE-OU3-BLSR1-DUP-01	CDE-OU3-BLSR1-MW08-SH	CDE-OU3-BLSR1-MW09-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04	MW-05	MW-07	MW-07	MW-08	MW-09
DEPTH (FT)		24-49	24-49	17-32	29-49	25-45.5	43-58	43-58	42-57.5	29-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/20/2016	12/21/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016	12/22/2016	12/21/2016
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.042 R	0.03 U	0.03 U	0.03 UJ	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
beta-BHC	0.04	0.026 J	0.01 U	0.02 R	0.076 NJ	0.01 U	0.01 U	0.16 J	0.039 NJ	0.01 U
delta-BHC	N/A	0.025 U	0.0037 J	0.025 U	0.025 U	0.0041 J	0.025 U	0.025 U	0.025 UJ	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.025 J	0.034 J	0.075 J	0.02 U	0.02 U	0.02 UJ	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 UJ	0.094 J	0.01 U	0.01 U	0.01 U	0.01 U	0.02 J	0.013 J
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Methoxychlor	40	0.013 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW10-SH	CDE-OU3-BLSR1-MW11-SH	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT1-1	CDE-OU3-BLSR1-ERT1-2	CDE-OU3-BLSR1-ERT1-3	CDE-OU3-BLSR1-ERT1-4	CDE-OU3-BLSR1-ERT1-5	CDE-OU3-BLSR1-ERT1-6	CDE-OU3-BLSR1-ERT1-7
LOCATION (WELL ID)		MW-10	MW-11	MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-4	ERT1-5	ERT1-6	ERT1-7
DEPTH (FT)		37-52	34-59	35-60	24-29	33-43	46-56	59-64	67-77	100-105	112-117
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/21/2016	12/20/2016	12/20/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016
4,4'-DDD	0.1	0.03 U	0.046 NJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.57 J	0.29 J	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	1.7 R	0.27 R	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.081 NJ	0.27 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	1.3 NJ	0.7 R	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0017 J
delta-BHC	N/A	0.0097 J	0.14 R	0.11 R	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.0028 J	1.6 NJ	0.85 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.0026 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.11 R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.21 NJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.098 NJ	0.37 NJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.54 R	0.19 R	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.2 NJ	1.4 NJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.031 R	0.025 U	0.0037 J	0.0016 J	0.025 U	0.0023 J	0.025 U	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT1-8	CDE-OU3-BLSR1-ERT2-1	CDE-OU3-BLSR1-ERT2-2	CDE-OU3-BLSR1-ERT2-4	CDE-OU3-BLSR1-ERT2-5	CDE-OU3-BLSR1-ERT2-6	CDE-OU3-BLSR1-ERT2-7	CDE-OU3-BLSR1-ERT3-1	CDE-OU3-BLSR1-ERT3-2	CDE-OU3-BLSR1-ERT3-3
LOCATION (WELL ID)		ERT1-8	ERT2-1	ERT2-2	ERT2-4	ERT2-5	ERT2-6	ERT2-7	ERT3-1	ERT3-2	ERT3-3
DEPTH (FT)		135-140	25-35	40-50	70-75	97-107	113-123	127-137	27-37	55-65	90-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/29/2016	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/13/2017	1/13/2017	1/13/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.0031 J	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.016 J	0.03 U	0.0037 J	0.03 U	0.03 U	0.03 UJ
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ
delta-BHC	N/A	0.025 U	0.0024 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.017 J	0.02 U	0.02 U	0.02 UJ
Endosulfan II	40	0.05 U	0.0022 J	0.0021 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.0025 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
gamma-BHC (Lindane)	0.03	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ
gamma-Chlordane	0.5	0.025 U	0.0018 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
Heptachlor epoxide	0.02	0.0024 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ
Methoxychlor	40	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 UJ

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT3-5	CDE-OU3-BLSR1-ERT3-6	CDE-OU3-BLSR1-ERT4-1	CDE-OU3-BLSR1-ERT4-2	CDE-OU3-BLSR1-ERT4-3	CDE-OU3-BLSR1-ERT4-4	CDE-OU3-BLSR1-ERT4-5	CDE-OU3-BLSR1-DUP-10	CDE-OU3-BLSR1-ERT4-6	CDE-OU3-BLSR1-ERT4-7
LOCATION (WELL ID)		ERT3-5	ERT3-6	ERT4-1	ERT4-2	ERT4-3	ERT4-4	ERT4-5	ERT4-5	ERT4-6	ERT4-7
DEPTH (FT)		124-134	138-148	27-37	46-56	61-66	83-88	91-106	91-106	111-116	128-138
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/13/2017	1/13/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT5-1	CDE-OU3-BLSR1-DUP-06	CDE-OU3-BLSR1-ERT5-2	CDE-OU3-BLSR1-ERT5-3	CDE-OU3-BLSR1-ERT5-4	CDE-OU3-BLSR1-ERT5-5	CDE-OU3-BLSR1-ERT5-6	CDE-OU3-BLSR1-ERT6-1	CDE-OU3-BLSR1-ERT6-2	CDE-OU3-BLSR1-ERT6-3
LOCATION (WELL ID)		ERT5-1	ERT5-1	ERT5-2	ERT5-3	ERT5-4	ERT5-5	ERT5-6	ERT6-1	ERT6-2	ERT6-3
DEPTH (FT)		24-34	24-34	37-47	50-60	77-87	93-98	120-130	26-36	75-85	93-103
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/10/2017	1/10/2017	1/10/2017	1/10/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/10/2017	1/10/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.0038 J	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.0013 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.003 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT6-4	CDE-OU3-BLSR1-ERT6-5	CDE-OU3-BLSR1-ERT7-1	CDE-OU3-BLSR1-ERT7-2	CDE-OU3-BLSR1-ERT7-3	CDE-OU3-BLSR1-ERT7-4	CDE-OU3-BLSR1-ERT7-5	CDE-OU3-BLSR1-ERT8-1	CDE-OU3-BLSR1-ERT8-2	CDE-OU3-BLSR1-ERT8-3
LOCATION (WELL ID)		ERT6-4	ERT6-5	ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3
DEPTH (FT)		107-117	128-138	25-35	45-55	65-75	100-110	130-140	17-27	31-41	44-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/11/2017	1/10/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/24/2017	1/24/2017	1/24/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.0048 J	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.015 J	0.025	0.02 U	0.02 U	0.04	0.33	0.065
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0028 J	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 J	0.0045 J
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.0062 J	0.0052 J	0.0033 J
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT8-5	CDE-OU3-BLSR1-ERT8-6	CDE-OU3-BLSR1-ERT8-7	CDE-OU3-BLSR1-MW13-1	CDE-OU3-BLSR1-DUP-05	CDE-OU3-BLSR1-MW13-2	CDE-OU3-BLSR1-MW13-3	CDE-OU3-BLSR1-MW13-4	CDE-OU3-BLSR1-MW13-5	CDE-OU3-BLSR1-MW13-6
LOCATION (WELL ID)		ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-1	MW-13-2	MW-13-3	MW-13-4	MW-13-5	MW-13-6
DEPTH (FT)		87-97	107-112	135-145	18-28	18-28	35-45	63-73	95-105	115-125	150-160
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/24/2017	1/24/2017	1/24/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.0021 J	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.0061 J	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.0013 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.0019 J	0.01 U	0.01 U	0.0018 J	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.006 J	0.0093 J	0.0044 J	0.025 U	0.002 J	0.0018 J	0.025 U	0.025 U	0.0017 J	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW13-7	CDE-OU3-BLSR1-MW14S-2	CDE-OU3-BLSR1-MW14S-3	CDE-OU3-BLSR1-MW14D-1	CDE-OU3-BLSR1-MW14D-2	CDE-OU3-BLSR1-DUP-02	CDE-OU3-BLSR1-MW14D-3	CDE-OU3-BLSR1-MW15S-1	CDE-OU3-BLSR1-MW15S-2
LOCATION (WELL ID)		MW-13-7	MW-14S-2	MW-14S-3	MW-14D-1	MW-14D-2	MW-14D-2	MW-14D-3	MW-15S-1	MW-15S-2
DEPTH (FT)		230-240	41-46	55-60	80-85	123-133	123-133	199-209	30-40	70-80
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/6/2017	12/27/2016	12/27/2016	12/27/2016	12/27/2016	12/27/2016	12/27/2016	12/22/2016	12/22/2016
4,4'-DDD	0.1	0.03 U	0.076 NJ	0.03 U	0.18 NJ	0.035 R	0.03 U	0.62 NJ	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.69 NJ	0.12 J	1.7 J	0.29 NJ	0.03 U	5 NJ	0.03 U	0.0039 J
4,4'-DDT	0.1	0.03 U	2.9 NJ	0.25 R	5.7 NJ	1 NJ	0.03 UJ	19 NJ	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.13 R	0.15	0.29 R	0.34 J	0.025 U	0.28 R	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.12 J	0.027 NJ	1.8	0.36	0.025 U	5.1	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	1.4 NJ	0.86 NJ	0.049 R	0.027 R	0.01 U	0.16 R	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.13 R	0.044 R	0.19 R	0.063 R	0.025 U	0.59 R	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	2.5 J	0.32 NJ	4.9 J	1	0.0022 J	16 J	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.064 R	0.05 U	0.05 U	0.25 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.056 J	0.05 U	0.25 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.16 R	0.05 U	0.33 R	0.068 R	0.05 U	1.2 R	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 UJ	0.33 J	0.05 U	0.62 J	0.11 J	0.05 U	2.1 J	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.093 R	0.05 U	0.17 R	0.05 U	0.05 U	0.57 R	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.098 NJ	0.09 R	0.54 R	0.27 R	0.01 U	1.4 NJ	0.02 R	0.01 U
gamma-Chlordane	0.5	0.025 U	0.89 NJ	0.1 R	1.6 NJ	0.29 NJ	0.025 U	5.3 NJ	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.003 J	0.025 U	0.025 U	0.21 R	0.045 R	0.025 U	0.67 R	0.025 U	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.3 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW15D-1	CDE-OU3-BLSR1-MW15D-2	CDE-OU3-BLSR1-MW-16-1	CDE-OU3-BLSR1-MW-16-2	CDE-OU3-BLSR1-MW-16-3	CDE-OU3-BLSR1-MW-16-4	CDE-OU3-BLSR1-MW-16-5	CDE-OU3-BLSR1-MW-16-6	CDE-OU3-BLSR1-MW-16-7
LOCATION (WELL ID)		MW-15D-1	MW-15D-2	MW-16-1	MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6	MW-16-7
DEPTH (FT)		125-135	185-195	20-30	40-50	85-95	108-118	135-145	170-180	195-205
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	1/3/2017	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016	12/28/2016
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.12 NJ
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.29 NJ
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.31
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.17
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.014 R	0.01 U	0.012 R	0.01 U	0.02 R
delta-BHC	N/A	0.025 U	0.025 U	0.0049 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.04 R
Dieldrin	0.03	0.02 U	0.02 U	0.0017 J	0.02 U	0.0095 J	0.0092 J	0.02 U	0.02 U	0.39
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.024 J
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.0034 J	0.01 U	0.0028 J	0.01 U	0.21 NJ
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.11 NJ
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.0033 J	0.0018 J	0.0046 J	0.025 U	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 UJ	0.25 UJ	0.013 J	0.25 U	0.011 J	0.25 U	0.25 U	0.012 J	0.031 J

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-FPW-1	CDE-OU3-BLSR1-FPW-2	CDE-OU3-BLSR1-FPW-3	CDE-OU3-BLSR1-FPW-4	CDE-OU3-BLSR1-FPW-5	CDE-OU3-BLSR1-FPW-6	CDE-OU3-BLSR1-FPW-7	CDE-OU3-BLSR1-FPW-8	CDE-OU3-BLSR1-FPW-9	CDE-OU3-BLSR1-MW17-1
LOCATION (WELL ID)		FPW-1	FPW-2	FPW-3	FPW-4	FPW-5	FPW-6	FPW-7	FPW-8	FPW-9	MW-17-1
DEPTH (FT)		31-41	46-51	100-110	125-135	180-190	200-205	235-245	268-278	300-310	170-180
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/4/2017	1/3/2017	1/3/2017	1/3/2017	1/5/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.015 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.0019 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 U	0.0019 J	0.025 U	0.025 U	0.0021 J	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 U	0.25 UJ	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.016 J	0.25 UJ	0.25 UJ	0.25 UJ

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW17-2	CDE-OU3-BLSR1-MW17-3	CDE-OU3-BLSR1-MW18-1	CDE-OU3-BLSR1-MW18-2	CDE-OU3-BLSR1-MW19-1	CDE-OU3-BLSR1-MW19-2	CDE-OU3-BLSR1-MW19-3	CDE-OU3-BLSR1-MW19-4	CDE-OU3-BLSR1-MW19-5	CDE-OU3-BLSR1-MW19-6
LOCATION (WELL ID)		MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1	MW-19-2	MW-19-3	MW-19-4	MW-19-5	MW-19-6
DEPTH (FT)		205-215	235-245	160-170	210-220	65-75	132-142	200-210	257-267	367-377	480-490
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/5/2017	1/5/2017	1/6/2017	1/6/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.0012 J	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.0017 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0018 J	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.0022 J	0.025 U	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 UJ	0.0084 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW19-7	CDE-OU3-BLSR1-DUP-13	CDE-OU3-BLSR1-MW20-1	CDE-OU3-BLSR1-MW20-2	CDE-OU3-BLSR1-MW20-3	CDE-OU3-BLSR1-MW20-4	CDE-OU3-BLSR1-MW20-5	CDE-OU3-BLSR1-MW20-6	CDE-OU3-BLSR1-MW20-7	CDE-OU3-BLSR1-MW20-8
LOCATION (WELL ID)		MW-19-7	MW-19-7	MW-20-1	MW-20-2	MW-20-3	MW-20-4	MW-20-5	MW-20-6	MW-20-7	MW-20-8
DEPTH (FT)		545-555	545-555	25-35	85-95	125-135	175-185	205-215	250-260	297-307	355-365
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/19/2017	1/11/2017	1/11/2017	1/12/2017	1/12/2017	1/11/2017	1/11/2017	1/13/2017	1/13/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW21-1	CDE-OU3-BLSR1-MW21-2	CDE-OU3-BLSR1-MW21-3	CDE-OU3-BLSR1-MW21-4	CDE-OU3-BLSR1-MW21-5	CDE-OU3-BLSR1-MW21-6	CDE-OU3-BLSR1-MW21-7	CDE-OU3-BLSR1-MW21-8	CDE-OU3-BLSR1-MW22-1	CDE-OU3-BLSR1-MW22-2
LOCATION (WELL ID)		MW-21-1	MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8	MW-22-1	MW-22-2
DEPTH (FT)		50-60	87-97	150-160	205-215	260-270	428-438	485-495	505-515	45-55	125-135
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/19/2017	1/24/2017	1/24/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017	1/12/2017	1/12/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.0021 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.0077 J	0.0052 J	0.025 U	0.025 U	0.0045 J	0.0073 J	0.025 UJ	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW22-3	CDE-OU3-BLSR1-DUP-08	CDE-OU3-BLSR1-MW22-4	CDE-OU3-BLSR1-MW23-1	CDE-OU3-BLSR1-MW23-2	CDE-OU3-BLSR1-MW23-3	CDE-OU3-BLSR1-MW23-4	CDE-OU3-BLSR1-MW23-5	CDE-OU3-BLSR1-MW23-6	CDE-OU3-BLSR1-MW23-7
LOCATION (WELL ID)		MW-22-3	MW-22-3	MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4	MW-23-5	MW-23-6	MW-23-7
DEPTH (FT)		210-220	210-220	305-315	60-70	120-130	170-180	226-236	258-268	316-326	350-360
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/12/2017	1/12/2017	1/12/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017
4,4'-DDD	0.1	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.0039 J	0.0045 J	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.0051 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Methoxychlor	40	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW23-8	CDE-OU3-BLSR1-MW23-9	CDE-OU3-BLSR1-MW24-1	CDE-OU3-BLSR1-MW24-2	CDE-OU3-BLSR1-MW24-3	CDE-OU3-BLSR1-MW24-4	CDE-OU3-BLSR1-MW24-5	CDE-OU3-BLSR1-DUP-16	CDE-OU3-BLSR1-MW24-6	CDE-OU3-BLSR1-MW25-1
LOCATION (WELL ID)		MW-23-8	MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4	MW-24-5	MW-24-5	MW-24-6	MW-25-1
DEPTH (FT)		406-416	444-454	85-95	135-145	240-250	332-342	370-380	370-380	455-465	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/18/2017	1/18/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/20/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 UJ	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 U	0.025 UJ	0.025 UJ	0.025 U	0.0035 J	0.0031 J	0.007 J	0.025 U	0.0042 J
Methoxychlor	40	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW25-2	CDE-OU3-BLSR1-MW25-3	CDE-OU3-BLSR1-MW25-4	CDE-OU3-BLSR1-MW25-5	CDE-OU3-BLSR1-MW25-6	CDE-OU3-BLSR1-MW26-1	CDE-OU3-BLSR1-MW26-2	CDE-OU3-BLSR1-MW26-3	CDE-OU3-BLSR1-MW26-4	CDE-OU3-BLSR1-MW26-5
LOCATION (WELL ID)		MW-25-2	MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1	MW-26-2	MW-26-3	MW-26-4	MW-26-5
DEPTH (FT)		175-185	200-210	275-285	345-355	435-445	95-105	175-185	255-265	305-320	385-395
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.0025 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U
Heptachlor epoxide	0.02	0.0048 J	0.0036 J	0.0047 J	0.0028 J	0.0023 J	0.025 U	0.025 U	0.025 U	0.025 UJ	0.025 U
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-14	CDE-OU3-BLSR1-MW26-6	CDE-OU3-BLSR1-MW27-1	CDE-OU3-BLSR1-MW27-2	CDE-OU3-BLSR1-MW27-3	CDE-OU3-BLSR1-MW27-4	CDE-OU3-BLSR1-MW27-5
LOCATION (WELL ID)		MW-26-5	MW-26-6	MW-27-1	MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		385-395	455-465	85-95	180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017
4,4'-DDD	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDE	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
4,4'-DDT	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Aldrin	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
alpha-Chlordane	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
beta-BHC	0.04	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
delta-BHC	N/A	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dieldrin	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan sulfate	40	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin aldehyde	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endrin ketone	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.03	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Heptachlor	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.02	0.025 U	0.025 UJ	0.004 J	0.0036 J	0.0036 J	0.0073 J	0.0034 J
Methoxychlor	40	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

Notes:

N/A = Not Applicable; no preliminary remediation goal identified.

The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).

Shading indicates exceedance of Potential Clean up Standard.

MW-06 was not sampled due to well damage.

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
DIOXINS/FURANS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW11-SH	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT4-4	CDE-OU3-BLSR1-MW14S-2-RS	CDE-OU3-BLSR1-MW14S-3-RS
LOCATION (WELL ID)		**MW-01A**	**MW-11**	**MW-12**	**ERT4-4**	**MW-14S-2**	**MW-14S-3**
DEPTH (FT)		**24-49**	**34-59**	**35-60**	**83-88**	**41-46**	**55-60**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**12/20/2016**	**12/20/2016**	**12/20/2016**	**1/17/2017**	**1/4/2017**	**1/4/2017**
2,3,7,8-TCDF	N/A	16.9	55.7	32.2	U	81.7	8.75 EMPC
1,2,3,4,6,7,8-HpCDF	N/A	4.71 J	30.1	5.92 J	U	280	20.6 J
2,3,4,7,8-PeCDF	N/A	5.21 J	53.2	10 J	U	183	11.1 J
1,2,3,6,7,8-HxCDF	N/A	1.51 J	36.1	2.37 J	U	282	18.2 J
1,2,3,4,7,8-HxCDF	N/A	3.32 EMPC-J	81.5	4.4 J	U	633	39.4
1,2,3,6,7,8-HxCDD	N/A	U	U	U	U	U	U
1,2,3,7,8,9-HxCDD	N/A	U	U	U	U	U	U
OCDF	N/A	U	23.9 J	22 J	U	278	22.9 J
OCDD	N/A	16.4 U	48.3 U	152	U	U	U
1,2,3,4,6,7,8-HpCDD	N/A	1.67 EMPC-J	2.18 EMPC-J	13.7 J	U	5.89 J	U
1,2,3,4,7,8,9-HpCDF	N/A	U	20.8 J	U	U	190	10.5 J
1,2,3,7,8-PeCDF	N/A	3.56 EMPC-J	12.1 J	U	U	51	U
2,3,4,6,7,8-HxCDF	N/A	U	19.2 J	U	U	132	8.02 J
1,2,3,7,8,9-HxCDF	N/A	U	5.01 J	U	U	44	1.47 J

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
DIOXINS/FURANS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW14D-1-RS	CDE-OU3-BLSR1-MW14D-2-RS	CDE-OU3-BLSR1-DUP-02-RS	CDE-OU3-BLSR1-MW14D-3-RS	CDE-OU3-BLSR1-MW-16-7-RS
LOCATION (WELL ID)		**MW-14D-1**	**MW-14D-2**	**MW-14D-2**	**MW-14D-3**	**MW-16-7**
DEPTH (FT)		**80-85**	**123-133**	**123-133**	**199-209**	**195-205**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**
2,3,7,8-TCDF	N/A	51.4	119 J	60.9 J	U	U
1,2,3,4,6,7,8-HpCDF	N/A	103	260 J	120 J	U	U
2,3,4,7,8-PeCDF	N/A	167	402 J	178 J	U	U
1,2,3,6,7,8-HxCDF	N/A	126	320 J	146 J	U	U
1,2,3,4,7,8-HxCDF	N/A	286	738 J	337 J	U	U
1,2,3,6,7,8-HxCDD	N/A	17.8 J	44.3	19.9 J	U	U
1,2,3,7,8,9-HxCDD	N/A	5.57 EMPC-J	18.1 J	9.04 J	U	U
OCDF	N/A	134	363 J	158 J	U	U
OCDD	N/A	33.1 J	88.9	44 J	U	U
1,2,3,4,6,7,8-HpCDD	N/A	37	96	43.7	U	U
1,2,3,4,7,8,9-HpCDF	N/A	90.5	237	106	U	U
1,2,3,7,8-PeCDF	N/A	34.3	78.7	37.1	U	U
2,3,4,6,7,8-HxCDF	N/A	78.5	201	89.2	U	U
1,2,3,7,8,9-HxCDF	N/A	24 J	41.8	30.3	U	U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW01A-SH	CDE-OU3-BLSR1-MW02A-SH	CDE-OU3-BLSR1-MW03-SH	CDE-OU3-BLSR1-MW04-SH	CDE-OU3-BLSR1-MW05-SH	CDE-OU3-BLSR1-MW07-SH	CDE-OU3-BLSR1-DUP-01	CDE-OU3-BLSR1-MW08-SH	CDE-OU3-BLSR1-MW09-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04	MW-05	MW-07	MW-07	MW-08	MW-09
DEPTH (FT)		24-49	24-49	17-32	29-49	25-45.5	43-58	43-58	42-57.5	29-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/20/2016	12/21/2016	12/22/2016	12/22/2016	12/21/2016	12/21/2016	12/21/2016	12/22/2016	12/21/2016
Aluminum	50	300	31	ND U	300	27	220	150	160	ND U
Arsenic	3	1.1	ND U	ND U	1.1	3.2	ND U	ND U	1.6	1.7
Barium	2,000	950	670	920	190	120	3100	3000	140	39
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	69000	51000	130000	72000	68000	210000	200000	64000	280000
Chromium	70	7.8	ND U	8.5	6.6	100	1.3	2.6	2.8	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	2	ND U	ND U	2.5	6.6	1.1	ND U	ND U	130
Iron	300	460	350	67	200	760	340	240	190	ND U
Lead	5	1.7	ND U	ND U	ND U	ND U	ND U	ND U	1.4	ND U
Magnesium	N/A	14000	10000	17000	16000	19000	21000	21000	14000	37000
Manganese	50	22	880	17	790	530	45	43	100	65
Nickel	N/A	5.9	3.4	5.6	2.6	17	3	3.5	2.4	1.1
Potassium	N/A	1500	1200	1200	1500	1900	2100	2000	2800	1600
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	27000	52000	15000	12000	20000	17000	18000	33000	24000
Vanadium	N/A	6.8	ND U	4.3	4.8	13	2.8	2.6	3.4	3.2
Zinc	N/A	6	ND U	ND U	2.6	2.2	3.5	3	8.1	ND U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW10-SH	CDE-OU3-BLSR1-MW11-SH	CDE-OU3-BLSR1-MW12-SH	CDE-OU3-BLSR1-ERT1-1	CDE-OU3-BLSR1-ERT1-2	CDE-OU3-BLSR1-ERT1-3	CDE-OU3-BLSR1-ERT1-4	CDE-OU3-BLSR1-ERT1-5	CDE-OU3-BLSR1-ERT1-6
LOCATION (WELL ID)		MW-10	MW-11	MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-4	ERT1-5	ERT1-6
DEPTH (FT)		37-52	34-59	35-60	24-29	33-43	46-56	59-64	67-77	100-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/21/2016	12/20/2016	12/20/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016	12/29/2016
Aluminum	50	1500	280	520	290	ND U	ND U	ND U	ND U	ND U
Arsenic	3	2.3	ND U	1.1	2.2	1.5	1.6	2.1	2.2	1.5
Barium	2,000	400	670	630	110	100	120	110	120	83
Cadmium	4	ND U	2.2	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	35000	31000	270000	64000	66000	59000	57000	56000	55000
Chromium	70	26	22	1.8	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	2	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	6.4	8.5	3.9	2.3	ND U	ND U	ND U	ND U	ND U
Iron	300	1900	1100	2200	350	ND U	ND U	ND U	ND U	ND U
Lead	5	1.5	1.6	3.7	3.3	1.5	ND U	ND U	1.2	ND U
Magnesium	N/A	8200	4300	24000	17000	18000	17000	17000	17000	18000
Manganese	50	220	280	420	29	ND U	15	56	170	1.7
Nickel	N/A	12	17	3.1	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	1300	1100	1700	1400	1300	1300	1300	1300	1300
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	8800	7500	35000	12000	13000	12000	14000	14000	18000
Vanadium	N/A	9.1	7.9	9.2	6.4	5.8	6.5	6.2	5.8	5.1
Zinc	N/A	11	9.1	5.9	4.3	ND U	ND U	ND U	ND U	4.5

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT1-7	CDE-OU3-BLSR1-ERT1-8	CDE-OU3-BLSR1-ERT2-1	CDE-OU3-BLSR1-ERT2-2	CDE-OU3-BLSR1-ERT2-4	CDE-OU3-BLSR1-ERT2-5	CDE-OU3-BLSR1-ERT2-6	CDE-OU3-BLSR1-ERT2-7	CDE-OU3-BLSR1-ERT3-1	CDE-OU3-BLSR1-ERT3-2	CDE-OU3-BLSR1-ERT3-3
LOCATION (WELL ID)		ERT1-7	ERT1-8	ERT2-1	ERT2-2	ERT2-4	ERT2-5	ERT2-6	ERT2-7	ERT3-1	ERT3-2	ERT3-3
DEPTH (FT)		112-117	135-140	25-35	40-50	70-75	97-107	113-123	127-137	27-37	55-65	90-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/29/2016	12/29/2016	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/13/2017	1/13/2017	1/13/2017
Aluminum	50	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Arsenic	3	1.8	1.8	1.3	ND U	1.6	1.6	1.5	2.1	1.1	2	2.8
Barium	2,000	100	110	9200	2500	830	550	340	120	520	450	240
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	59000	66000	590000	300000	85000	73000	67000	57000	210000	120000	120000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	ND U	1.2	ND U	2.6	6.1	ND U	ND U	ND U
Iron	300	ND U	ND U	320	ND U	22	ND U	ND U	ND U	ND U	ND U	ND U
Lead	5	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Magnesium	N/A	19000	22000	51000	33000	18000	20000	22000	25000	20000	42000	42000
Manganese	50	28	4.6	160	2.9	2.7	1.8	3.9	1.4	290	40	40
Nickel	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	1400	1400	3400	1900	1600	1800	1700	1500	2800	2200	2700
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	19000	18000	60000	38000	17000	17000	16000	16000	150000	31000	35000
Vanadium	N/A	5.3	4.7	1.7	2.6	5.3	6.3	7	8.9	2.7	8.2	9.7
Zinc	N/A	3.8	ND U	5.9	2.8	3.8	4.7	2	2.3	8.7	3	3.7

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT3-5	CDE-OU3-BLSR1-ERT3-6	CDE-OU3-BLSR1-ERT4-1	CDE-OU3-BLSR1-ERT4-2	CDE-OU3-BLSR1-ERT4-3	CDE-OU3-BLSR1-ERT4-4	CDE-OU3-BLSR1-ERT4-5	CDE-OU3-BLSR1-DUP-10	CDE-OU3-BLSR1-ERT4-6	CDE-OU3-BLSR1-ERT4-7	CDE-OU3-BLSR1-ERT5-1
LOCATION (WELL ID)		ERT3-5	ERT3-6	ERT4-1	ERT4-2	ERT4-3	ERT4-4	ERT4-5	ERT4-5	ERT4-6	ERT4-7	ERT5-1
DEPTH (FT)		124-134	138-148	27-37	46-56	61-66	83-88	91-106	91-106	111-116	128-138	24-34
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/13/2017	1/13/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/10/2017
Aluminum	50	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Arsenic	3	3.2	3.5	1.6	1.4	1.3	2	2.4	2.4	2.6	2.8	ND U
Barium	2,000	61	34	69	73	67	48	47	48	41	40	150
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	61000	55000	58000	59000	59000	56000	56000	55000	57000	54000	66000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Iron	300	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Lead	5	ND U	ND U	1	1.6	ND U	ND U	1.5	1.6	1.2	ND U	ND U
Magnesium	N/A	24000	23000	22000	22000	22000	24000	25000	25000	26000	24000	6000
Manganese	50	ND U	ND U	ND U	1.3	3	ND U	ND U	ND U	ND U	ND U	22
Nickel	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	1500	1500	1400	1400	1400	1400	1400	1400	1400	1400	540
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	21000	18000	16000	15000	15000	18000	18000	18000	18000	17000	19000
Vanadium	N/A	11	13	6.7	6	5.8	8.9	10	10	10	11	3.3
Zinc	N/A	2.4	3.2	2.9	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-06	CDE-OU3-BLSR1-ERT5-2	CDE-OU3-BLSR1-ERT5-3	CDE-OU3-BLSR1-ERT5-4	CDE-OU3-BLSR1-ERT5-5	CDE-OU3-BLSR1-ERT5-6	CDE-OU3-BLSR1-ERT6-1	CDE-OU3-BLSR1-ERT6-2	CDE-OU3-BLSR1-ERT6-3	CDE-OU3-BLSR1-ERT6-4	CDE-OU3-BLSR1-ERT6-5
LOCATION (WELL ID)		ERT5-1	ERT5-2	ERT5-3	ERT5-4	ERT5-5	ERT5-6	ERT6-1	ERT6-2	ERT6-3	ERT6-4	ERT6-5
DEPTH (FT)		24-34	37-47	50-60	77-87	93-98	120-130	26-36	75-85	93-103	107-117	128-138
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/10/2017	1/10/2017	1/10/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/10/2017	1/10/2017	1/11/2017	1/10/2017
Aluminum	50	ND U	ND U	ND U	ND U	ND U	ND U	170	ND U	650	23	ND U
Arsenic	3	ND U	1.1	1.7	1.6	1.9	2.2	3.4	1.7	2.3	1.9	1.4
Barium	2,000	150	190	140	110	100	88	700	270	78	200	230
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	67000	69000	55000	51000	51000	50000	61000	69000	54000	67000	70000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	1.6	1.6	ND U	ND U	ND U	ND U	1.3	6	ND U	ND U
Iron	300	ND U	ND U	ND U	ND U	ND U	ND U	1400	ND U	ND U	ND U	ND U
Lead	5	ND U	ND U	ND U	ND U	ND U	ND U	ND U	1.9	ND U	ND U	ND U
Magnesium	N/A	5900	8000	21000	19000	20000	22000	9700	11000	22000	15000	11000
Manganese	50	20	ND U	1.3	ND U	ND U	ND U	74	ND U	ND U	ND U	ND U
Nickel	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	530	660	1300	1300	1300	1400	1200	1000	1400	1200	1000
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	18000	17000	12000	13000	14000	15000	13000	13000	16000	14000	13000
Vanadium	N/A	3.2	4.6	6.5	6.6	7.5	8.9	3.5	5	8.9	6.4	5.2
Zinc	N/A	ND U	11	11	3.2	5.6	4.9	2	8.4	2.4	4.5	4.5

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-ERT7-1	CDE-OU3-BLSR1-ERT7-2	CDE-OU3-BLSR1-ERT7-3	CDE-OU3-BLSR1-ERT7-4	CDE-OU3-BLSR1-ERT7-5	CDE-OU3-BLSR1-ERT8-1	CDE-OU3-BLSR1-ERT8-2	CDE-OU3-BLSR1-ERT8-3	CDE-OU3-BLSR1-ERT8-5	CDE-OU3-BLSR1-ERT8-6	CDE-OU3-BLSR1-ERT8-7
LOCATION (WELL ID)		ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3	ERT8-5	ERT8-6	ERT8-7
DEPTH (FT)		25-35	45-55	65-75	100-110	130-140	17-27	31-41	44-54	87-97	107-112	135-145
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/17/2017	1/24/2017	1/24/2017	1/24/2017	1/24/2017	1/24/2017	1/24/2017
Aluminum	50	52	ND U	ND U	ND U	36	88	ND U	ND U	ND U	ND U	ND U
Arsenic	3	1.9	1.1	1.2	1.1	3.3	ND U	ND U	ND U	3	5.3	2.2
Barium	2,000	830	830	830	800	95	1200	1500	1100	310	200	120
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	60000	57000	47000	48000	46000	120000	140000	110000	46000	44000	62000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	2	ND U	ND U	ND U	21	1.2	ND U	1.2	1.4	ND U	1.5
Iron	300	89	ND U	ND U	ND U	56	87	ND U	ND U	ND U	ND U	ND U
Lead	5	2.3	1.1	3.4	2.1	10	3.1	3.7	1.1	1.9	1.3	1.5
Magnesium	N/A	5600	9000	14000	16000	19000	10000	12000	9200	18000	21000	20000
Manganese	50	7.7	1.9	ND U	2	67	16	ND U	ND U	ND U	7.4	2.9
Nickel	N/A	1.4	ND U	ND U	ND U	6.9	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	980	1000	1100	1100	1500	1100	1100	990	1400	1900	1500
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	11000	10000	9000	9500	13000	15000	14000	11000	9100	11000	14000
Vanadium	N/A	4.9	3.1	5.2	4.5	6.8	4	2.8	2.1	5.4	8.7	6.4
Zinc	N/A	12	3.9	8.6	6.2	31	7.8	5.4	13	8.4	5.2	7.1

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW13-1	CDE-OU3-BLSR1-DUP-05	CDE-OU3-BLSR1-MW13-2	CDE-OU3-BLSR1-MW13-3	CDE-OU3-BLSR1-MW13-4	CDE-OU3-BLSR1-MW13-5	CDE-OU3-BLSR1-MW13-6	CDE-OU3-BLSR1-MW13-7	CDE-OU3-BLSR1-MW14D-1	CDE-OU3-BLSR1-MW14D-2
LOCATION (WELL ID)		MW-13-1	MW-13-1	MW-13-2	MW-13-3	MW-13-4	MW-13-5	MW-13-6	MW-13-7	MW-14D-1	MW-14D-2
DEPTH (FT)		18-28	18-28	35-45	63-73	95-105	115-125	150-160	230-240	80-85	123-133
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	1/6/2017	12/27/2016	12/27/2016
Aluminum	50	140	ND U	24	15	ND U	ND U	ND U	15	25	ND U
Arsenic	3	4.7	2.4	7.7	3.3	2.4	2.5	3.6	3.3	3.8	3.5
Barium	2,000	400	170	500	260	170	220	230	160	290	83
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	67000	55000	72000	58000	56000	54000	54000	70000	84000	58000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	1.5	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	2.6	3.9	1.7	4.5	3.8	5.6	2.7	ND U	1.3	ND U
Iron	300	43	ND U	38	23	ND U	ND U	20	30	390	29
Lead	5	ND U	ND U	ND U	2.2	ND U	1.2	ND U	ND U	ND U	ND U
Magnesium	N/A	7200	20000	18000	21000	20000	19000	24000	27000	28000	25000
Manganese	50	38	6.4	310	11	6.4	3.6	6.8	47	400	50
Nickel	N/A	2.3	1.2	4.4	6.9	1.7	ND U	4.1	ND U	ND U	ND U
Potassium	N/A	7700	1300	2400	1500	1300	1300	1500	1600	2300	1800
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	42000	13000	20000	13000	13000	11000	12000	15000	26000	23000
Vanadium	N/A	9.2	6.4	1.1	6.4	6.4	5.5	6.8	3.8	ND U	2.7
Zinc	N/A	31	16	8.5	22	16	9.8	12	2	3.5	ND U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-DUP-02	CDE-OU3-BLSR1-MW14D-3	CDE-OU3-BLSR1-MW14S-2	CDE-OU3-BLSR1-MW14S-3	CDE-OU3-BLSR1-MW15D-1	CDE-OU3-BLSR1-MW15D-2	CDE-OU3-BLSR1-MW15S-1	CDE-OU3-BLSR1-MW15S-2	CDE-OU3-BLSR1-FPW-1	CDE-OU3-BLSR1-FPW-2
LOCATION (WELL ID)		MW-14D-2	MW-14D-3	MW-14S-2	MW-14S-3	MW-15D-1	MW-15D-2	MW-15S-1	MW-15S-2	FPW-1	FPW-2
DEPTH (FT)		123-133	199-209	41-46	55-60	125-135	185-195	30-40	70-80	31-41	46-51
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/27/2016	12/27/2016	12/27/2016	12/27/2016	1/3/2017	1/3/2017	12/22/2016	12/22/2016	1/3/2017	1/3/2017
Aluminum	50	ND U	ND U	ND U	46	ND U	ND U	ND U	ND U	ND U	ND U
Arsenic	3	3.4	2.4	1.3	1.8	2.7	2.5	ND U	3.4	2	2.4
Barium	2,000	82	60	1200	700	74	54	700	160	600	190
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	58000	56000	88000	88000	54000	56000	120000	56000	81000	96000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	3	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	1	2	ND U	ND U	ND U	1.6	ND U	ND U
Iron	300	27	ND U	ND U	54	ND U	ND U	ND U	ND U	190	42
Lead	5	ND U	2	2.1	2.7	ND U	1.2	3	1.3	ND U	ND U
Magnesium	N/A	25000	25000	22000	22000	22000	24000	13000	21000	17000	26000
Manganese	50	51	9.4	550	730	5.4	19	7	6.2	1500	410
Nickel	N/A	ND U	ND U	ND U	1.8	ND U	ND U	ND U	ND U	2.9	15
Potassium	N/A	1800	1600	1800	2300	1500	1500	1100	1200	2300	1700
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	23000	22000	20000	20000	15000	15000	13000	12000	27000	20000
Vanadium	N/A	2.8	6.4	ND U	ND U	6.7	6.6	4.2	5.5	ND U	4.2
Zinc	N/A	ND U	2	4.1	6.4	4.5	3.3	2	4.6	ND U	ND U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-FPW-3	CDE-OU3-BLSR1-FPW-4	CDE-OU3-BLSR1-FPW-5	CDE-OU3-BLSR1-FPW-6	CDE-OU3-BLSR1-FPW-7	CDE-OU3-BLSR1-FPW-8	CDE-OU3-BLSR1-FPW-9	CDE-OU3-BLSR1-MW-16-1	CDE-OU3-BLSR1-MW-16-2	CDE-OU3-BLSR1-MW-16-3	CDE-OU3-BLSR1-MW-16-4
LOCATION (WELL ID)		FPW-3	FPW-4	FPW-5	FPW-6	FPW-7	FPW-8	FPW-9	MW-16-1	MW-16-2	MW-16-3	MW-16-4
DEPTH (FT)		100-110	125-135	180-190	200-205	235-245	268-278	300-310	20-30	40-50	85-95	108-118
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/3/2017	1/3/2017	1/3/2017	1/4/2017	1/3/2017	1/3/2017	1/3/2017	12/28/2016	12/28/2016	12/28/2016	12/28/2016
Aluminum	50	ND U	ND U	ND U	16	31	ND U	47	130	ND U	ND U	ND U
Arsenic	3	3.1	4	4.7	4.7	4.9	4.1	2.2	1.2	1.2	3.5	2.8
Barium	2,000	110	140	150	120	92	91	59	590	560	81	110
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	62000	57000	52000	43000	44000	54000	50000	60000	62000	54000	62000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	1.2	ND U	ND U	1.1	1.4	2.7	ND U	ND U
Iron	300	22	22	47	21	20	ND U	ND U	93	ND U	ND U	ND U
Lead	5	ND U	ND U	ND U	ND U	ND U	ND U	3.6	ND U	ND U	ND U	ND U
Magnesium	N/A	27000	24000	25000	21000	21000	25000	25000	12000	15000	24000	26000
Manganese	50	110	130	890	170	150	88	54	160	69	36	28
Nickel	N/A	3.2	1.7	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	1700	1500	1500	1600	1400	1400	1400	1900	1700	1900	1800
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	17000	16000	14000	14000	12000	14000	15000	45000	23000	18000	16000
Vanadium	N/A	8.7	12	5.8	8	9.3	8.8	6.4	2.2	2.7	8.3	8.5
Zinc	N/A	9.2	6	2.3	5.3	ND U	3.3	6.1	ND U	4.2	3.1	2.4

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW-16-5	CDE-OU3-BLSR1-MW-16-6	CDE-OU3-BLSR1-MW-16-7	CDE-OU3-BLSR1-MW17-1	CDE-OU3-BLSR1-MW17-2	CDE-OU3-BLSR1-MW17-3	CDE-OU3-BLSR1-MW18-1	CDE-OU3-BLSR1-MW18-2	CDE-OU3-BLSR1-MW19-1	CDE-OU3-BLSR1-MW19-2
LOCATION (WELL ID)		MW-16-5	MW-16-6	MW-16-7	MW-17-1	MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1	MW-19-2
DEPTH (FT)		135-145	170-180	195-205	170-180	205-215	235-245	160-170	210-220	65-75	132-142
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		12/28/2016	12/28/2016	12/28/2016	1/5/2017	1/5/2017	1/5/2017	1/6/2017	1/6/2017	1/19/2017	1/19/2017
Aluminum	50	16	23	ND U	ND U	ND U	22	ND U	ND U	41	ND U
Arsenic	3	4.6	5	4.8	2.5	3.3	4.8	3.8	2.6	1.7	2.8
Barium	2,000	74	64	150	59	49	71	53	52	52	60
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	57000	55000	52000	55000	58000	55000	49000	50000	61000	42000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	5.2	1.6	1.6	ND U	ND U	ND U	ND U	4.5	ND U	1.6
Iron	300	22	22	ND U	ND U	ND U	24	ND U	ND U	46	ND U
Lead	5	1	3.5	ND U	1.8	ND U	3.4	2.6	8.4	ND U	6.3
Magnesium	N/A	25000	24000	23000	24000	24000	23000	24000	25000	21000	19000
Manganese	50	53	45	3	2.8	3.1	49	4.5	1.3	28	3.9
Nickel	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	5.8
Potassium	N/A	1700	1500	1500	1500	1500	1800	1600	1600	1300	1300
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	16000	16000	13000	16000	18000	19000	17000	18000	14000	10000
Vanadium	N/A	5.9	10	14	8.9	11	6.7	11	10	6.3	12
Zinc	N/A	7.9	3.2	3.4	6.2	11	6.9	13	21	ND U	10

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW19-3	CDE-OU3-BLSR1-MW19-4	CDE-OU3-BLSR1-MW19-5	CDE-OU3-BLSR1-MW19-6	CDE-OU3-BLSR1-MW19-7	CDE-OU3-BLSR1-DUP-13	CDE-OU3-BLSR1-MW20-1	CDE-OU3-BLSR1-MW20-2	CDE-OU3-BLSR1-MW20-3	CDE-OU3-BLSR1-MW20-4	CDE-OU3-BLSR1-MW20-5
LOCATION (WELL ID)		MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7	MW-19-7	MW-20-1	MW-20-2	MW-20-3	MW-20-4	MW-20-5
DEPTH (FT)		200-210	257-267	367-377	480-490	545-555	545-555	25-35	85-95	125-135	175-185	205-215
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/11/2017	1/11/2017	1/12/2017	1/12/2017	1/11/2017
Aluminum	50	ND U	ND U	ND U	ND U	ND U	ND U	25	ND U	ND U	ND U	16
Arsenic	3	2.5	2.7	4	2.6	3	2.9	1.6	2.1	2.6	4.3	4.2
Barium	2,000	29	25	18	7.1	8.2	8	720	130	140	170	120
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	49000	50000	74000	490000	510000	510000	160000	66000	58000	46000	45000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Iron	300	ND U	ND U	ND U	22	ND U	ND U	5400	ND U	ND U	ND U	ND U
Lead	5	ND U	3.5	6.4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	1.3
Magnesium	N/A	26000	27000	34000	110000	100000	100000	40000	21000	21000	22000	24000
Manganese	50	28	37	28	160	350	360	1500	12	3.1	9.5	5.6
Nickel	N/A	ND U	2.4	ND U	ND U	ND U	ND U	3	ND U	ND U	ND U	ND U
Potassium	N/A	1400	1400	1500	4000	3600	3600	6000	1800	1400	1700	1600
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	16000	20000	25000	100000	75000	76000	270000	23000	16000	13000	15000
Vanadium	N/A	11	9.6	17	6.3	9.4	9.4	1.5	9.9	12	13	11
Zinc	N/A	2.5	13	8.8	3	ND U	ND U	12	8.6	5.2	5.5	ND U

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW20-6	CDE-OU3-BLSR1-MW20-7	CDE-OU3-BLSR1-MW20-8	CDE-OU3-BLSR1-MW21-1	CDE-OU3-BLSR1-MW21-2	CDE-OU3-BLSR1-MW21-3	CDE-OU3-BLSR1-MW21-4	CDE-OU3-BLSR1-MW21-5	CDE-OU3-BLSR1-MW21-6	CDE-OU3-BLSR1-MW21-7	CDE-OU3-BLSR1-MW21-8
LOCATION (WELL ID)		MW-20-6	MW-20-7	MW-20-8	MW-21-1	MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8
DEPTH (FT)		250-260	297-307	355-365	50-60	87-97	150-160	205-215	260-270	428-438	485-495	505-515
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/11/2017	1/13/2017	1/13/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017	1/19/2017	1/19/2017	1/24/2017	1/24/2017
Aluminum	50	ND U	ND U	ND U	31	48	ND U	ND U	240	ND U	ND U	ND U
Arsenic	3	3.5	4.7	8.8	3	3.3	3.4	3.4	3.3	2.3	3.8	3.1
Barium	2,000	75	36	33	15	15	15	14	18	5.9	7.2	8.3
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	46000	57000	56000	130000	160000	150000	150000	160000	450000	500000	470000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	12	2.9	3.3	2	9.2	53	1.7	1.5
Iron	300	ND U	ND U	ND U	38	62	ND U	ND U	310	ND U	ND U	ND U
Lead	5	ND U	ND U	2.4	9.4	7.1	6.3	5.8	5	7	ND U	ND U
Magnesium	N/A	25000	25000	26000	37000	40000	37000	36000	40000	79000	93000	100000
Manganese	50	2.1	2.5	4.3	4.9	4	1.5	2.8	7.3	390	330	300
Nickel	N/A	ND U	ND U	ND U	57	ND U	3.4	4.2	9.8	ND U	1.2	7.4
Potassium	N/A	1500	1700	1600	1800	1800	1800	1700	1900	2800	3000	3000
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	16000	19000	18000	37000	39000	38000	37000	39000	72000	74000	75000
Vanadium	N/A	12	17	22	11	11	12	12	12	8.4	3.4	5.8
Zinc	N/A	4.7	5.9	8.6	140	21	22	23	36	84	6.9	10

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW22-1	CDE-OU3-BLSR1-MW22-2	CDE-OU3-BLSR1-MW22-3	CDE-OU3-BLSR1-DUP-08	CDE-OU3-BLSR1-MW22-4	CDE-OU3-BLSR1-MW23-1	CDE-OU3-BLSR1-MW23-2	CDE-OU3-BLSR1-MW23-3	CDE-OU3-BLSR1-MW23-4	CDE-OU3-BLSR1-MW23-5	CDE-OU3-BLSR1-MW23-6
LOCATION (WELL ID)		MW-22-1	MW-22-2	MW-22-3	MW-22-3	MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4	MW-23-5	MW-23-6
DEPTH (FT)		45-55	125-135	210-220	210-220	305-315	60-70	120-130	170-180	226-236	258-268	316-326
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017
Aluminum	50	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Arsenic	3	1.3	2.3	5.5	5.6	11	ND U	1.1	1.5	2.2	3.1	4.2
Barium	2,000	160	190	190	190	110	170	140	170	150	71	66
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	56000	65000	50000	51000	36000	72000	69000	72000	62000	51000	45000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	44	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	ND U	ND U	5	ND U	ND U	ND U	ND U	ND U
Iron	300	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	190	ND U
Lead	5	ND U	ND U	ND U	ND U	2.9	1.6	ND U	ND U	3.8	3	5.5
Magnesium	N/A	10000	25000	27000	27000	19000	26000	25000	26000	30000	29000	24000
Manganese	50	ND U	1.5	1.8	1	14	3	3.2	1.9	ND U	2.8	14
Nickel	N/A	ND U	ND U	ND U	ND U	1.1	ND U	ND U	ND U	ND U	14	ND U
Potassium	N/A	1000	1500	1600	1600	1300	1400	1500	1600	1400	1400	1300
Selenium	N/A	2	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	18000	12000	13000	13000	12000	16000	19000	20000	14000	15000	16000
Vanadium	N/A	3.8	9.7	14	14	11	6.2	8.2	8.1	10	14	16
Zinc	N/A	5.7	3.1	ND U	ND U	3.8	4.1	2	ND U	9.8	6.9	16

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW23-7	CDE-OU3-BLSR1-MW23-8	CDE-OU3-BLSR1-MW23-9	CDE-OU3-BLSR1-MW24-1	CDE-OU3-BLSR1-MW24-2	CDE-OU3-BLSR1-MW24-3	CDE-OU3-BLSR1-MW24-4
LOCATION (WELL ID)		MW-23-7	MW-23-8	MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4
DEPTH (FT)		350-360	406-416	444-454	85-95	135-145	240-250	332-342
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/18/2017	1/18/2017	1/18/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017
Aluminum	50	ND U	18	ND U	15	ND U	39	18
Arsenic	3	4	2.3	2.7	2.3	2.4	3.4	3.1
Barium	2,000	54	25	6.9	89	100	25	15
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	47000	110000	210000	52000	83000	65000	77000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	1.1	ND U	ND U	ND U
Iron	300	ND U	65	ND U	29	ND U	42	ND U
Lead	5	1.4	1.7	ND U	6.5	ND U	1.8	ND U
Magnesium	N/A	25000	43000	75000	22000	25000	31000	37000
Manganese	50	ND U	51	14	120	29	96	26
Nickel	N/A	ND U	ND U	ND U	1.2	ND U	1.4	ND U
Potassium	N/A	1200	1600	2700	2200	1800	1800	1700
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	15000	37000	60000	15000	27000	18000	26000
Vanadium	N/A	16	9.3	14	15	10	16	14
Zinc	N/A	19	11	ND U	18	2.3	12	6.8

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW24-5	CDE-OU3-BLSR1-DUP-16	CDE-OU3-BLSR1-MW24-6	CDE-OU3-BLSR1-MW25-1	CDE-OU3-BLSR1-MW25-2	CDE-OU3-BLSR1-MW25-3	CDE-OU3-BLSR1-MW25-4	CDE-OU3-BLSR1-MW25-5	CDE-OU3-BLSR1-MW25-6	CDE-OU3-BLSR1-MW26-1
LOCATION (WELL ID)		MW-24-5	MW-24-5	MW-24-6	MW-25-1	MW-25-2	MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1
DEPTH (FT)		370-380	370-380	455-465	85-95	175-185	200-210	275-285	345-355	435-445	95-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/23/2017	1/23/2017	1/23/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017
Aluminum	50	ND U	15	23	ND U	ND U	ND U	ND U	15	210	40
Arsenic	3	3.2	3.4	3.7	1.1	2.4	2.6	2.5	3.7	5.3	1.8
Barium	2,000	19	18	15	170	400	180	270	80	93	240
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	60000	60000	110000	58000	51000	56000	64000	45000	41000	64000
Chromium	70	ND U	ND U	ND U	1.1	ND U	ND U	ND U	ND U	1.1	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	ND U	ND U	ND U	ND U	ND U	ND U	1	ND U	ND U	ND U
Iron	300	ND U	ND U	21	ND U	ND U	ND U	ND U	ND U	210	86
Lead	5	3	2.3	1.1	1.1	1.9	1.5	1.1	2.3	1.8	2.7
Magnesium	N/A	28000	30000	47000	13000	22000	23000	25000	22000	20000	11000
Manganese	50	3.6	3.9	120	ND U	10	ND U	12	7.4	8.3	4.1
Nickel	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	1600	1600	1800	1600	1600	1400	1600	1600	1500	1400
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	24000	26000	39000	14000	9500	12000	11000	14000	16000	11000
Vanadium	N/A	14	15	16	7.9	12	13	11	20	22	9.4
Zinc	N/A	9.1	7.2	5	18	12	9.5	16	9.8	4.5	15

TABLE 4-3a
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 1
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR1-MW26-2	CDE-OU3-BLSR1-MW26-3	CDE-OU3-BLSR1-MW26-4	CDE-OU3-BLSR1-MW26-5	CDE-OU3-BLSR1-DUP-14	CDE-OU3-BLSR1-MW26-6	CDE-OU3-BLSR1-MW27-1	CDE-OU3-BLSR1-MW27-2	CDE-OU3-BLSR1-MW27-3	CDE-OU3-BLSR1-MW27-4	CDE-OU3-BLSR1-MW27-5
LOCATION (WELL ID)		MW-26-2	MW-26-3	MW-26-4	MW-26-5	MW-26-5	MW-26-6	MW-27-1	MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		175-185	255-265	305-320	385-395	385-395	455-465	85-95	180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/20/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017	1/23/2017
Aluminum	50	48	ND U	ND U	ND U	ND U	45	20	ND U	ND U	ND U	18
Arsenic	3	9.1	7.5	5.8	6.7	6	7	2.5	3.2	6.5	7.5	5.7
Barium	2,000	160	110	72	29	27	22	230	250	250	35	36
Cadmium	4	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Calcium	N/A	57000	45000	44000	61000	50000	67000	63000	69000	38000	57000	58000
Chromium	70	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Cobalt	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Copper	N/A	1.1	ND U	ND U	ND U	ND U	1.5	ND U	1.2	ND U	ND U	ND U
Iron	300	80	ND U	ND U	ND U	ND U	46	50	24	ND U	ND U	ND U
Lead	5	1.4	1.1	1.1	ND U	ND U	1.1	1	ND U	1.5	ND U	3
Magnesium	N/A	17000	14000	15000	22000	20000	27000	14000	18000	13000	22000	21000
Manganese	50	340	50	42	7.1	6.5	27	37	70	75	55	45
Nickel	N/A	3.2	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Potassium	N/A	1800	1600	2200	1600	1500	1500	3200	2400	1800	1600	1700
Selenium	N/A	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U	ND U
Sodium	N/A	11000	9400	12000	18000	17000	21000	13000	11000	8300	13000	19000
Vanadium	N/A	9.2	21	16	20	19	24	10	11	19	20	20
Zinc	N/A	3.8	4	2.4	6.5	6.3	9	5.4	2.6	3.2	4.5	14

Notes:
ND = non-detect
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.
MW-06 was not sampled due to well damage.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW02A-SH	CDE-OU3-BLSR2-MW03-SH	CDE-OU3-BLSR2-MW04-SH	CDE-OU3-BLSR2-DUPV-01	CDE-OU3-BLSR2-MW05-SH	CDE-OU3-BLSR2-MW06-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04	MW-04	MW-05	MW-06
DEPTH (FT)		24-49	24-49	17-32	29-49	29-49	25-45.5	29-44
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/11/2017	7/12/2017	7/12/2017	7/12/2017	7/10/2017	7/12/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
1,1,2-Trichloroethane	3	5 U	5 U	100 U	100 U	100 U	5 U	50 U
1,1-Dichloroethane	N/A	1.1 J	5 U	100 U	100 U	100 U	5 U	50 U
1,1-Dichloroethene	1	5 U	5 U	100 U	100 U	100 U	5 U	50 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
1,2,4-Trichlorobenzene	9	5 U	5 U	120	100 U	100 U	5 U	73
1,2-Dichlorobenzene	N/A	0.89 J	5 U	100 U	100 U	100 U	5 U	50 U
1,2-Dichloroethane	2	5 U	5 U	100 U	100 U	100 U	5 U	50 U
1,3-Dichlorobenzene	N/A	0.87 J	5 U	12 J	6.8 J	7.2 J	5 U	50 U
1,4-Dichlorobenzene	75	1.3 J	5 U	100 U	13 J	13 J	5 U	50 U
2-Butanone	N/A	10 U	10 U	200 U	200 U	200 U	10 U	100 U
Acetone	N/A	10 U	10 U	200 U	200 U	200 U	10 U	100 U
Benzene	1	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Bromodichloromethane	1	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Carbon disulfide	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Carbon tetrachloride	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Chlorobenzene	50	0.56 J	5 U	7.9 J	9.3 J	9.3 J	5 U	1.8 J
Chloroform	70	5 U	5 U	100 U	100 U	100 U	5 U	50 U
cis-1,2-Dichloroethene	70	600	0.93 J	11000	11000	11000	4 J	3900
Methyl tert-butyl ether	70	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Methylene chloride	3	1.5 J	5 U	23 J	23 J	100 U	5 U	50 U
o-Xylene	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Tetrachloroethene	1	0.25 J	5 U	44 J	8.2 J	8.1 J	5.7	3000
Toluene	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
trans-1,2-Dichloroethene	100	3.9 J	5 U	51 J	46 J	45 J	5 U	13 J
Trichloroethene	1	360	5 U	7600 J	9000	8900	19	3900
Trichlorofluoromethane	N/A	5 U	5 U	100 U	100 U	100 U	5 U	50 U
Vinyl chloride	1	46	0.5 J	120	15 J	16 J	5 U	8.5 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW07-SH	CDE-OU3-BLSR2-MW08-SH	CDE-OU3-BLSR2-MW09-SH	CDE-OU3-BLSR2-MW10-SH	CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT1-1
LOCATION (WELL ID)		MW-07	MW-08	MW-09	MW-10	MW-11	MW-11	MW-12	ERT1-1
DEPTH (FT)		43-58	42-57.5	29-54	37-52	34-59	34-59	35-60	24-29
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/11/2017	7/11/2017	7/10/2017	7/11/2017	7/11/2017	7/11/2017	7/17/2017
1,1,1-Trichloroethane	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
1,1,2-Trichloroethane	3	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
1,1-Dichloroethane	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
1,1-Dichloroethene	1	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
1,2,3-Trichlorobenzene	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	360	5 U
1,2,4-Trichlorobenzene	9	100 U	220	5 U	5 U	1300 U	2500 U	1400	5 U
1,2-Dichlorobenzene	N/A	11 J	130 U	2.7 J	5 U	1300 U	2500 U	57 J	5 U
1,2-Dichloroethane	2	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
1,3-Dichlorobenzene	N/A	9.7 J	130 U	2.4 J	5 U	1300 U	2500 U	58 J	5 U
1,4-Dichlorobenzene	75	17 J	130 U	29	5 U	1300 U	2500 U	110 J	5 U
2-Butanone	N/A	200 U	250 U	10 U	10 U	2500 U	5000 U	250 U	10 U
Acetone	N/A	200 U	250 U	10 U	10 U	2500 U	5000 U	250 U	10 U
Benzene	1	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	0.56 J
Bromodichloromethane	1	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
Carbon disulfide	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 UJ
Carbon tetrachloride	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
Chlorobenzene	50	31 J	130 U	39	5 U	1300 U	2500 U	9.8 J	5 U
Chloroform	70	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
cis-1,2-Dichloroethene	70	2500	6900	4.9 J	5 U	140000	230000	13000	5 U
Methyl tert-butyl ether	70	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
Methylene chloride	3	13 J	28 J	5 U	5 U	240 J	270 J	130 U	5 U
o-Xylene	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
Tetrachloroethene	1	100 U	5.7 J	55	5 U	1300 U	2500 U	7.1 J	0.73 J
Toluene	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
trans-1,2-Dichloroethene	100	9.2 J	46 J	0.2 J	5 U	580 J	850 J	50 J	5 U
Trichloroethene	1	6300	14000	35	0.58 J	43000	77000	10000	1.2 J
Trichlorofluoromethane	N/A	100 U	130 U	5 U	5 U	1300 U	2500 U	130 U	5 U
Vinyl chloride	1	570	130 U	5 U	5 U	530 J	800 J	71 J	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT1-2	CDE-OU3-BLSR2-ERT1-3	CDE-OU3-BLSR2-ERT1-4	CDE-OU3-BLSR2-ERT1-5	CDE-OU3-BLSR2-ERT1-6	CDE-OU3-BLSR2-ERT1-7	CDE-OU3-BLSR2-DUP-03	CDE-OU3-BLSR2-ERT1-8
LOCATION (WELL ID)		ERT1-2	ERT1-3	ERT1-4	ERT1-5	ERT1-6	ERT1-7	ERT1-7	ERT1-8
DEPTH (FT)		33-43	46-56	59-64	67-77	100-105	112-117	112-117	135-140
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	0.62 J	0.37 J	0.43 J	5 U	5 U	5 U	5 U	1.9 J
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	1.1 J	5 U	2.7 J	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	0.51 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	N/A	5 U	5 U	5 U	0.24 J	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	1.2 J	0.9 J	0.84 J	0.78 J	0.78 J	0.81 J	0.91 J	1.5 J
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT2-1	CDE-OU3-BLSR2-ERT2-2	CDE-OU3-BLSR2-ERT2-4	CDE-OU3-BLSR2-ERT2-5	CDE-OU3-BLSR2-ERT2-6	CDE-OU3-BLSR2-ERT2-7	CDE-OU3-BLSR2-DUPV-03	CDE-OU3-BLSR2-ERT3-1
LOCATION (WELL ID)		ERT2-1	ERT2-2	ERT2-4	ERT2-5	ERT2-6	ERT2-7	ERT2-7	ERT3-1
DEPTH (FT)		25-35	40-50	70-75	97-107	113-123	127-137	127-137	27-37
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/26/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	0.37 J	0.92 J	0.6 J	1.2 J	1 J	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	10 U	0.39 J	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	0.2 J	5 U	0.42 J	0.41 J	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	20 U	20 U	10 U
Acetone	N/A	10 U	10 U	10 U	10 U	10 U	20 U	20 U	1.6 J
Benzene	1	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Carbon disulfide	N/A	5 UJ	5 UJ	5 UJ	5 UJ	5 U	10 U	10 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
cis-1,2-Dichloroethene	70	6.3	4.2 J	24	55	14	160	160	5 U
Methyl tert-butyl ether	70	380	5 U	1.7 J	5 U	5 U	10 U	0.44 J	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	0.19 J	10 U	10 U	5 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Tetrachloroethene	1	0.83 J	1.2 J	5 U	0.83 J	0.93 J	6.8 J	7 J	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	0.23 J	10 U	10 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	0.96 J	1 J	5 U
Trichloroethene	1	270	410	220	340	82	890	890	5 U
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Vinyl chloride	1	5 UJ	5 U	3.7 J	5 UJ	5 U	6.5 J-	10 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT3-2	CDE-OU3-BLSR2-ERT3-3	CDE-OU3-BLSR2-ERT3-5	CDE-OU3-BLSR2-ERT3-6	CDE-OU3-BLSR2-ERT4-1	CDE-OU3-BLSR2-ERT4-2	CDE-OU3-BLSR2-ERT4-3	CDE-OU3-BLSR2-ERT4-4
LOCATION (WELL ID)		ERT3-2	ERT3-3	ERT3-5	ERT3-6	ERT4-1	ERT4-2	ERT4-3	ERT4-4
DEPTH (FT)		55-65	90-105	124-134	138-148	27-37	46-56	61-66	83-88
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/20/2017	7/20/2017	7/19/2017	7/19/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	0.54 J	0.71 J	5 U	5 U	5 U	0.25 J
1,1-Dichloroethane	N/A	5 U	0.33 J	0.73 J	0.88 J	5 U	5 U	5 U	0.36 J
1,1-Dichloroethene	1	5 U	1.7 J	1.2 J	1.3 J	5 U	5 U	5 U	2.2 J
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8 J
Acetone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	0.52 J	0.44 J	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	0.51 J	58	230	370	13	5.6	4.1 J	59
Methyl tert-butyl ether	70	0.41 J	0.92 J	0.49 J	0.45 J	5 U	5 U	5 U	0.47 J
Methylene chloride	3	0.17 J	5 U	5 U	5 U	0.58 J	0.65 J	5 U	5 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	5 U	0.78 J	3.6 J	5.1	0.43 J	0.23 J	0.34 J	1.9 J
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	0.38 J	1.6 J	2.8 J	5 U	5 U	5 U	0.44 J
Trichloroethene	1	0.65 J	160	61	53	35	17	7	100
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	0.9 J	0.8 J	5 U	5 U	5 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT4-5	CDE-OU3-BLSR2-ERT4-6	CDE-OU3-BLSR2-ERT4-7	CDE-OU3-BLSR2-ERT5-1	CDE-OU3-BLSR2-ERT5-2	CDE-OU3-BLSR2-DUPV-05	CDE-OU3-BLSR2-ERT5-3	CDE-OU3-BLSR2-ERT5-4
LOCATION (WELL ID)		ERT4-5	ERT4-6	ERT4-7	ERT5-1	ERT5-2	ERT5-2	ERT5-3	ERT5-4
DEPTH (FT)		91-106	111-116	128-138	24-34	37-47	37-47	50-60	77-87
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/20/2017	7/20/2017	7/20/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/24/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	0.22 J	0.25 J	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	0.25 J	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	N/A	1.5 J	10 U	10 U	10 U	10 U	10 U	10 U	1.7 J
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	0.39 J	0.47 J	0.68 J	5 U	5 U	5 U	5 U	0.4 J
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	42	47	33	5 U	5 U	5 U	5 U	0.18 J
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	0.59 J	0.59 J	0.54 J	0.5 J	0.53 J	5 U	0.52 J	5 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	2.1 J	2.2 J	2.3 J	5 U	5 U	5 U	5 U	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	0.33 J	0.45 J	0.29 J	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	30	13	4.7 J	5 U	5 U	5 U	1 J	1.6 J
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT5-5	CDE-OU3-BLSR2-ERT5-6	CDE-OU3-BLSR2-DUP-05	CDE-OU3-BLSR2-ERT6-1	CDE-OU3-BLSR2-DUP-02	CDE-OU3-BLSR2-ERT6-2	CDE-OU3-BLSR2-ERT6-3	CDE-OU3-BLSR2-ERT6-4
LOCATION (WELL ID)		ERT5-5	ERT5-6	ERT5-6	ERT6-1	ERT6-1	ERT6-2	ERT6-3	ERT6-4
DEPTH (FT)		93-98	120-130	120-130	26-36	26-36	75-85	93-103	107-117
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/24/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	1	5 U	1.2 J	1.1 J	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U
Carbon tetrachloride	N/A	0.34 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	5 U	5 U	0.4 J	5 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	0.72 J	3.8 J	3.9 J	4.2 J	4.6 J	2.5 J	5 U	2.6 J
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	5 U	0.83 J	0.81 J	5 U	5 U	5 U	5 U	5 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	1	4.1 J	40	40	5 U	5 U	0.77 J	0.66 J	7
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT6-5	CDE-OU3-BLSR2-ERT7-1	CDE-OU3-BLSR2-ERT7-2	CDE-OU3-BLSR2-ERT7-3	CDE-OU3-BLSR2-ERT7-4	CDE-OU3-BLSR2-ERT7-5	CDE-OU3-BLSR2-ERT8-1-RS	CDE-OU3-BLSR2-ERT8-2-RS
LOCATION (WELL ID)		ERT6-5	ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2
DEPTH (FT)		128-138	25-35	45-55	65-75	100-110	130-140	17-27	31-41
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/13/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	8/11/2017	8/11/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	0.3 U
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U
Acetone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	1.6 J	1.1 J+
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	0.3 U
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	0.018 J	0.042 J
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Chloroform	70	5 U	5 U	0.75 J	5 U	5 U	5 U	0.72	0.91
cis-1,2-Dichloroethene	70	5	5 U	0.35 J	0.47 J	0.54 J	12	0.5 U	0.5 U
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.66 J	0.25 J	0.37 J	5 U	5 U	3.1 J	0.3 U	0.3 U
Toluene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Trichloroethene	1	52	5 U	0.35 J	0.95 J	0.95 J	40	0.3 U	0.3 U
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U	0.3 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT8-3-RS	CDE-OU3-BLSR2-DUP-09-RS	CDE-OU3-BLSR2-ERT8-5-RS	CDE-OU3-BLSR2-ERT8-6-RS	CDE-OU3-BLSR2-ERT8-7-RS	CDE-OU3-BLSR2-MW13-1	CDE-OU3-BLSR2-MW13-2	CDE-OU3-BLSR2-MW13-3
LOCATION (WELL ID)		ERT8-3	ERT8-3	ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-2	MW-13-3
DEPTH (FT)		44-54	44-54	87-97	107-112	135-145	18-28	35-45	63-73
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/11/2017	8/11/2017	8/11/2017	8/11/2017	8/11/2017	7/21/2017	7/21/2017	7/21/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.62 J	1.2 J	1.7 J
1,1-Dichloroethene	1	0.3 U	0.3 U	0.011 J	0.02 J	0.037 J	5 U	5 U	9.9
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.78 J
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
2-Butanone	N/A	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U
Acetone	N/A	1.3 J	0.98 J	2.5 J	1.4 J	1.9 J	10 U	1.8 J	2.4 J
Benzene	1	0.3 U	0.3 U	0.3 U	0.047 J	0.012 J	5 U	5 U	5 U
Bromodichloromethane	1	0.028 J	0.023 J	0.012 J	0.3 U	0.3 U	5 U	5 U	5 U
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
Chloroform	70	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	67	150	210
Methyl tert-butyl ether	70	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.9 J	2.9 J	5.3
Methylene chloride	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.4 J	0.49 J	0.23 J
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
Tetrachloroethene	1	0.042 J	0.035 J	0.3 U	0.3 U	0.3 U	5 U	0.42 J	1.1 J
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.61 J	0.24 J	5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.21 J	0.47 J	0.5 J
Trichloroethene	1	0.3 U	0.3 U	0.3 U	0.039 J	0.68	16	58	110
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U
Vinyl chloride	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U	1.4 J	2.3 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW13-4	CDE-OU3-BLSR2-MW13-5	CDE-OU3-BLSR2-MW13-6	CDE-OU3-BLSR2-MW13-7	CDE-OU3-BLSR2-MW14S-1	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3	CDE-OU3-BLSR2-MW14D-1
LOCATION (WELL ID)		MW-13-4	MW-13-5	MW-13-6	MW-13-7	MW-14S-1	MW-14S-2	MW-14S-3	MW-14D-1
DEPTH (FT)		95-105	115-125	150-160	230-240	30-35	41-46	55-60	80-85
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	2500 U	77 J	47 J	10 U
1,1-Dichloroethane	N/A	1.7 J	1.8 J	1.7 J	1.1 J	2500 U	2500 U	1300 U	10 U
1,1-Dichloroethene	1	10	12	11	5 U	2500 U	460 J	260 J	2.7 J
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	15
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	64
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	19
1,2-Dichloroethane	2	0.82 J	0.97 J	0.94 J	5 U	2500 U	2500 U	1300 U	10 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	96
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	120
2-Butanone	N/A	10 U	10 U	10 U	10 U	5000 U	5000 U	2500 U	20 U
Acetone	N/A	1.8 J	2.5 J	2.3 J	1.9 J	5000 U	5000 U	2500 U	20 U
Benzene	1	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	2.4 J
Bromodichloromethane	1	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
Chlorobenzene	50	5 U	5 U	0.22 J	5 U	130 J	2500 U	1300 U	370
Chloroform	70	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
cis-1,2-Dichloroethene	70	200	140	140	63	170000	150000	100000	860
Methyl tert-butyl ether	70	5.6	5.7	7.6	8.1	2500 U	2500 U	1300 U	10 U
Methylene chloride	3	0.24 J	0.24 J	0.23 J	0.41 J	2500 U	2500 U	1300 U	10 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
Tetrachloroethene	1	1.3 J	1.2 J	1.4 J	0.65 J	2500 U	2500 U	1300 U	0.54 J
Toluene	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	1.4 J
trans-1,2-Dichloroethene	100	0.43 J	0.36 J	0.27 J	5 U	520 J	510 J	310 J	3.4 J
Trichloroethene	1	110	120	110	56	26000	120000	54000	110
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	2500 U	2500 U	1300 U	10 U
Vinyl chloride	1	2.3 J	3.4 J	1.5 J	5 U	2600	760 J	500 J	99

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW14D-2	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3	CDE-OU3-BLSR2-MW15S-1	CDE-OU3-BLSR2-MW15S-2	CDE-OU3-BLSR2-MW15D-1	CDE-OU3-BLSR2-DUPV-04	CDE-OU3-BLSR2-MW15D-2
LOCATION (WELL ID)		MW-14D-2	MW-14D-2	MW-14D-3	MW-15S-1	MW-15S-2	MW-15D-1	MW-15D-1	MW-15D-2
DEPTH (FT)		123-133	123-133	199-209	30-40	70-80	125-135	125-135	185-195
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/25/2017	7/25/2017	7/25/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017
1,1,1-Trichloroethane	N/A	5 U	5 UJ	5 U	100 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	100 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	0.6 J	0.44 J	0.52 J	100 U	5 U	5 U	5 U	0.29 J
1,1-Dichloroethene	1	1.7 J	1.4 J	1.6 J	100 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	53	50	15	100 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	120	110	54	100 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	16	15	7.3	100 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	100 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	75	70	39	100 U	0.25 J	5 U	5 U	5 U
1,4-Dichlorobenzene	75	130	120	43	100 U	5 U	5 U	5 U	5 U
2-Butanone	N/A	10 U	9.1 J	10 U	200 U	10 U	10 U	10 U	10 U
Acetone	N/A	10 U	10 U	10 U	37 J	2.5 J	10 U	10 U	10 U
Benzene	1	2.5 J	2 J	1.6 J	100 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	5 U	5 U	5 U	100 U	5 U	5 U	5 U	5 U
Carbon disulfide	N/A	5 U	5 U	5 U	100 U	5 U	5 U	5 U	5 UJ
Carbon tetrachloride	N/A	5 U	5 UJ	5 U	100 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	500	460	340 J	100 U	5 U	5 U	5 U	5 U
Chloroform	70	5 U	5 U	5 U	100 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	49	43	27	3300	110	6.5	6.4	16
Methyl tert-butyl ether	70	1.2 J	1.2 J+	0.61 J	100 U	5 U	5 U	5 U	5 U
Methylene chloride	3	5 U	5 U	5 U	100 U	5 U	0.43 J	5 U	0.41 J
o-Xylene	N/A	0.2 J	5 U	5 U	100 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	2 J	1.6 J	5 U	100 U	6	1.9 J	1.9 J	0.56 J
Toluene	N/A	1 J	0.88 J	0.93 J	100 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	100	0.26 J	5 U	5 U	11 J	1.2 J	5 U	5 U	5 U
Trichloroethene	1	27	21	18 J	8500	140	2 J	1.9 J	19
Trichlorofluoromethane	N/A	5 U	5 U	5 U	100 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	10	6.7	0.8 J	100 U	16	5 U	5 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW16-1	CDE-OU3-BLSR2-MW16-2	CDE-OU3-BLSR2-DUP-04	CDE-OU3-BLSR2-MW16-3	CDE-OU3-BLSR2-MW16-4	CDE-OU3-BLSR2-MW16-5	CDE-OU3-BLSR2-MW16-6	CDE-OU3-BLSR2-MW16-7
LOCATION (WELL ID)		MW-16-1	MW-16-2	MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6	MW-16-7
DEPTH (FT)		20-30	40-50	40-50	85-95	108-118	135-145	170-180	195-205
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017
1,1,1-Trichloroethane	N/A	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
1,1,2-Trichloroethane	3	5 U	10 U	0.41 J	50 U	4.3 J	2.4 J	0.31 J	5 U
1,1-Dichloroethane	N/A	0.79 J	1.4 J	1.2 J	50 U	50 U	50 U	0.49 J	1 J
1,1-Dichloroethene	1	5 U	10 U	4.4 J	50 U	50 U	50 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
1,2,4-Trichlorobenzene	9	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
1,2-Dichlorobenzene	N/A	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
1,2-Dichloroethane	2	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
1,3-Dichlorobenzene	N/A	0.51 J	0.46 J	0.43 J	50 U	50 U	50 U	5 U	0.22 J
1,4-Dichlorobenzene	75	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
2-Butanone	N/A	10 U	20 U	20 U	100 U	100 U	100 U	10 U	10 U
Acetone	N/A	10 U	20 U	20 U	100 U	100 U	100 U	10 U	10 U
Benzene	1	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
Bromodichloromethane	1	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
Carbon disulfide	N/A	5 UJ	10 U	10 U	50 U	50 U	50 U	5 U	5 U
Carbon tetrachloride	N/A	5 U	10 U	10 U	3.2 J	50 U	50 U	5 U	5 U
Chlorobenzene	50	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
Chloroform	70	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
cis-1,2-Dichloroethene	70	290	490	510	410	780	830	240	280
Methyl tert-butyl ether	70	0.29 J	10 U	10 U	50 U	50 U	50 U	0.91 J	3.4 J
Methylene chloride	3	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
o-Xylene	N/A	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
Tetrachloroethene	1	5 U	10 U	10 U	8.3 J	7.5 J	4.2 J	1.7 J	3 J
Toluene	N/A	5 U	10 U	10 U	50 U	50 U	50 U	5 U	5 U
trans-1,2-Dichloroethene	100	2.5 J	3.6 J	3 J	4.2 J	5.5 J	7.8 J	2.1 J	1.2 J
Trichloroethene	1	400	630	660	3400 J	4600	3900	120	340
Trichlorofluoromethane	N/A	5 U	10 U	10 U	50 U	50 U	50 U	0.35 J	5 U
Vinyl chloride	1	14	22 J-	19	50 U	50 U	50 U	5 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-FPW-1	CDE-OU3-BLSR2-FPW-2	CDE-OU3-BLSR2-FPW-3	CDE-OU3-BLSR2-FPW-4	CDE-OU3-BLSR2-FPW-5	CDE-OU3-BLSR2-FPW-6	CDE-OU3-BLSR2-FPW-7	CDE-OU3-BLSR2-FPW-8
LOCATION (WELL ID)		FPW-1	FPW-2	FPW-3	FPW-4	FPW-5	FPW-6	FPW-7	FPW-8
DEPTH (FT)		31-41	46-51	100-110	125-135	180-190	200-205	235-245	268-278
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017
1,1,1-Trichloroethane	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	3	10 U	1.2 J	6.8 J	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N/A	2.4 J	15	130 U	1.1 J	1.5 J	1.2 J	1 J	1.3 J
1,1-Dichloroethene	1	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	9	10 U	10 U	130 U	7.8	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	2	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	N/A	10 U	10 U	130 U	5 U	0.28 J	5 U	5 U	5 U
1,4-Dichlorobenzene	75	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	N/A	20 U	20 U	250 U	10 U	10 U	10 U	10 U	10 U
Acetone	N/A	20 U	20 U	250 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	1	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 UJ	5 U
Carbon tetrachloride	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	50	10 U	2.4 J	130 U	0.56 J	0.32 J	5 U	5 U	5 U
Chloroform	70	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	70	950	440	3200	320	98	48	38	69
Methyl tert-butyl ether	70	10 U	10 U	130 U	4.8 J	10	1.5 J	0.96 J	17
Methylene chloride	3	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	1	10 U	28	14 J	2.7 J	2 J	0.75 J	0.54 J	0.76 J
Toluene	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	0.41 J
trans-1,2-Dichloroethene	100	4.5 J	10 U	130 U	5 U	0.61 J	0.34 J	0.5 J	0.76 J
Trichloroethene	1	2.2 J	280	6900	350	61	38	33	52
Trichlorofluoromethane	N/A	10 U	10 U	130 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	1	320	15	81 J	78	5.5	5.1	5.9	16

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-FPW-9	CDE-OU3-BLSR2-DUPV-02	CDE-OU3-BLSR2-MW17-1	CDE-OU3-BLSR2-MW17-2	CDE-OU3-BLSR2-MW17-3	CDE-OU3-BLSR2-MW18-1	CDE-OU3-BLSR2-MW18-2	CDE-OU3-BLSR2-MW19-1
LOCATION (WELL ID)		FPW-9	FPW-9	MW-17-1	MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1
DEPTH (FT)		300-310	300-310	170-180	205-215	235-245	160-170	210-220	65-75
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/14/2017	7/14/2017	7/18/2017	7/18/2017	7/18/2017	7/13/2017	7/13/2017	8/1/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.36 J
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,1-Dichloroethane	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.4 J
1,1-Dichloroethene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.8
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5 U
Acetone	N/A	2.1 J	10 U	10 U	10 U	10 U	10 U	10 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.061 J
Bromodichloromethane	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.3 U
Carbon disulfide	N/A	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	0.5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
cis-1,2-Dichloroethene	70	24	29	120	110	350	2.1 J	3.8 J	4.4
Methyl tert-butyl ether	70	5 U	5 U	5 U	5 U	11	5 U	5 U	0.17 J
Methylene chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.17 J
o-Xylene	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U
Tetrachloroethene	1	0.19 J	0.34 J	2.6 J	1.1 J	0.69 J	0.5 J	0.67 J	2
Toluene	N/A	5 U	5 U	5 U	5 U	0.48 J	5 U	5 U	0.5 U
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	2.6 J	5 U	5 U	0.5 U
Trichloroethene	1	18	24	36	31	620	48	61	21
Trichlorofluoromethane	N/A	5 U	5 U	0.86 J	5 U	5 U	5 U	5 U	0.32 J
Vinyl chloride	1	3.8 J	1.5 J	4.3 J	4.2 J	200	5 U	5 U	0.11 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW19-2	CDE-OU3-BLSR2-MW19-3	CDE-OU3-BLSR2-MW19-4	CDE-OU3-BLSR2-MW19-5	CDE-OU3-BLSR2-MW19-6	CDE-OU3-BLSR2-MW19-7	CDE-OU3-BLSR2-DUPV-07	CDE-OU3-BLSR2-MW20-1
LOCATION (WELL ID)		MW-19-2	MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7	MW-19-7	MW-20-1
DEPTH (FT)		132-142	200-210	257-267	367-377	480-490	545-555	545-555	25-35
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	7/24/2017
1,1,1-Trichloroethane	N/A	0.61	0.42 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1-Dichloroethane	N/A	0.47 J	0.46 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,1-Dichloroethene	1	9.2 J+	4.2	0.31 U	0.3 U	0.3 U	0.3 U	0.3 U	1.3 J
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
2-Butanone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
Acetone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
Benzene	1	0.022 J	0.046 J	0.096 J	0.034 J	0.011 J	0.023 J	0.026 J	5 U
Bromodichloromethane	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Chlorobenzene	50	0.5 U	0.5 U	0.13 J	0.11 J	0.5 U	0.5 U	0.5 U	0.31 J
Chloroform	70	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
cis-1,2-Dichloroethene	70	3.2 J+	4.1	2	1.1	0.5 U	0.5 U	0.5 U	170
Methyl tert-butyl ether	70	0.17 J	0.25 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.7 J
Methylene chloride	3	0.5 U	0.5 U	0.13 J	0.5 U	0.5 U	0.14 J	0.5 U	5 U
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Tetrachloroethene	1	5.1	2.5	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J	0.66	0.63	5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J
Trichloroethene	1	46	47	12	9	0.3 U	0.3 U	0.3 U	5.5
Trichlorofluoromethane	N/A	0.34 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U
Vinyl chloride	1	0.059 J	0.033 J	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW20-2	CDE-OU3-BLSR2-MW20-3	CDE-OU3-BLSR2-MW20-4	CDE-OU3-BLSR2-MW20-5	CDE-OU3-BLSR2-MW20-6	CDE-OU3-BLSR2-MW20-7	CDE-OU3-BLSR2-MW20-8	CDE-OU3-BLSR2-MW21-1
LOCATION (WELL ID)		MW-20-2	MW-20-3	MW-20-4	MW-20-5	MW-20-6	MW-20-7	MW-20-8	MW-21-1
DEPTH (FT)		85-95	125-135	175-185	205-215	250-260	297-307	355-365	50-60
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/28/2017
1,1,1-Trichloroethane	N/A	5 U	5 UJ	5 UJ	5 UJ	10 UJ	10 UJ	5 U	1 U
1,1,2-Trichloroethane	3	0.2 J	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,1-Dichloroethane	N/A	0.22 J	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,1-Dichloroethene	1	2.3 J	2.2 J	1.9 J	1.9 J	2.2 J	3.4 J	1.1 J	0.55 J
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
2-Butanone	N/A	10 U	17	10 U	10 U	15 J	20 U	10 U	10 U
Acetone	N/A	10 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U
Benzene	1	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.042 J
Bromodichloromethane	1	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.6 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
Carbon tetrachloride	N/A	5 U	5 UJ	5 UJ	5 UJ	10 UJ	10 UJ	5 U	1 U
Chlorobenzene	50	0.27 J	5 U	5 U	5 U	10 U	10 U	5 U	1 U
Chloroform	70	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
cis-1,2-Dichloroethene	70	180	130	200	200	130	260	39	41
Methyl tert-butyl ether	70	1.2 J	5 U	5 U	0.59 J+	10 U	10 U	5 U	1 U
Methylene chloride	3	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
o-Xylene	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
Tetrachloroethene	1	1.9 J	1.8 J	1 J	1 J	1.6 J	3.2 J	0.77 J	0.73
Toluene	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
trans-1,2-Dichloroethene	100	0.6 J	0.53 J	0.52 J	0.59 J	10 U	1.5 J	0.35 J	0.33 J
Trichloroethene	1	310	450	350	460	740	940	260	290
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	10 U	10 U	5 U	1 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	10 U	10 U	5 U	0.45 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW21-2	CDE-OU3-BLSR2-MW21-3	CDE-OU3-BLSR2-MW21-4	CDE-OU3-BLSR2-MW21-5	CDE-OU3-BLSR2-DUPV-06	CDE-OU3-BLSR2-MW21-6	CDE-OU3-BLSR2-MW21-7	CDE-OU3-BLSR2-MW21-8
LOCATION (WELL ID)		MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-5	MW-21-6	MW-21-7	MW-21-8
DEPTH (FT)		87-97	150-160	205-215	260-270	260-270	428-438	485-495	505-515
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017
1,1,1-Trichloroethane	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	1	0.52 J	0.53 J	0.57 J	0.52 J	0.54 J	0.02 J	0.019 J	0.028 J
1,2,3-Trichlorobenzene	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U
Acetone	N/A	10 U	10 U	10 U	10 U	10 U	5 U	5 U	5 U
Benzene	1	0.037 J	0.039 J	0.04 J	0.035 J	0.039 J	0.011 J	0.016 J	0.014 J
Bromodichloromethane	1	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.3 U	0.3 U	0.3 U
Carbon disulfide	N/A	1 U	1 U	0.38 J	1 U	1 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	0.5 UJ	0.5 U	0.5 U
Chloroform	70	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	53	50	53	63	47	0.7	0.29 J	0.61
Methyl tert-butyl ether	70	1 U	1 U	1 U	1 U	0.28 J	0.5 U	0.5 U	0.5 U
Methylene chloride	3	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
o-Xylene	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.74	0.78	0.82	0.75	1	0.3 U	0.3 U	0.01 J
Toluene	N/A	1 U	1 U	1 U	1 U	1 U	0.5 UJ	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.29 J	0.32 J	0.3 J	0.29 J	0.62 J	0.5 U	0.5 U	0.5 U
Trichloroethene	1	340	310	340	400	300	10 J	4	8.6
Trichlorofluoromethane	N/A	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.6 U	0.6 U	0.6 U	0.6 U	0.5 J	0.3 U	0.3 U	0.3 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW22-1	CDE-OU3-BLSR2-MW22-2	CDE-OU3-BLSR2-MW22-3	CDE-OU3-BLSR2-MW22-4	CDE-OU3-BLSR2-MW23-1	CDE-OU3-BLSR2-MW23-2	CDE-OU3-BLSR2-MW23-3	CDE-OU3-BLSR2-MW23-4
LOCATION (WELL ID)		MW-22-1	MW-22-2	MW-22-3	MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4
DEPTH (FT)		45-55	125-135	210-220	305-315	60-70	120-130	170-180	226-236
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017
1,1,1-Trichloroethane	N/A	5 U	5 U	0.34 J	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	5 U	5 U	1 J	1.5 J	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	1	5 U	5 U	5 U	7.7	0.021 J	0.25 J	0.35	0.26 J
1,2,3-Trichlorobenzene	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U
Acetone	N/A	10 U	10 U	10 U	10 U	5 U	5 U	5 U	5 U
Benzene	1	5 U	5 U	5 U	5 U	0.013 J	0.018 J	0.019 J	0.017 J
Bromodichloromethane	1	5 U	5 U	5 U	5 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon disulfide	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	5 U	5 U	0.36 J	5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	1.8 J	5.7	98	210	0.55	2.4	14	6.6
Methyl tert-butyl ether	70	5 U	27	5 U	0.4 J	0.12 J	0.17 J	0.27 J	0.15 J
Methylene chloride	3	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.13 J	0.18 J
o-Xylene	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	5 U	5 U	5 U	5 U	0.3 U	0.3 U	0.88	0.73
Toluene	N/A	5 U	5 U	5 U	0.25 J	0.5 U	0.5 U	0.11 J	0.12 J
trans-1,2-Dichloroethene	100	5 U	5 U	0.22 J	0.46 J	0.5 U	0.5 U	0.14 J	0.5 U
Trichloroethene	1	5 U	1.3 J	24	6.8	1.3	10	70	16
Trichlorofluoromethane	N/A	5 U	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	5 U	5 U	5 U	5 U	0.3 U	0.3 U	0.3 U	0.3 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW23-5	CDE-OU3-BLSR2-MW23-6	CDE-OU3-BLSR2-MW23-7	CDE-OU3-BLSR2-MW23-8	CDE-OU3-BLSR2-DUP-07	CDE-OU3-BLSR2-MW23-9	CDE-OU3-BLSR2-MW24-1	CDE-OU3-BLSR2-MW24-2
LOCATION (WELL ID)		MW-23-5	MW-23-6	MW-23-7	MW-23-8	MW-23-8	MW-23-9	MW-24-1	MW-24-2
DEPTH (FT)		258-268	316-326	350-360	406-416	406-416	444-454	85-95	135-145
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/31/2017	7/31/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.5 U	0.15 J	0.16 J	0.5 U	0.5 U	0.5 U	0.5 U	0.33 J
1,1-Dichloroethene	1	0.57	0.69	1.3	0.81	0.77	0.38	0.3 U	5.2
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	0.96 J	5 U
Acetone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	0.02 J	0.066 J	0.02 J	0.041 J	0.045 J	0.041 J	0.062 J	0.084 J
Bromodichloromethane	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.51	0.54	0.7	0.49 J	0.46 J	0.5 U	0.27 J	0.5 U
cis-1,2-Dichloroethene	70	7.1	11	9.4	11	10	25	0.5 U	0.85
Methyl tert-butyl ether	70	0.12 J	0.12 J	0.11 J	0.5 U	0.5 U	0.14 J	0.5 U	0.14 J
Methylene chloride	3	0.15 J	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	0.12 J	0.5 U
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.62	0.16 J	0.27 J	0.26 J	0.24 J	0.29 J	0.56	5.6
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.14 J	2 JN	0.12 J	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.18 J	0.5 U	0.5 U
Trichloroethene	1	32	20	39 J	29	27	180	0.3 U	12
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.31 J
Vinyl chloride	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.025 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW24-3	CDE-OU3-BLSR2-MW24-4	CDE-OU3-BLSR2-MW24-5	CDE-OU3-BLSR2-MW24-6	CDE-OU3-BLSR2-DUP-08	CDE-OU3-BLSR2-MW25-1-RS	CDE-OU3-BLSR2-MW25-2-RS
LOCATION (WELL ID)		MW-24-3	MW-24-4	MW-24-5	MW-24-6	MW-24-6	MW-25-1	MW-25-2
DEPTH (FT)		240-250	332-342	370-380	455-465	455-465	85-95	175-185
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	8/10/2017	8/10/2017
1,1,1-Trichloroethane	N/A	0.69	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.27 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.41 J
1,1-Dichloroethene	1	6.2	1.3	0.12 J	0.3 U	0.3 U	0.33	1
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	N/A	5 U	5 U	5 U	5 U	5 U	1.3 J	0.78 J
Benzene	1	0.057 J	0.03 J	0.023 J	0.039 J	0.037 J	0.012 J	0.02 J
Bromodichloromethane	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.034 J	0.025 J
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.81	1.3
cis-1,2-Dichloroethene	70	0.63	0.36 J	0.23 J	0.23 J	0.19 J	1.6	5.6
Methyl tert-butyl ether	70	0.26 J	0.16 J	0.14 J	0.11 J	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.5 U	0.5 U	0.5 U	0.12 J	0.5 U	0.5 U	0.5 U
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.3 U	0.3 U	0.041 J	0.3 U	0.3 U	0.018 J	0.021 J
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	4.6	1.8	1.4	3.9	2.8	1.3	2.8
Trichlorofluoromethane	N/A	0.47 J	0.37 J	0.29 J	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.034 J	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW25-3-RS	CDE-OU3-BLSR2-DUPV-08-RS	CDE-OU3-BLSR2-MW25-4-RS	CDE-OU3-BLSR2-MW25-5-RS	CDE-OU3-BLSR2-MW25-6-RS
LOCATION (WELL ID)		MW-25-3	MW-25-3	MW-25-4	MW-25-5	MW-25-6
DEPTH (FT)		200-210	200-210	275-285	345-355	435-445
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/10/2017	8/10/2017	8/10/2017	8/10/2017	8/10/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.25 J	0.23 J	0.5 U	0.25 J	1.1
1,1-Dichloroethene	1	0.74	0.59	0.8	0.52	2.1
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	5 U	5 U	5 U	5 U	5 U
Acetone	N/A	5 U	5 U	1.9 J	1.1 J	1.3 J
Benzene	1	0.013 J	0.013 J	0.03 J	0.044 J	0.02 J
Bromodichloromethane	1	0.05 J	0.052 J	0.021 J	0.3 U	0.3 U
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.33 J
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.91	0.89	0.87	1.4	3.2
cis-1,2-Dichloroethene	70	4	3.9	5.5	1.4	15
Methyl tert-butyl ether	70	0.5 U	0.5 U	0.5 U	0.5 U	0.14 J
Methylene chloride	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.018 J	0.019 J	0.13 J	0.079 J	0.055 J
Toluene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	2.1	2	18 J	2	7.9
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.3 U	0.3 U	0.3 U	0.3 U	0.024 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW26-1-RS	CDE-OU3-BLSR2-MW26-2-RS	CDE-OU3-BLSR2-MW26-3-RS	CDE-OU3-BLSR2-MW26-4-RS	CDE-OU3-BLSR2-MW26-5-RS	CDE-OU3-BLSR2-MW26-6-RS	CDE-OU3-BLSR2-MW27-1
LOCATION (WELL ID)		MW-26-1	MW-26-2	MW-26-3	MW-26-4	MW-26-5	MW-26-6	MW-27-1
DEPTH (FT)		95-105	175-185	255-265	305-320	385-395	455-465	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/10/2017	8/10/2017	8/10/2017	8/10/2017	8/10/2017	8/10/2017	7/31/2017
1,1,1-Trichloroethane	N/A	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.67	0.39 J	0.26 J	0.31 J	0.5 U	0.5 U	0.39 J
1,1-Dichloroethene	1	1.5	1.3	1.5	1.5	0.67	0.44 J	1.4
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	0.5 U	0.5 U	0.19 J	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	5 U	1.1 J	5 U	5 U	0.91 J	5 U	5 U
Acetone	N/A	1.1 J	1.1 J	1.5 J	3 J	1.1 J	1.5 J	5 U
Benzene	1	0.019 J	0.09 J	0.038 J	0.044 J	0.051 J	0.019 J	0.084 J
Bromodichloromethane	1	0.017 J	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.01 J
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	0.21 J	0.14 J	0.5 U	0.5 U	0.5 U	0.5 U	0.19 J
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	1.8	1.6	0.48 J	0.47 J	0.22 J	0.31 J	2.4
cis-1,2-Dichloroethene	70	10	10	3.6	5.3	0.3 J	0.27 J	13
Methyl tert-butyl ether	70	0.5 U	0.5 U	0.5 U	0.11 J	0.5 U	0.5 U	0.5 U
Methylene chloride	3	0.5 U	0.16 J	0.12 J	0.5 U	0.5 U	0.14 J	0.12 J
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.062 J	0.051 J	0.03 J	0.027 J	0.3 U	0.3 U	0.3 U
Toluene	N/A	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.25 J
trans-1,2-Dichloroethene	100	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	1	6.5	6.1	4.9	5.9	1.4	0.66	6.5
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.025 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW27-2	CDE-OU3-BLSR2-MW27-3	CDE-OU3-BLSR2-MW27-4	CDE-OU3-BLSR2-MW27-5
LOCATION (WELL ID)		MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017	7/31/2017
1,1,1-Trichloroethane	N/A	0.5 U	0.26 J	0.2 J	0.5 U
1,1,2-Trichloroethane	3	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	N/A	0.5 U	0.92	0.46 J	0.5 U
1,1-Dichloroethene	1	0.63	5.9	2.6	0.34 U
1,2,3-Trichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	9	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	2	0.5 U	0.63	0.32 J	0.5 U
1,3-Dichlorobenzene	N/A	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	75	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	N/A	5 U	5 U	5 U	5 U
Acetone	N/A	5 U	5 U	5 U	5 U
Benzene	1	0.063 J	0.15 J	0.066 J	0.055 J
Bromodichloromethane	1	0.3 U	0.3 U	0.3 U	0.3 U
Carbon disulfide	N/A	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	N/A	0.5 U	0.15 J	0.2 J	0.5 U
Chlorobenzene	50	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	0.86	1.3	1.1	0.5 U
cis-1,2-Dichloroethene	70	6.4	70 J	6.8	0.86
Methyl tert-butyl ether	70	0.19 J	0.25 J	0.5 U	0.5 U
Methylene chloride	3	0.5 U	0.17 J	0.5 U	0.5 U
o-Xylene	N/A	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	1	0.3 U	0.3 U	0.3 U	0.3 U
Toluene	N/A	0.5 U	0.15 J	0.5 U	0.12 J
trans-1,2-Dichloroethene	100	0.5 U	0.16 J	0.5 U	0.5 U
Trichloroethene	1	4.4	46 J	9.3	0.37 U
Trichlorofluoromethane	N/A	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	1	0.3 U	0.056 J	0.3 U	0.3 U

Notes:

N/A = Not Applicable; no preliminary remediation goal identified.

The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).

Shading indicates exceedance of Potential Clean up Standard.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW02A-SH	CDE-OU3-BLSR2-MW03-SH	CDE-OU3-BLSR2-MW04-SH	CDE-OU3-BLSR2-MW05-SH	CDE-OU3-BLSR2-MW06-SH	CDE-OU3-BLSR2-MW07-SH	CDE-OU3-BLSR2-MW08-SH	CDE-OU3-BLSR2-MW09-SH	CDE-OU3-BLSR2-MW10-SH
LOCATION (WELL ID)		**MW-01A**	**MW-02A**	**MW-03**	**MW-04**	**MW-05**	**MW-06**	**MW-07**	**MW-08**	**MW-09**	**MW-10**
DEPTH (FT)		**24-49**	**24-49**	**17-32**	**29-49**	**25-45.5**	**29-44**	**43-58**	**42-57.5**	**29-54**	**37-52**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/11/2017**	**7/11/2017**	**7/12/2017**	**7/12/2017**	**7/10/2017**	**7/12/2017**	**7/11/2017**	**7/11/2017**	**7/11/2017**	**7/10/2017**
1,1'-Biphenyl	N/A	5.3 U	5 U	5 U	5 U	5 U	5.1 U	5 U	5.1 U	5 U	5 U
1,4-Dioxane	N/A	2.1 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Acenaphthene	N/A	0.054 U	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Acenaphthylene	N/A	0.054 U	0.05 U	0.05 U	0.018 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Anthracene	N/A	0.054 U	0.15	0.05 U	0.027 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Benzo(a)anthracene	0.1	0.032 U	0.03 U	0.03 U	0.03 U	0.03 U	0.022 J	0.03 U	0.03 U	0.03 U	0.031 U
Benzo(a)pyrene	0.1	0.032 U	0.03 U	0.03 U	0.03 U	0.03 U	0.025 J	0.03 U	0.03 U	0.03 U	0.031 U
Benzo(b)fluoranthene	0.2	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 J	0.05 U	0.05 U	0.05 U	0.052 U
Benzo(g,h,i)perylene	N/A	0.054 U	0.05 U	0.05 U	0.013 J	0.05 U	0.041 J	0.05 U	0.05 U	0.05 U	0.052 U
Benzo(k)fluoranthene	0.5	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Bis(2-ethylhexyl)phthalate	3	1.1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.023 J	0.05 U	0.05 U	0.05 U	0.052 U
Dibenzo(a,h)anthracene	0.3	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Di-n-butylphthalate	N/A	5.3 U	5 U	5 U	5 U	5 U	5.1 U	5 U	5.1 U	5 U	5 U
Fluoranthene	N/A	0.054 U	0.05 U	0.013 J	0.05 U	0.05 U	0.061	0.05 U	0.05 U	0.05 U	0.052 U
Fluorene	N/A	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U
Indeno(1,2,3-cd)pyrene	0.2	0.054 U	0.05 U	0.05 U	0.05 U	0.05 U	0.038 J	0.05 U	0.05 U	0.05 U	0.052 U
Naphthalene	N/A	0.054 U	0.05 U	0.014 J	0.05 U	0.05 U	0.05 U	0.05 U	0.021 J	0.05 U	0.052 U
Pentachlorophenol	N/A	0.11 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.054 U	0.05 U	0.023 J	0.017 J	0.05 U	0.076	0.05 U	0.026 J	0.05 U	0.052 U
Pyrene	N/A	0.054 U	0.33	0.05 U	0.05 U	0.05 U	0.086	0.05 U	0.05 U	0.05 U	0.052 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT1-1	CDE-OU3-BLSR2-ERT1-2	CDE-OU3-BLSR2-ERT1-3	CDE-OU3-BLSR2-ERT1-4	CDE-OU3-BLSR2-ERT1-5	CDE-OU3-BLSR2-ERT1-6	CDE-OU3-BLSR2-ERT1-7	CDE-OU3-BLSR2-DUP-03
LOCATION (WELL ID)	Preliminary	MW-11	MW-11	MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-4	ERT1-5	ERT1-6	ERT1-7	ERT1-7
DEPTH (FT)	Remediatio	34-59	34-59	35-60	24-29	33-43	46-56	59-64	67-77	100-105	112-117	112-117
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/11/2017	7/11/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017
1,1'-Biphenyl	N/A	5 U	5.1 U	1.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Acenaphthene	N/A	0.052 U	0.053 U	0.01 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Anthracene	N/A	0.052 U	0.053 U	0.044 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.031 U	0.032 U	0.01 J	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.031 U	0.032 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.052 U	0.053 U	0.017 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1.1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.052 U	0.053 U	0.087	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Fluorene	N/A	0.052 U	0.053 U	0.017 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.052 U	0.053 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Naphthalene	N/A	2.2	2.1	0.01 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.056 J	0.043 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.068 J	0.1 U
Phenanthrene	N/A	0.052 U	0.053 U	0.15	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U
Pyrene	N/A	0.052 U	0.053 U	0.083	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT1-8	CDE-OU3-BLSR2-ERT2-1	CDE-OU3-BLSR2-ERT2-2	CDE-OU3-BLSR2-ERT2-4	CDE-OU3-BLSR2-ERT2-5	CDE-OU3-BLSR2-ERT2-6	CDE-OU3-BLSR2-ERT2-7	CDE-OU3-BLSR2-ERT3-1	CDE-OU3-BLSR2-ERT3-2	CDE-OU3-BLSR2-ERT3-3	CDE-OU3-BLSR2-ERT3-5
LOCATION (WELL ID)		ERT1-8	ERT2-1	ERT2-2	ERT2-4	ERT2-5	ERT2-6	ERT2-7	ERT3-1	ERT3-2	ERT3-3	ERT3-5
DEPTH (FT)		135-140	25-35	40-50	70-75	97-107	113-123	127-137	27-37	55-65	90-105	124-134
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
1,1'-Biphenyl	N/A	5 U	5.2 U	5.2 U	5 U	5 U	5 U	5 U	R	R	R	R
1,4-Dioxane	N/A	2 U	2.1 U	2.1 U	2 U	2 U	2 U	2 U	R	R	R	R
2-Methylnaphthalene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.031 U	0.03 U	0.03 U	0.03 U	0.031 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.031 U	0.03 U	0.03 U	0.03 U	0.031 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	0.19 J	1 U	R	R	R	R
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	R	R	R	R
Chrysene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5.2 U	5.2 U	5 U	5 U	5 U	5 U	R	R	R	R
Fluoranthene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-ERT3-6	CDE-OU3-BLSR2-ERT4-1	CDE-OU3-BLSR2-ERT4-2	CDE-OU3-BLSR2-ERT4-3	CDE-OU3-BLSR2-ERT4-4	CDE-OU3-BLSR2-ERT4-5	CDE-OU3-BLSR2-ERT4-6	CDE-OU3-BLSR2-ERT4-7	CDE-OU3-BLSR2-ERT5-1	CDE-OU3-BLSR2-ERT5-2	CDE-OU3-BLSR2-ERT5-3
LOCATION (WELL ID)	Preliminary	ERT3-6	ERT4-1	ERT4-2	ERT4-3	ERT4-4	ERT4-5	ERT4-6	ERT4-7	ERT5-1	ERT5-2	ERT5-3
DEPTH (FT)	Remediatio	138-148	27-37	46-56	61-66	83-88	91-106	111-116	128-138	24-34	37-47	50-60
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	7/20/2017	7/20/2017	7/19/2017	7/19/2017	7/20/2017	7/20/2017	7/20/2017	7/21/2017	7/21/2017	7/21/2017
1,1'-Biphenyl	N/A	R	5 U	5 U	5.1 U	5 U	5 U	5 U	5.4 U	5.2 U	5 U	5 U
1,4-Dioxane	N/A	R	2 U	2 U	2 U	1.1 J	1.1 J	2 U	2.2 U	2.1 U	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.032 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.032 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	R	1 U	1 U	1.1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	R	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	R	5 U	5 U	5.1 U	5 U	5 U	5 U	5.4 U	5.2 U	5 U	3.4 J
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 U	0.1 U	0.11 UJ	0.1 UJ	0.1 U	0.022 J	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.026 J+	0.05 U	0.05 U	0.053 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-ERT5-4	CDE-OU3-BLSR2-ERT5-5	CDE-OU3-BLSR2-ERT5-6	CDE-OU3-BLSR2-DUP-05	CDE-OU3-BLSR2-ERT6-1	CDE-OU3-BLSR2-DUP-02	CDE-OU3-BLSR2-ERT6-2	CDE-OU3-BLSR2-ERT6-3	CDE-OU3-BLSR2-ERT6-4	CDE-OU3-BLSR2-ERT6-5	CDE-OU3-BLSR2-ERT7-1
LOCATION (WELL ID)	Preliminary	ERT5-4	ERT5-5	ERT5-6	ERT5-6	ERT6-1	ERT6-1	ERT6-2	ERT6-3	ERT6-4	ERT6-5	ERT7-1
DEPTH (FT)	Remediatio	77-87	93-98	120-130	120-130	26-36	26-36	75-85	93-103	107-117	128-138	25-35
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/26/2017
1,1'-Biphenyl	N/A	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U	5 U	R
1,4-Dioxane	N/A	2 U	#N/A	2 U	2 U	2 U	2 U	2 U	2.2 U	2 U	2 U	R
2-Methylnaphthalene	N/A	0.05 U	0.035 J	0.023 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.017 J	0.014 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.019 J	0.015 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.029 J	0.018 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.033 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.033 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	#N/A	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	R
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	#N/A	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U	5 U	R
Fluoranthene	N/A	0.05 U	0.012 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.018 J	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.035 J	0.019 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 R	0.1 R	0.1 R	0.1 U	0.1 U	0.1 U	0.11 U	0.1 U	0.1 U	0.1 UJ
Phenanthrene	N/A	0.05 U	0.022 J	0.012 J	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.055 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-ERT7-2	CDE-OU3-BLSR2-ERT7-3	CDE-OU3-BLSR2-ERT7-4	CDE-OU3-BLSR2-ERT7-5	CDE-OU3-BLSR2-ERT8-1	CDE-OU3-BLSR2-ERT8-2	CDE-OU3-BLSR2-ERT8-3	CDE-OU3-BLSR2-DUP-09	CDE-OU3-BLSR2-ERT8-5	CDE-OU3-BLSR2-ERT8-6	CDE-OU3-BLSR2-ERT8-7
LOCATION (WELL ID)	Preliminary	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3	ERT8-3	ERT8-5	ERT8-6	ERT8-7
DEPTH (FT)	Remediatio	45-55	65-75	100-110	130-140	17-27	31-41	44-54	44-54	87-97	107-112	135-145
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	7/26/2017	7/26/2017	7/26/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
1,1'-Biphenyl	N/A	R	R	R	R	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	R	R	R	R	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	R	R	R	R	10 U	10 U	10 U	10 U	10 U	2 J	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	R	R	R	R	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW13-1	CDE-OU3-BLSR2-MW13-2	CDE-OU3-BLSR2-MW13-3	CDE-OU3-BLSR2-MW13-4	CDE-OU3-BLSR2-MW13-5	CDE-OU3-BLSR2-MW13-6	CDE-OU3-BLSR2-MW13-7	CDE-OU3-BLSR2-MW14S-1	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3
LOCATION (WELL ID)	Preliminary	MW-13-1	MW-13-2	MW-13-3	MW-13-4	MW-13-5	MW-13-6	MW-13-7	MW-14S-1	MW-14S-2	MW-14S-3
DEPTH (FT)	Remediatio	18-28	35-45	63-73	95-105	115-125	150-160	230-240	30-35	41-46	55-60
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/25/2017	7/25/2017	7/25/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5.1 U	1.5 J	1.8 J	1 J
1,4-Dioxane	N/A	1.1 J	1.4 J-	3.4	4.5	5.5	5.2	2.2	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.08	0.088	0.06
Acenaphthene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.032 J	0.013 J	0.032 J
Acenaphthylene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.015 J	0.05 U	0.025 J
Anthracene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.076	0.061	0.06
Benzo(a)anthracene	0.1	0.031 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.031 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	0.3 J	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5.1 U	1.2 J	5 U	5 U
Fluoranthene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.019 J	0.05 U	0.018 J
Fluorene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.025 J	0.05 U	0.03 J
Indeno(1,2,3-cd)pyrene	0.2	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	1.5	2.5	0.95
Pentachlorophenol	N/A	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.12 J	0.058 J	0.048 J
Phenanthrene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.03 J	0.05 U	0.028 J
Pyrene	N/A	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW14D-1	CDE-OU3-BLSR2-MW14D-2	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3	CDE-OU3-BLSR2-MW15S-1	CDE-OU3-BLSR2-MW15S-2	CDE-OU3-BLSR2-MW15D-1	CDE-OU3-BLSR2-MW15D-2	CDE-OU3-BLSR2-MW16-1	CDE-OU3-BLSR2-MW16-2
LOCATION (WELL ID)	Preliminary	MW-14D-1	MW-14D-2	MW-14D-2	MW-14D-3	MW-15S-1	MW-15S-2	MW-15D-1	MW-15D-2	MW-16-1	MW-16-2
DEPTH (FT)	Remediatio	80-85	123-133	123-133	199-209	30-40	70-80	125-135	185-195	20-30	40-50
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/19/2017	7/19/2017
1,1'-Biphenyl	N/A	5 U	1 J	0.98 J	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U
1,4-Dioxane	N/A	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2.1 UJ
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.016 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.14	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.065	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.032	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.025 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.051	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	0.15 J	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	1.2 J	2.9 J	2.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.053	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.054	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5.2 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.039 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.012 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 R	0.058 J	0.1 R	0.1 R	0.038 J	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.044 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-DUP-04	CDE-OU3-BLSR2-MW16-3	CDE-OU3-BLSR2-MW16-4	CDE-OU3-BLSR2-MW16-5	CDE-OU3-BLSR2-MW16-6	CDE-OU3-BLSR2-MW16-7	CDE-OU3-BLSR2-FPW-1	CDE-OU3-BLSR2-FPW-2	CDE-OU3-BLSR2-FPW-3	CDE-OU3-BLSR2-FPW-4	CDE-OU3-BLSR2-FPW-5
LOCATION (WELL ID)	Preliminary	MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6	MW-16-7	FPW-1	FPW-2	FPW-3	FPW-4	FPW-5
DEPTH (FT)	Remediatio	40-50	85-95	108-118	135-145	170-180	195-205	31-41	46-51	100-110	125-135	180-190
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017
1,1'-Biphenyl	N/A	5.2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2.1 U	2 U	2 U	2 U	2 U	1.6 J	1.7 J	12	2.1 J+	2.5 J+	2.4
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.081	0.046 J	0.021 J	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	0.93 J	10 U	1.4 J	1.8 J	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5.2 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.037 J	0.1 UJ	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-FPW-6	CDE-OU3-BLSR2-FPW-7	CDE-OU3-BLSR2-FPW-8	CDE-OU3-BLSR2-FPW-9	CDE-OU3-BLSR2-MW17-1	CDE-OU3-BLSR2-MW17-2	CDE-OU3-BLSR2-MW17-3	CDE-OU3-BLSR2-MW18-1	CDE-OU3-BLSR2-MW18-2	CDE-OU3-BLSR2-MW19-1	CDE-OU3-BLSR2-MW19-2
LOCATION (WELL ID)	**Preliminary**	**FPW-6**	**FPW-7**	**FPW-8**	**FPW-9**	**MW-17-1**	**MW-17-2**	**MW-17-3**	**MW-18-1**	**MW-18-2**	**MW-19-1**	**MW-19-2**
DEPTH (FT)	**Remediatio**	**200-205**	**235-245**	**268-278**	**300-310**	**170-180**	**205-215**	**235-245**	**160-170**	**210-220**	**65-75**	**132-142**
MATRIX	**n Goal**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS	**(ug/L)**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/14/2017**	**7/14/2017**	**7/14/2017**	**7/14/2017**	**7/18/2017**	**7/18/2017**	**7/18/2017**	**7/13/2017**	**7/13/2017**	**8/1/2017**	**8/1/2017**
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	1.3 J	1.1 J	1.4 J	2 U	2 U	2 U	2 U	2 U	2 U	2.2	1.4 J
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.052	0.12	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.048	0.086	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.053	0.087	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.057	0.09	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.057	0.091	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	0.16 J	0.47 J	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	4.9 J	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.077	0.13	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06	0.097	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.069	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.054	0.089	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.12 J	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW19-3	CDE-OU3-BLSR2-MW19-4	CDE-OU3-BLSR2-MW19-5	CDE-OU3-BLSR2-MW19-6	CDE-OU3-BLSR2-MW19-7	CDE-OU3-BLSR2-MW20-1	CDE-OU3-BLSR2-MW20-2	CDE-OU3-BLSR2-MW20-3	CDE-OU3-BLSR2-MW20-4	CDE-OU3-BLSR2-MW20-5	CDE-OU3-BLSR2-MW20-6
LOCATION (WELL ID)	Preliminary	MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7	MW-20-1	MW-20-2	MW-20-3	MW-20-4	MW-20-5	MW-20-6
DEPTH (FT)	Remediatio	200-210	257-267	367-377	480-490	545-555	25-35	85-95	125-135	175-185	205-215	250-260
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	1.7 J-	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.012 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.026 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.031 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.031 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.022 J	0.014 J	0.015 J	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 R	0.1 R	0.1 R	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW20-7	CDE-OU3-BLSR2-MW20-8	CDE-OU3-BLSR2-MW21-1	CDE-OU3-BLSR2-MW21-2	CDE-OU3-BLSR2-MW21-3	CDE-OU3-BLSR2-MW21-4	CDE-OU3-BLSR2-MW21-5	CDE-OU3-BLSR2-MW21-6	CDE-OU3-BLSR2-MW21-7	CDE-OU3-BLSR2-MW21-8	CDE-OU3-BLSR2-MW22-1
LOCATION (WELL ID)	Preliminary	MW-20-7	MW-20-8	MW-21-1	MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8	MW-22-1
DEPTH (FT)	Remediatio	297-307	355-365	50-60	87-97	150-160	205-215	260-270	428-438	485-495	505-515	45-55
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/17/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW22-2	CDE-OU3-BLSR2-MW22-3	CDE-OU3-BLSR2-MW22-4	CDE-OU3-BLSR2-MW23-1	CDE-OU3-BLSR2-MW23-2	CDE-OU3-BLSR2-MW23-3	CDE-OU3-BLSR2-MW23-4	CDE-OU3-BLSR2-MW23-5	CDE-OU3-BLSR2-MW23-6	CDE-OU3-BLSR2-MW23-7	CDE-OU3-BLSR2-MW23-8
LOCATION (WELL ID)	Preliminary	MW-22-2	MW-22-3	MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4	MW-23-5	MW-23-6	MW-23-7	MW-23-8
DEPTH (FT)	Remediatio	125-135	210-220	305-315	60-70	120-130	170-180	226-236	258-268	316-326	350-360	406-416
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/17/2017	7/17/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	1.6 J	1.7 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.029 J	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	3.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 J	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.031 J	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-DUP-07	CDE-OU3-BLSR2-MW23-9	CDE-OU3-BLSR2-MW24-1	CDE-OU3-BLSR2-MW24-2	CDE-OU3-BLSR2-MW24-3	CDE-OU3-BLSR2-MW24-4	CDE-OU3-BLSR2-MW24-5	CDE-OU3-BLSR2-MW24-6	CDE-OU3-BLSR2-DUP-08	CDE-OU3-BLSR2-MW25-1	CDE-OU3-BLSR2-MW25-2
LOCATION (WELL ID)		MW-23-8	MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4	MW-24-5	MW-24-6	MW-24-6	MW-25-1	MW-25-2
DEPTH (FT)		406-416	444-454	85-95	135-145	240-250	332-342	370-380	455-465	455-465	85-95	175-185
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/27/2017	7/27/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	8/3/2017	8/3/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 U	2 U	1.3 J	1.3 J	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 R	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 R	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	5 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	5 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	1.2 J	1.1 J	10 U	10 U	10 U	10 U	10 U
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	3.7 J	5 U	5 U	5.1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	10 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 R	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	5 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME		CDE-OU3-BLSR2-MW25-3	CDE-OU3-BLSR2-MW25-4-RS	CDE-OU3-BLSR2-MW25-5-RS	CDE-OU3-BLSR2-MW25-6-RS	CDE-OU3-BLSR2-MW26-1-RS	CDE-OU3-BLSR2-MW26-2-RS	CDE-OU3-BLSR2-MW26-3-RS	CDE-OU3-BLSR2-MW26-4	CDE-OU3-BLSR2-MW26-5	CDE-OU3-BLSR2-MW26-6
LOCATION (WELL ID)	Preliminary	MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1	MW-26-2	MW-26-3	MW-26-4	MW-26-5	MW-26-6
DEPTH (FT)	Remediatio	200-210	275-285	345-355	435-445	95-105	175-185	255-265	305-320	385-395	455-465
MATRIX	n Goal	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS	(ug/L)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/3/2017	8/10/2017	8/10/2017	8/10/2017	8/10/2017	8/10/2017	8/10/2017	8/2/2017	8/2/2017	8/2/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	10 U	10 U	10 U	10 U	10 U	1.3 J	10 U	10 U	10 U	1.7 J
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
SEMI-VOLATILE ORGANIC COMPOUNDS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW27-1	CDE-OU3-BLSR2-MW27-2	CDE-OU3-BLSR2-MW27-3	CDE-OU3-BLSR2-MW27-4	CDE-OU3-BLSR2-MW27-5
LOCATION (WELL ID)		MW-27-1	MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		85-95	180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
1,1'-Biphenyl	N/A	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	N/A	2 U	2 U	2.9	0.93 J	2 U
2-Methylnaphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Anthracene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(a)anthracene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(a)pyrene	0.1	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Benzo(b)fluoranthene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(g,h,i)perylene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	0.5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Bis(2-ethylhexyl)phthalate	3	1 U	1 U	1 U	1 U	1 U
Caprolactam	N/A	0.94 J	1.9 J	10 U	10 U	2.2 J
Chrysene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenzo(a,h)anthracene	0.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Di-n-butylphthalate	N/A	5 U	5 U	5 U	5 U	5 U
Fluoranthene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Fluorene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	0.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Naphthalene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pentachlorophenol	N/A	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U
Phenanthrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyrene	N/A	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW02A-SH	CDE-OU3-BLSR2-MW03-SH	CDE-OU3-BLSR2-MW04-SH	CDE-OU3-BLSR2-MW05-SH	CDE-OU3-BLSR2-MW06-SH	CDE-OU3-BLSR2-MW07-SH
LOCATION (WELL ID)		**MW-01A**	**MW-02A**	**MW-03**	**MW-04**	**MW-05**	**MW-06**	**MW-07**
DEPTH (FT)		**24-49**	**24-49**	**17-32**	**29-49**	**25-45.5**	**29-44**	**43-58**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/11/2017**	**7/11/2017**	**7/12/2017**	**7/12/2017**	**7/10/2017**	**7/12/2017**	**7/11/2017**
Aroclor-1221	N/A	U	UJ	UJ	UJ	U	UJ	U
Aroclor-1232	N/A	U	UJ	UJ	UJ	U	UJ	U
Aroclor-1242	N/A	U	UJ	UJ	UJ	U	42.4	U
Aroclor-1248	0.5	U	UJ	5.4	6.3	1.2	UJ	U
Aroclor-1254	0.5	U	UJ	1.5	UJ	0.99	2.2	0.072

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW08-SH	CDE-OU3-BLSR2-MW09-SH	CDE-OU3-BLSR2-MW10-SH	CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT1-1
LOCATION (WELL ID)		MW-08	MW-09	MW-10	MW-11	MW-11	MW-12	ERT1-1
DEPTH (FT)		42-57.5	29-54	37-52	34-59	34-59	35-60	24-29
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/11/2017	7/10/2017	7/11/2017	7/11/2017	7/11/2017	7/17/2017
Aroclor-1221	N/A	U	U	U	U	U	UJ	U
Aroclor-1232	N/A	U	U	U	U	U	UJ	U
Aroclor-1242	N/A	10.9	0.73	U	28.9	21.9	97	U
Aroclor-1248	0.5	U	U	U	U	U	UJ	U
Aroclor-1254	0.5	U	U	0.046 J	22.2	18.9	10.3	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT1-2	CDE-OU3-BLSR2-ERT1-3	CDE-OU3-BLSR2-ERT1-4	CDE-OU3-BLSR2-ERT1-5	CDE-OU3-BLSR2-ERT1-6	CDE-OU3-BLSR2-ERT1-7	CDE-OU3-BLSR2-DUP-03	CDE-OU3-BLSR2-ERT1-8
LOCATION (WELL ID)		ERT1-2	ERT1-3	ERT1-4	ERT1-5	ERT1-6	ERT1-7	ERT1-7	ERT1-8
DEPTH (FT)		33-43	46-56	59-64	67-77	100-105	112-117	112-117	135-140
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT2-1	CDE-OU3-BLSR2-ERT2-2	CDE-OU3-BLSR2-ERT2-4	CDE-OU3-BLSR2-ERT2-5	CDE-OU3-BLSR2-ERT2-6	CDE-OU3-BLSR2-ERT2-7	CDE-OU3-BLSR2-ERT3-1	CDE-OU3-BLSR2-ERT3-2
LOCATION (WELL ID)		**ERT2-1**	**ERT2-2**	**ERT2-4**	**ERT2-5**	**ERT2-6**	**ERT2-7**	**ERT3-1**	**ERT3-2**
DEPTH (FT)		**25-35**	**40-50**	**70-75**	**97-107**	**113-123**	**127-137**	**27-37**	**55-65**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/18/2017**	**7/18/2017**	**7/18/2017**	**7/18/2017**	**7/18/2017**	**7/18/2017**	**7/26/2017**	**7/26/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT3-3	CDE-OU3-BLSR2-ERT3-5	CDE-OU3-BLSR2-ERT3-6	CDE-OU3-BLSR2-ERT4-1	CDE-OU3-BLSR2-ERT4-2	CDE-OU3-BLSR2-ERT4-3	CDE-OU3-BLSR2-ERT4-4	CDE-OU3-BLSR2-ERT4-5
LOCATION (WELL ID)		**ERT3-3**	**ERT3-5**	**ERT3-6**	**ERT4-1**	**ERT4-2**	**ERT4-3**	**ERT4-4**	**ERT4-5**
DEPTH (FT)		**90-105**	**124-134**	**138-148**	**27-37**	**46-56**	**61-66**	**83-88**	**91-106**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/26/2017**	**7/26/2017**	**7/26/2017**	**7/20/2017**	**7/20/2017**	**7/19/2017**	**7/19/2017**	**7/20/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	0.092	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT4-6	CDE-OU3-BLSR2-ERT4-7	CDE-OU3-BLSR2-ERT5-1	CDE-OU3-BLSR2-ERT5-2	CDE-OU3-BLSR2-ERT5-3	CDE-OU3-BLSR2-ERT5-4	CDE-OU3-BLSR2-ERT5-5	CDE-OU3-BLSR2-ERT5-6
LOCATION (WELL ID)		ERT4-6	ERT4-7	ERT5-1	ERT5-2	ERT5-3	ERT5-4	ERT5-5	ERT5-6
DEPTH (FT)		111-116	128-138	24-34	37-47	50-60	77-87	93-98	120-130
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/20/2017	7/20/2017	7/21/2017	7/21/2017	7/21/2017	7/24/2017	7/24/2017	7/24/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-DUP-05	CDE-OU3-BLSR2-ERT6-1	CDE-OU3-BLSR2-DUP-02	CDE-OU3-BLSR2-ERT6-2	CDE-OU3-BLSR2-ERT6-3	CDE-OU3-BLSR2-ERT6-4	CDE-OU3-BLSR2-ERT6-5	CDE-OU3-BLSR2-ERT7-1
LOCATION (WELL ID)		**ERT5-6**	**ERT6-1**	**ERT6-1**	**ERT6-2**	**ERT6-3**	**ERT6-4**	**ERT6-5**	**ERT7-1**
DEPTH (FT)		**120-130**	**26-36**	**26-36**	**75-85**	**93-103**	**107-117**	**128-138**	**25-35**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/24/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/26/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	0.069

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT7-2	CDE-OU3-BLSR2-ERT7-3	CDE-OU3-BLSR2-ERT7-4	CDE-OU3-BLSR2-ERT7-5	CDE-OU3-BLSR2-ERT8-1	CDE-OU3-BLSR2-ERT8-2	CDE-OU3-BLSR2-ERT8-3	CDE-OU3-BLSR2-DUP-09
LOCATION (WELL ID)		ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3	ERT8-3
DEPTH (FT)		45-55	65-75	100-110	130-140	17-27	31-41	44-54	44-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	7/26/2017	7/26/2017	7/26/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT8-5	CDE-OU3-BLSR2-ERT8-6	CDE-OU3-BLSR2-ERT8-7	CDE-OU3-BLSR2-MW13-1	CDE-OU3-BLSR2-MW13-2	CDE-OU3-BLSR2-MW13-3	CDE-OU3-BLSR2-MW13-4	CDE-OU3-BLSR2-MW13-5
LOCATION (WELL ID)		**ERT8-5**	**ERT8-6**	**ERT8-7**	**MW-13-1**	**MW-13-2**	**MW-13-3**	**MW-13-4**	**MW-13-5**
DEPTH (FT)		**87-97**	**107-112**	**135-145**	**18-28**	**35-45**	**63-73**	**95-105**	**115-125**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**8/2/2017**	**8/2/2017**	**8/2/2017**	**7/21/2017**	**7/21/2017**	**7/21/2017**	**7/21/2017**	**7/21/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW13-6	CDE-OU3-BLSR2-MW13-7	CDE-OU3-BLSR2-MW14S-1	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3	CDE-OU3-BLSR2-MW14D-1	CDE-OU3-BLSR2-MW14D-2
LOCATION (WELL ID)		**MW-13-6**	**MW-13-7**	**MW-14S-1**	**MW-14S-2**	**MW-14S-3**	**MW-14D-1**	**MW-14D-2**
DEPTH (FT)		**150-160**	**230-240**	**30-35**	**41-46**	**55-60**	**80-85**	**123-133**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/21/2017**	**7/21/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**
Aroclor-1221	N/A	U	U	UJ	U	U	U	U
Aroclor-1232	N/A	U	U	UJ	U	U	U	U
Aroclor-1242	N/A	U	U	500	63.2 J	18.4 J	241	268 J
Aroclor-1248	0.5	U	U	UJ	U	U	U	U
Aroclor-1254	0.5	U	U	934	95.8 J-	6.5 J-	127 J-	103 J

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3	CDE-OU3-BLSR2-MW15S-1	CDE-OU3-BLSR2-MW15S-2	CDE-OU3-BLSR2-MW15D-1	CDE-OU3-BLSR2-MW15D-2	CDE-OU3-BLSR2-MW16-1
LOCATION (WELL ID)		**MW-14D-2**	**MW-14D-3**	**MW-15S-1**	**MW-15S-2**	**MW-15D-1**	**MW-15D-2**	**MW-16-1**
DEPTH (FT)		**123-133**	**199-209**	**30-40**	**70-80**	**125-135**	**185-195**	**20-30**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/25/2017**	**7/25/2017**	**7/20/2017**	**7/20/2017**	**7/20/2017**	**7/20/2017**	**7/19/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	1110 J	141	1.3	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	554 J	48.9 J-	U	UJ	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW16-2	CDE-OU3-BLSR2-DUP-04	CDE-OU3-BLSR2-MW16-3	CDE-OU3-BLSR2-MW16-4	CDE-OU3-BLSR2-MW16-5	CDE-OU3-BLSR2-MW16-6	CDE-OU3-BLSR2-FPW-1	CDE-OU3-BLSR2-FPW-2
LOCATION (WELL ID)		MW-16-2	MW-16-2	MW-16-3	MW-16-4	MW-16-5	MW-16-6	FPW-1	FPW-2
DEPTH (FT)		40-50	40-50	85-95	108-118	135-145	170-180	31-41	46-51
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/14/2017	7/14/2017
Aroclor-1221	N/A	U	U	U	U	UJ	U	U	8 J
Aroclor-1232	N/A	U	U	U	U	UJ	U	U	U
Aroclor-1242	N/A	U	U	U	U	UJ	U	U	U
Aroclor-1248	0.5	U	U	U	U	UJ	U	U	U
Aroclor-1254	0.5	U	U	U	U	UJ	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-FPW-3	CDE-OU3-BLSR2-FPW-4	CDE-OU3-BLSR2-FPW-5	CDE-OU3-BLSR2-FPW-6	CDE-OU3-BLSR2-FPW-7	CDE-OU3-BLSR2-FPW-8	CDE-OU3-BLSR2-FPW-9	CDE-OU3-BLSR2-MW16-7
LOCATION (WELL ID)		FPW-3	FPW-4	FPW-5	FPW-6	FPW-7	FPW-8	FPW-9	MW-16-7
DEPTH (FT)		100-110	125-135	180-190	200-205	235-245	268-278	300-310	195-205
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/19/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	1.3	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW17-1	CDE-OU3-BLSR2-MW17-2	CDE-OU3-BLSR2-MW17-3	CDE-OU3-BLSR2-MW18-1	CDE-OU3-BLSR2-MW18-2	CDE-OU3-BLSR2-MW19-1	CDE-OU3-BLSR2-MW19-2
LOCATION (WELL ID)		**MW-17-1**	**MW-17-2**	**MW-17-3**	**MW-18-1**	**MW-18-2**	**MW-19-1**	**MW-19-2**
DEPTH (FT)		**170-180**	**205-215**	**235-245**	**160-170**	**210-220**	**65-75**	**132-142**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/18/2017**	**7/18/2017**	**7/18/2017**	**7/13/2017**	**7/13/2017**	**8/1/2017**	**8/1/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW19-3	CDE-OU3-BLSR2-MW19-4	CDE-OU3-BLSR2-MW19-5	CDE-OU3-BLSR2-MW19-6	CDE-OU3-BLSR2-MW19-7	CDE-OU3-BLSR2-MW20-1	CDE-OU3-BLSR2-MW20-2
LOCATION (WELL ID)		MW-19-3	MW-19-4	MW-19-5	MW-19-6	MW-19-7	MW-20-1	MW-20-2
DEPTH (FT)		200-210	257-267	367-377	480-490	545-555	25-35	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	7/24/2017	7/24/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW20-3	CDE-OU3-BLSR2-MW20-4	CDE-OU3-BLSR2-MW20-5	CDE-OU3-BLSR2-MW20-6	CDE-OU3-BLSR2-MW20-7	CDE-OU3-BLSR2-MW20-8	CDE-OU3-BLSR2-MW21-1
LOCATION (WELL ID)		MW-20-3	MW-20-4	MW-20-5	MW-20-6	MW-20-7	MW-20-8	MW-21-1
DEPTH (FT)		125-135	175-185	205-215	250-260	297-307	355-365	50-60
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/28/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW21-2	CDE-OU3-BLSR2-MW21-3	CDE-OU3-BLSR2-MW21-4	CDE-OU3-BLSR2-MW21-5	CDE-OU3-BLSR2-MW21-6	CDE-OU3-BLSR2-MW21-7	CDE-OU3-BLSR2-MW21-8
LOCATION (WELL ID)		MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6	MW-21-7	MW-21-8
DEPTH (FT)		87-97	150-160	205-215	260-270	428-438	485-495	505-515
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW22-1	CDE-OU3-BLSR2-MW22-2	CDE-OU3-BLSR2-MW22-3	CDE-OU3-BLSR2-MW22-4	CDE-OU3-BLSR2-MW23-1	CDE-OU3-BLSR2-MW23-2	CDE-OU3-BLSR2-MW23-3
LOCATION (WELL ID)		**MW-22-1**	**MW-22-2**	**MW-22-3**	**MW-22-4**	**MW-23-1**	**MW-23-2**	**MW-23-3**
DEPTH (FT)		**45-55**	**125-135**	**210-220**	**305-315**	**60-70**	**120-130**	**170-180**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/17/2017**	**7/17/2017**	**7/17/2017**	**7/17/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW23-4	CDE-OU3-BLSR2-MW23-5	CDE-OU3-BLSR2-MW23-6	CDE-OU3-BLSR2-MW23-7	CDE-OU3-BLSR2-MW23-8	CDE-OU3-BLSR2-DUP-07	CDE-OU3-BLSR2-MW23-9	CDE-OU3-BLSR2-MW24-1
LOCATION (WELL ID)		MW-23-4	MW-23-5	MW-23-6	MW-23-7	MW-23-8	MW-23-8	MW-23-9	MW-24-1
DEPTH (FT)		226-236	258-268	316-326	350-360	406-416	406-416	444-454	85-95
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/31/2017
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW24-2	CDE-OU3-BLSR2-MW24-3	CDE-OU3-BLSR2-MW24-4	CDE-OU3-BLSR2-MW24-5	CDE-OU3-BLSR2-MW24-6	CDE-OU3-BLSR2-DUP-08	CDE-OU3-BLSR2-MW25-1	CDE-OU3-BLSR2-MW25-2
LOCATION (WELL ID)		**MW-24-2**	**MW-24-3**	**MW-24-4**	**MW-24-5**	**MW-24-6**	**MW-24-6**	**MW-25-1**	**MW-25-2**
DEPTH (FT)		**135-145**	**240-250**	**332-342**	**370-380**	**455-465**	**455-465**	**85-95**	**175-185**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/31/2017**	**7/31/2017**	**7/31/2017**	**7/31/2017**	**7/31/2017**	**7/31/2017**	**8/3/2017**	**8/3/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW25-3	CDE-OU3-BLSR2-MW25-4	CDE-OU3-BLSR2-MW25-5	CDE-OU3-BLSR2-MW25-6	CDE-OU3-BLSR2-MW26-1
LOCATION (WELL ID)		MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1
DEPTH (FT)		200-210	275-285	345-355	435-445	95-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/2/2017
Aroclor-1221	N/A	U	U	U	UJ	U
Aroclor-1232	N/A	U	U	U	UJ	U
Aroclor-1242	N/A	U	U	U	UJ	U
Aroclor-1248	0.5	U	U	U	UJ	U
Aroclor-1254	0.5	U	U	U	UJ	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW26-2	CDE-OU3-BLSR2-MW26-3	CDE-OU3-BLSR2-MW26-4	CDE-OU3-BLSR2-MW26-5	CDE-OU3-BLSR2-MW26-6	CDE-OU3-BLSR2-MW27-1	CDE-OU3-BLSR2-MW27-2
LOCATION (WELL ID)		**MW-26-2**	**MW-26-3**	**MW-26-4**	**MW-26-5**	**MW-26-6**	**MW-27-1**	**MW-27-2**
DEPTH (FT)		**175-185**	**255-265**	**305-320**	**385-395**	**455-465**	**85-95**	**180-190**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**8/2/2017**	**8/2/2017**	**8/2/2017**	**8/2/2017**	**8/2/2017**	**7/31/2017**	**7/31/2017**
Aroclor-1221	N/A	U	U	U	U	U	U	U
Aroclor-1232	N/A	U	U	U	U	U	U	U
Aroclor-1242	N/A	U	U	U	U	U	U	U
Aroclor-1248	0.5	U	U	U	U	U	U	U
Aroclor-1254	0.5	U	U	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB AROCLORS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW27-3	CDE-OU3-BLSR2-MW27-4	CDE-OU3-BLSR2-MW27-5
LOCATION (WELL ID)		MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017
Aroclor-1221	N/A	U	U	U
Aroclor-1232	N/A	U	U	U
Aroclor-1242	N/A	U	U	U
Aroclor-1248	0.5	U	U	U
Aroclor-1254	0.5	U	U	U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB CONGENERS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT4-4	CDE-OU3-BLSR2-MW14S-1
LOCATION (WELL ID)		**MW-01A**	**MW-11**	**MW-11**	**MW-12**	**ERT4-4**	**MW-14S-1**
DEPTH (FT)		**24-49**	**34-59**	**34-59**	**35-60**	**83-88**	**30-35**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/11/2017**	**7/11/2017**	**7/11/2017**	**7/11/2017**	**7/19/2017**	**7/25/2017**
PCB-189	N/A	0.0000389	0.00487	0.00634	0.00035	U	0.00712
PCB-167	N/A	0.000171	0.0576 J	0.0705 J	0.00907	U	0.0886
PCB-180	N/A	0.00175 J	0.145 J	0.183 J	0.0126	U	0.227
PCB-170	N/A	0.000941	0.107 J	0.134 J	0.0104	U	0.177 J
PCB-156	N/A	0.000612	0.205 J	0.269 J	0.0325	U	0.318
PCB-105	N/A	0.00211	0.635 J	0.786 J	0.331 J	0.000144	1.16 J
PCB-118	N/A	0.00504	1.38 J	1.6 J	0.647 J	0.000223	2.77 J
PCB-114	N/A	0.0000968	0.0342	0.0401	0.0169	U	0.0648
PCB-123	N/A	0.0000667	0.0205	0.0243	0.0107	U	0.0462
PCB-81	N/A	U	0.0017	0.00191	0.00358	U	U
PCB-77	N/A	0.000147	0.0245	0.0292	0.0905	0.0000686	0.0599
PCB-126	N/A	0.0000224	0.00108	0.0012	0.000622	U	0.00289

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PCB CONGENERS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3	CDE-OU3-BLSR2-MW14D-1	CDE-OU3-BLSR2-MW14D-2	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3	CDE-OU3-BLSR2-MW16-7
LOCATION (WELL ID)		**MW-14S-2**	**MW-14S-3**	**MW-14D-1**	**MW-14D-2**	**MW-14D-2**	**MW-14D-3**	**MW-16-7**
DEPTH (FT)		**41-46**	**55-60**	**80-85**	**123-133**	**123-133**	**199-209**	**195-205**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/19/2017**
PCB-189	N/A	0.00194	0.00103	0.000229	0.00117 J	0.000325 J	0.000736	U
PCB-167	N/A	0.023	0.0118	0.00575	0.0156 J	0.00588 J	0.0106	U
PCB-180	N/A	0.0596	0.0314	0.0104	0.0432 J	0.0129 J	0.0261	U
PCB-170	N/A	0.0404	0.0215	0.00699	0.0296 J	0.00846 J	0.0181	U
PCB-156	N/A	0.0826	0.0414	0.02	0.0576 J	0.0198 J	0.0383	U
PCB-105	N/A	0.373	0.169 J	0.201 J	0.298 J	0.158 J	0.248 J	0.0000489
PCB-118	N/A	0.893 J	0.385 J	0.429 J	0.635 J	0.355 J	0.554 J	0.0000946 U
PCB-114	N/A	0.0219	0.00863	0.0107	0.0179 J	0.00871 J	0.0137	U
PCB-123	N/A	0.0149	0.00576	0.0065	0.0112 J	0.0058 J	0.00933	U
PCB-81	N/A	0.0019	0.000835	0.00365	0.0049	0.00331	0.0048	U
PCB-77	N/A	0.0254	0.0114	0.0916	0.102 J	0.0677 J	0.0916 J	0.0000208
PCB-126	N/A	0.00091	0.00025	0.000373	0.000699 J	0.000287 J	0.000518	U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW02A-SH	CDE-OU3-BLSR2-MW03-SH	CDE-OU3-BLSR2-MW04-SH
LOCATION (WELL ID)		MW-01A	MW-02A	MW-03	MW-04
DEPTH (FT)		24-49	24-49	17-32	29-49
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/11/2017	7/12/2017	7/12/2017
Aldrin	N/A	UJ	U	U	U
Dieldrin	0.03	UJ	U	U	U
Endosulfan I	N/A	UJ	U	U	U
Endrin aldehyde	N/A	UJ	U	U	U
Endrin ketone	N/A	UJ	U	U	U
gamma-BHC (Lindane)	0.03	UJ	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW05-SH	CDE-OU3-BLSR2-MW06-SH	CDE-OU3-BLSR2-MW07-SH	CDE-OU3-BLSR2-MW08-SH
LOCATION (WELL ID)		MW-05	MW-06	MW-07	MW-08
DEPTH (FT)		25-45.5	29-44	43-58	42-57.5
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/10/2017	7/12/2017	7/11/2017	7/11/2017
Aldrin	N/A	U	U	UJ	U
Dieldrin	0.03	U	U	UJ	U
Endosulfan I	N/A	U	U	UJ	U
Endrin aldehyde	N/A	U	U	UJ	U
Endrin ketone	N/A	U	U	UJ	U
gamma-BHC (Lindane)	0.03	0.011 NJ	U	UJ	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW09-SH	CDE-OU3-BLSR2-MW10-SH	CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01
LOCATION (WELL ID)		MW-09	MW-10	MW-11	MW-11
DEPTH (FT)		29-54	37-52	34-59	34-59
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/10/2017	7/11/2017	7/11/2017
Aldrin	N/A	U	U	U	U
Dieldrin	0.03	U	U	U	U
Endosulfan I	N/A	U	U	0.034 NJ	UJ
Endrin aldehyde	N/A	U	U	0.038 NJ	UJ
Endrin ketone	N/A	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT1-1	CDE-OU3-BLSR2-ERT1-2	CDE-OU3-BLSR2-ERT1-3	CDE-OU3-BLSR2-ERT1-4
LOCATION (WELL ID)		MW-12	ERT1-1	ERT1-2	ERT1-3	ERT1-4
DEPTH (FT)		35-60	24-29	33-43	46-56	59-64
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT1-5	CDE-OU3-BLSR2-ERT1-6	CDE-OU3-BLSR2-ERT1-7	CDE-OU3-BLSR2-DUP-03	CDE-OU3-BLSR2-ERT1-8
LOCATION (WELL ID)		ERT1-5	ERT1-6	ERT1-7	ERT1-7	ERT1-8
DEPTH (FT)		67-77	100-105	112-117	112-117	135-140
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT2-1	CDE-OU3-BLSR2-ERT2-2	CDE-OU3-BLSR2-ERT2-4	CDE-OU3-BLSR2-ERT2-5	CDE-OU3-BLSR2-ERT2-6
LOCATION (WELL ID)		ERT2-1	ERT2-2	ERT2-4	ERT2-5	ERT2-6
DEPTH (FT)		25-35	40-50	70-75	97-107	113-123
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/18/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT2-7	CDE-OU3-BLSR2-ERT3-1	CDE-OU3-BLSR2-ERT3-2	CDE-OU3-BLSR2-ERT3-3	CDE-OU3-BLSR2-ERT3-5
LOCATION (WELL ID)		ERT2-7	ERT3-1	ERT3-2	ERT3-3	ERT3-5
DEPTH (FT)		127-137	27-37	55-65	90-105	124-134
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/18/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	0.032	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT3-6	CDE-OU3-BLSR2-ERT4-1	CDE-OU3-BLSR2-ERT4-2	CDE-OU3-BLSR2-ERT4-3	CDE-OU3-BLSR2-ERT4-4
LOCATION (WELL ID)		ERT3-6	ERT4-1	ERT4-2	ERT4-3	ERT4-4
DEPTH (FT)		138-148	27-37	46-56	61-66	83-88
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	7/20/2017	7/20/2017	7/19/2017	7/19/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT4-5	CDE-OU3-BLSR2-ERT4-6	CDE-OU3-BLSR2-ERT4-7	CDE-OU3-BLSR2-ERT5-1	CDE-OU3-BLSR2-ERT5-2
LOCATION (WELL ID)		ERT4-5	ERT4-6	ERT4-7	ERT5-1	ERT5-2
DEPTH (FT)		91-106	111-116	128-138	24-34	37-47
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/20/2017	7/20/2017	7/20/2017	7/21/2017	7/21/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT5-3	CDE-OU3-BLSR2-ERT5-4	CDE-OU3-BLSR2-ERT5-5	CDE-OU3-BLSR2-ERT5-6	CDE-OU3-BLSR2-DUP-05
LOCATION (WELL ID)		ERT5-3	ERT5-4	ERT5-5	ERT5-6	ERT5-6
DEPTH (FT)		50-60	77-87	93-98	120-130	120-130
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/21/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT6-1	CDE-OU3-BLSR2-DUP-02	CDE-OU3-BLSR2-ERT6-2	CDE-OU3-BLSR2-ERT6-3	CDE-OU3-BLSR2-ERT6-4
LOCATION (WELL ID)		ERT6-1	ERT6-1	ERT6-2	ERT6-3	ERT6-4
DEPTH (FT)		26-36	26-36	75-85	93-103	107-117
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT6-5	CDE-OU3-BLSR2-ERT7-1	CDE-OU3-BLSR2-ERT7-2	CDE-OU3-BLSR2-ERT7-3	CDE-OU3-BLSR2-ERT7-4
LOCATION (WELL ID)		ERT6-5	ERT7-1	ERT7-2	ERT7-3	ERT7-4
DEPTH (FT)		128-138	25-35	45-55	65-75	100-110
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/13/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	0.0035 J	0.019	0.033	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT7-5	CDE-OU3-BLSR2-ERT8-1	CDE-OU3-BLSR2-ERT8-2	CDE-OU3-BLSR2-ERT8-3	CDE-OU3-BLSR2-DUP-09
LOCATION (WELL ID)		ERT7-5	ERT8-1	ERT8-2	ERT8-3	ERT8-3
DEPTH (FT)		130-140	17-27	31-41	44-54	44-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
Aldrin	N/A	U	U	0.007 J	U	U
Dieldrin	0.03	U	0.052	0.54 J+	0.1	0.087
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	0.024	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT8-5	CDE-OU3-BLSR2-ERT8-6	CDE-OU3-BLSR2-ERT8-7	CDE-OU3-BLSR2-MW13-1	CDE-OU3-BLSR2-MW13-2
LOCATION (WELL ID)		ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-2
DEPTH (FT)		87-97	107-112	135-145	18-28	35-45
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/2/2017	8/2/2017	8/2/2017	7/21/2017	7/21/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW13-3	CDE-OU3-BLSR2-MW13-4	CDE-OU3-BLSR2-MW13-5	CDE-OU3-BLSR2-MW13-6	CDE-OU3-BLSR2-MW13-7
LOCATION (WELL ID)		MW-13-3	MW-13-4	MW-13-5	MW-13-6	MW-13-7
DEPTH (FT)		63-73	95-105	115-125	150-160	230-240
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW14S-1	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3	CDE-OU3-BLSR2-MW14D-1
LOCATION (WELL ID)		MW-14S-1	MW-14S-2	MW-14S-3	MW-14D-1
DEPTH (FT)		30-35	41-46	55-60	80-85
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/25/2017	7/25/2017	7/25/2017	7/25/2017
Aldrin	N/A	U	U	U	U
Dieldrin	0.03	U	U	U	U
Endosulfan I	N/A	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U
Endrin ketone	N/A	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW14D-2	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3	CDE-OU3-BLSR2-MW15S-1	CDE-OU3-BLSR2-MW15S-2
LOCATION (WELL ID)		MW-14D-2	MW-14D-2	MW-14D-3	MW-15S-1	MW-15S-2
DEPTH (FT)		123-133	123-133	199-209	30-40	70-80
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/25/2017	7/25/2017	7/25/2017	7/20/2017	7/20/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW15D-1	CDE-OU3-BLSR2-MW15D-2	CDE-OU3-BLSR2-MW16-1	CDE-OU3-BLSR2-MW16-2	CDE-OU3-BLSR2-DUP-04
LOCATION (WELL ID)		MW-15D-1	MW-15D-2	MW-16-1	MW-16-2	MW-16-2
DEPTH (FT)		125-135	185-195	20-30	40-50	40-50
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/20/2017	7/20/2017	7/19/2017	7/19/2017	7/19/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW16-3	CDE-OU3-BLSR2-MW16-4	CDE-OU3-BLSR2-MW16-5	CDE-OU3-BLSR2-MW16-6	CDE-OU3-BLSR2-FPW-1
LOCATION (WELL ID)		MW-16-3	MW-16-4	MW-16-5	MW-16-6	FPW-1
DEPTH (FT)		85-95	108-118	135-145	170-180	31-41
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/14/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	0.014	0.011	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-FPW-2	CDE-OU3-BLSR2-FPW-3	CDE-OU3-BLSR2-FPW-4	CDE-OU3-BLSR2-FPW-5	CDE-OU3-BLSR2-FPW-6
LOCATION (WELL ID)		FPW-2	FPW-3	FPW-4	FPW-5	FPW-6
DEPTH (FT)		46-51	100-110	125-135	180-190	200-205
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/14/2017	7/14/2017	7/14/2017	7/14/2017	7/14/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-FPW-7	CDE-OU3-BLSR2-FPW-8	CDE-OU3-BLSR2-FPW-9	CDE-OU3-BLSR2-MW16-7	CDE-OU3-BLSR2-MW17-1
LOCATION (WELL ID)		FPW-7	FPW-8	FPW-9	MW-16-7	MW-17-1
DEPTH (FT)		235-245	268-278	300-310	195-205	170-180
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/14/2017	7/14/2017	7/14/2017	7/19/2017	7/18/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW17-2	CDE-OU3-BLSR2-MW17-3	CDE-OU3-BLSR2-MW18-1	CDE-OU3-BLSR2-MW18-2	CDE-OU3-BLSR2-MW19-1
LOCATION (WELL ID)		MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1
DEPTH (FT)		205-215	235-245	160-170	210-220	65-75
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/18/2017	7/18/2017	7/13/2017	7/13/2017	8/1/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW19-2	CDE-OU3-BLSR2-MW19-3	CDE-OU3-BLSR2-MW19-4	CDE-OU3-BLSR2-MW19-5	CDE-OU3-BLSR2-MW19-6
LOCATION (WELL ID)		MW-19-2	MW-19-3	MW-19-4	MW-19-5	MW-19-6
DEPTH (FT)		132-142	200-210	257-267	367-377	480-490
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW19-7	CDE-OU3-BLSR2-MW20-1	CDE-OU3-BLSR2-MW20-2	CDE-OU3-BLSR2-MW20-3	CDE-OU3-BLSR2-MW20-4
LOCATION (WELL ID)		MW-19-7	MW-20-1	MW-20-2	MW-20-3	MW-20-4
DEPTH (FT)		545-555	25-35	85-95	125-135	175-185
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/1/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW20-5	CDE-OU3-BLSR2-MW20-6	CDE-OU3-BLSR2-MW20-7	CDE-OU3-BLSR2-MW20-8	CDE-OU3-BLSR2-MW21-1
LOCATION (WELL ID)		MW-20-5	MW-20-6	MW-20-7	MW-20-8	MW-21-1
DEPTH (FT)		205-215	250-260	297-307	355-365	50-60
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/28/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW21-2	CDE-OU3-BLSR2-MW21-3	CDE-OU3-BLSR2-MW21-4	CDE-OU3-BLSR2-MW21-5	CDE-OU3-BLSR2-MW21-6
LOCATION (WELL ID)		MW-21-2	MW-21-3	MW-21-4	MW-21-5	MW-21-6
DEPTH (FT)		87-97	150-160	205-215	260-270	428-438
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW21-7	CDE-OU3-BLSR2-MW21-8	CDE-OU3-BLSR2-MW22-1	CDE-OU3-BLSR2-MW22-2	CDE-OU3-BLSR2-MW22-3
LOCATION (WELL ID)		MW-21-7	MW-21-8	MW-22-1	MW-22-2	MW-22-3
DEPTH (FT)		485-495	505-515	45-55	125-135	210-220
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/28/2017	7/28/2017	7/17/2017	7/17/2017	7/17/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW22-4	CDE-OU3-BLSR2-MW23-1	CDE-OU3-BLSR2-MW23-2	CDE-OU3-BLSR2-MW23-3	CDE-OU3-BLSR2-MW23-4
LOCATION (WELL ID)		MW-22-4	MW-23-1	MW-23-2	MW-23-3	MW-23-4
DEPTH (FT)		305-315	60-70	120-130	170-180	226-236
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	0.0071 J	0.0059 J	0.0038 J
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW23-5	CDE-OU3-BLSR2-MW23-6	CDE-OU3-BLSR2-MW23-7	CDE-OU3-BLSR2-MW23-8	CDE-OU3-BLSR2-DUP-07
LOCATION (WELL ID)		MW-23-5	MW-23-6	MW-23-7	MW-23-8	MW-23-8
DEPTH (FT)		258-268	316-326	350-360	406-416	406-416
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW23-9	CDE-OU3-BLSR2-MW24-1	CDE-OU3-BLSR2-MW24-2	CDE-OU3-BLSR2-MW24-3	CDE-OU3-BLSR2-MW24-4
LOCATION (WELL ID)		MW-23-9	MW-24-1	MW-24-2	MW-24-3	MW-24-4
DEPTH (FT)		444-454	85-95	135-145	240-250	332-342
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/27/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW24-5	CDE-OU3-BLSR2-MW24-6	CDE-OU3-BLSR2-DUP-08	CDE-OU3-BLSR2-MW25-1	CDE-OU3-BLSR2-MW25-2
LOCATION (WELL ID)		MW-24-5	MW-24-6	MW-24-6	MW-25-1	MW-25-2
DEPTH (FT)		370-380	455-465	455-465	85-95	175-185
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017	8/3/2017	8/3/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW25-3	CDE-OU3-BLSR2-MW25-4	CDE-OU3-BLSR2-MW25-5	CDE-OU3-BLSR2-MW25-6	CDE-OU3-BLSR2-MW26-1
LOCATION (WELL ID)		MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1
DEPTH (FT)		200-210	275-285	345-355	435-445	95-105
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/2/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW26-2	CDE-OU3-BLSR2-MW26-3	CDE-OU3-BLSR2-MW26-4	CDE-OU3-BLSR2-MW26-5	CDE-OU3-BLSR2-MW26-6
LOCATION (WELL ID)		MW-26-2	MW-26-3	MW-26-4	MW-26-5	MW-26-6
DEPTH (FT)		175-185	255-265	305-320	385-395	455-465
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
PESTICIDES
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW27-1	CDE-OU3-BLSR2-MW27-2	CDE-OU3-BLSR2-MW27-3	CDE-OU3-BLSR2-MW27-4	CDE-OU3-BLSR2-MW27-5
LOCATION (WELL ID)		MW-27-1	MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		85-95	180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Aldrin	N/A	U	U	U	U	U
Dieldrin	0.03	U	U	U	U	U
Endosulfan I	N/A	U	U	U	U	U
Endrin aldehyde	N/A	U	U	U	U	U
Endrin ketone	N/A	U	U	U	U	U
gamma-BHC (Lindane)	0.03	U	U	U	U	U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
DIOXINS/FURANS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT4-4	CDE-OU3-BLSR2-MW14S-1
LOCATION (WELL ID)		MW-01A	MW-11	MW-11	MW-12	ERT4-4	MW-14S-1
DEPTH (FT)		24-49	34-59	34-59	35-60	83-88	30-35
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/19/2017	7/25/2017
2,3,7,8-TCDF	N/A	U	0.0000279	0.0000301	0.0000232	U	0.0000669
1,2,3,4,6,7,8-HpCDF	N/A	0.00000237 J	0.0000135 J	0.0000183 J	0.00000519 J	U	0.000179
2,3,4,7,8-PeCDF	N/A	U	0.0000432	0.0000583	0.00000983 J	U	0.000142
1,2,3,6,7,8-HxCDF	N/A	U	0.0000149 J	0.0000204 J	U	U	0.000199
1,2,3,4,7,8-HxCDF	N/A	U	0.0000409	0.0000469	0.00000368 J	U	0.000427
1,2,3,7,8,9-HxCDD	N/A	U	U	U	U	0.00000278 J	U
OCDF	N/A	0.00000303 J	U	0.0000128 J	0.0000132 J	U	0.000172
OCDD	N/A	U	0.0000111 J	0.0000218 J	0.000128	U	0.00000888 J
1,2,3,4,6,7,8-HpCDD	N/A	0.000000728 J	U	0.0000012 J	0.0000116 J	U	0.00000383 J
1,2,3,4,7,8,9-HpCDF	N/A	U	0.00000903 J	0.000011 J	U	U	0.000131
1,2,3,7,8-PeCDF	N/A	U	U	0.0000136 J	U	U	0.0000345
2,3,4,6,7,8-HxCDF	N/A	U	0.00000991 J	0.0000109 J	U	U	0.0000922
1,2,3,7,8,9-HxCDF	N/A	U	0.00000489 J	0.00000568 J	U	U	0.0000399

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
DIOXINS/FURANS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3	CDE-OU3-BLSR2-MW14D-1	CDE-OU3-BLSR2-MW14D-2	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3	CDE-OU3-BLSR2-MW16-7
LOCATION (WELL ID)		**MW-14S-2**	**MW-14S-3**	**MW-14D-1**	**MW-14D-2**	**MW-14D-2**	**MW-14D-3**	**MW-16-7**
DEPTH (FT)		**41-46**	**55-60**	**80-85**	**123-133**	**123-133**	**199-209**	**195-205**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/25/2017**	**7/19/2017**
2,3,7,8-TCDF	N/A	0.000026 J	0.0000111	0.00000519 J	0.00000363 J	0.00000361 J	0.00000328 J	U
1,2,3,4,6,7,8-HpCDF	N/A	0.0000357	0.00000365 J	U	0.00000253 J	U	U	U
2,3,4,7,8-PeCDF	N/A	0.0000569	0.0000215 J	U	0.00000787 J	0.00000575 J	0.00000436 J	U
1,2,3,6,7,8-HxCDF	N/A	0.0000365	0.00000393 J	U	0.00000282 J	U	U	U
1,2,3,4,7,8-HxCDF	N/A	0.0000731	0.00000826 J	U	0.00000652 J	U	0.0000036 J	U
1,2,3,7,8,9-HxCDD	N/A	U	U	U	U	U	U	U
OCDF	N/A	U	0.00000327 J	U	0.00000279 J	U	U	U
OCDD	N/A	U	0.00000369 J	U	U	U	U	U
1,2,3,4,6,7,8-HpCDD	N/A	U	U	U	U	U	U	U
1,2,3,4,7,8,9-HpCDF	N/A	0.0000255 J	0.00000189 J	U	0.00000183 J	U	U	U
1,2,3,7,8-PeCDF	N/A	U	U	U	U	U	U	U
2,3,4,6,7,8-HxCDF	N/A	0.0000146 J	U	U	0.00000191 J	U	U	U
1,2,3,7,8,9-HxCDF	N/A	0.00000957 J	U	U	0.000000652 J	U	U	U

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141), the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW01A-SH	CDE-OU3-BLSR2-MW02A-SH	CDE-OU3-BLSR2-MW03-SH	CDE-OU3-BLSR2-MW04-SH	CDE-OU3-BLSR2-MW05-SH	CDE-OU3-BLSR2-MW06-SH	CDE-OU3-BLSR2-MW07-SH	CDE-OU3-BLSR2-MW08-SH
LOCATION (WELL ID)		**MW-01A**	**MW-02A**	**MW-03**	**MW-04**	**MW-05**	**MW-06**	**MW-07**	**MW-08**
DEPTH (FT)		**24-49**	**24-49**	**17-32**	**29-49**	**25-45.5**	**29-44**	**43-58**	**42-57.5**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/11/2017**	**7/11/2017**	**7/12/2017**	**7/12/2017**	**7/10/2017**	**7/12/2017**	**7/11/2017**	**7/11/2017**
Aluminum	50	170	70	2800	3900	23	5000	300	230
Arsenic	3	1 U	1 U	1.8	1.9	2.5	1.5	1 U	1 U
Barium	2,000	970	690	230	250	96	110	2800	920
Cadmium	4	1 U	1 U	1 U	1 U	1 U	2.6	1 U	1 U
Calcium	N/A	75000	56000	110000	83000	69000	250000	220000	140000
Chromium	70	1.9	1 U	6.8	29	14	18	11	25
Cobalt	N/A	1 U	1 U	2.6	2.8	1 U	5.5	1 U	1 U
Copper	N/A	1 U	1.1	7.1 K	21	2.6	21	2.3	1.5
Iron	300	140	340	5000	2700	63	9000	420	310
Lead	5	1.2	1.6	11	7.7	2.3	7.5	2.6	2.2
Magnesium	N/A	17000	12000	28000	21000	20000	27000	23000	19000
Manganese	50	9.2	720	410	840	310	240	38	24
Nickel	N/A	1.6	3.6	9.7	12	3.3	21	8.2	12
Potassium	N/A	1500	1200	3500	2000	2000	3000	2200	1300
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	20000	61000	40000	13000	21000	100000	18000	15000
Vanadium	N/A	4.4	1 U	6.8	9.1	8.9	21	2.9	4.1
Zinc	N/A	3.6	3.5	54	56	2.9	26	9.1	2.7

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW09-SH	CDE-OU3-BLSR2-MW10-SH	CDE-OU3-BLSR2-MW11-SH	CDE-OU3-BLSR2-DUP-01	CDE-OU3-BLSR2-MW12-SH	CDE-OU3-BLSR2-ERT1-1	CDE-OU3-BLSR2-ERT1-2	CDE-OU3-BLSR2-ERT1-3	CDE-OU3-BLSR2-ERT1-4
LOCATION (WELL ID)		**MW-09**	**MW-10**	**MW-11**	**MW-11**	**MW-12**	**ERT1-1**	**ERT1-2**	**ERT1-3**	**ERT1-4**
DEPTH (FT)		**29-54**	**37-52**	**34-59**	**34-59**	**35-60**	**24-29**	**33-43**	**46-56**	**59-64**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/11/2017**	**7/10/2017**	**7/11/2017**	**7/11/2017**	**7/11/2017**	**7/17/2017**	**7/17/2017**	**7/17/2017**	**7/17/2017**
Aluminum	50	33	290	190	230	680	57	16 U	16 U	16 U
Arsenic	3	1.6	2.1	1 U	1 U	1 U	2.3	1.5	1.6	2
Barium	2,000	36	450	1700	1700	620	110	91	120	100
Cadmium	4	1 U	1 U	1.1	1.2	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	340000	39000	94000	97000	330000	67000	69000	70000	63000
Chromium	70	2.5	21	7.2	7.4	1.8	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	180	2.9	5	5.4	3.5	1 U	1 U	1 U	1 U
Iron	300	37	330	650	660	1500	44	20 U	20 U	20 U
Lead	5	2.2	1.8	1.4	1.2	5.3	1 U	1.8	1	1.2
Magnesium	N/A	45000	7600	14000	15000	29000	18000	18000	19000	18000
Manganese	50	110	47	960	990	300	16	1 U	7.2	48
Nickel	N/A	1.2	8	7.7	7.7	2.8	1 U	1 U	1 U	1 U
Potassium	N/A	2000	1000	1400	1500	1900	1400	1400	1500	1400
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	34000	11000	14000	15000	47000	13000	14000	14000	15000
Vanadium	N/A	2.6	6.3	3.1	3.1	7.2	4.8	5.5	6.4	5.7
Zinc	N/A	2.9	4.2	18	19	6.6	5.2	3.5	6	2.4

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT1-5	CDE-OU3-BLSR2-ERT1-6	CDE-OU3-BLSR2-ERT1-7	CDE-OU3-BLSR2-DUP-03	CDE-OU3-BLSR2-ERT1-8	CDE-OU3-BLSR2-ERT2-1	CDE-OU3-BLSR2-ERT2-2	CDE-OU3-BLSR2-ERT2-4	CDE-OU3-BLSR2-ERT2-5
LOCATION (WELL ID)		ERT1-5	ERT1-6	ERT1-7	ERT1-7	ERT1-8	ERT2-1	ERT2-2	ERT2-4	ERT2-5
DEPTH (FT)		67-77	100-105	112-117	112-117	135-140	25-35	40-50	70-75	97-107
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/18/2017	7/18/2017	7/18/2017	7/18/2017
Aluminum	50	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Arsenic	3	2.1	1.4	1.8	1.8	1.5	1.3	1 U	1.3	1.5
Barium	2,000	110	78	93	98	96	8600	2200	860	620
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	65000	65000	66000	67000	72000	650000	290000	87000	82000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iron	300	20 U	20 U	20 U	20 U	20 U	210	20 U	20 U	20 U
Lead	5	1	1.5	1 U	1 U	1 U	1 U	2.5	1.3	1.4
Magnesium	N/A	19000	20000	20000	21000	24000	47000	28000	15000	19000
Manganese	50	150	1.5	26	26	2.1	170	3.8	1.9	1.3
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1400	1500	1500	1600	1500	3400	1900	1500	1800
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	15000	20000	21000	22000	19000	52000	32000	14000	14000
Vanadium	N/A	5.5	4.8	4.7	4.9	4.3	1.4	2.4	4.7	5.7
Zinc	N/A	2.2	4.8	2 U	2.1	4.5	6.4	12	5.1	4

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT2-6	CDE-OU3-BLSR2-ERT2-7	CDE-OU3-BLSR2-ERT3-1	CDE-OU3-BLSR2-ERT3-2	CDE-OU3-BLSR2-ERT3-3	CDE-OU3-BLSR2-ERT3-5	CDE-OU3-BLSR2-ERT3-6	CDE-OU3-BLSR2-ERT4-1	CDE-OU3-BLSR2-ERT4-2
LOCATION (WELL ID)		ERT2-6	ERT2-7	ERT3-1	ERT3-2	ERT3-3	ERT3-5	ERT3-6	ERT4-1	ERT4-2
DEPTH (FT)		113-123	127-137	27-37	55-65	90-105	124-134	138-148	27-37	46-56
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/18/2017	7/18/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/20/2017	7/20/2017
Aluminum	50	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Arsenic	3	1.8	2.1	6	2	3	3.4	3.8	1.7	1.5
Barium	2,000	360	120	450	510	240	61	36	79	81
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	74000	65000	190000	140000	130000	66000	62000	68000	68000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1.1	1 U	1 U	1 U	2.6	1 U	2.5	1 U	1 U
Iron	300	20 U	20 U	37	20 U	20 U	20 U	20 U	20 U	20 U
Lead	5	1.9	1.1	3.9	1.3	1.6	2.6	1 U	1 U	1.2
Magnesium	N/A	20000	23000	17000	42000	40000	22000	23000	23000	23000
Manganese	50	6.5	1.4	200	56	29	1 U	1 U	2.7	1.5
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1600	1600	2500	2000	2800	1500	1500	1400	1400
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	15000	14000	140000	32000	34000	20000	18000	17000	15000
Vanadium	N/A	6.4	8.6	2.7	7.2	10	11	14	6.9	6
Zinc	N/A	16	2 U	4.9	3	4.2	3.9	4.9	4.8	2 U

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT4-3	CDE-OU3-BLSR2-ERT4-4	CDE-OU3-BLSR2-ERT4-5	CDE-OU3-BLSR2-ERT4-6	CDE-OU3-BLSR2-ERT4-7	CDE-OU3-BLSR2-ERT5-1	CDE-OU3-BLSR2-ERT5-2	CDE-OU3-BLSR2-ERT5-3	CDE-OU3-BLSR2-ERT5-4
LOCATION (WELL ID)		ERT4-3	ERT4-4	ERT4-5	ERT4-6	ERT4-7	ERT5-1	ERT5-2	ERT5-3	ERT5-4
DEPTH (FT)		61-66	83-88	91-106	111-116	128-138	24-34	37-47	50-60	77-87
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/19/2017	7/19/2017	7/20/2017	7/20/2017	7/20/2017	7/21/2017	7/21/2017	7/21/2017	7/24/2017
Aluminum	50	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Arsenic	3	1.5	2.3	2.4	2.6	2.8	1 U	1.2	1.8	1.4
Barium	2,000	84	52	46	43	43	140	210	140	100
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	79000	67000	61000	61000	62000	71000	84000	60000	52000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1.8	1.7	1 U
Iron	300	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Lead	5	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Magnesium	N/A	27000	27000	24000	25000	25000	5700	8000	20000	17000
Manganese	50	4	1 U	1 U	1 U	1 U	14	1 U	1.3	1 U
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1600	1500	1400	1400	1400	490	680	1400	1100
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	18000	19000	17000	17000	17000	17000	18000	12000	12000
Vanadium	N/A	6.6	9.9	10	11	11	3.1	4.9	7.1	6
Zinc	N/A	2 U	2.2	5.2	2 U	2.5	2 U	2.2	6.2	7.2

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT5-5	CDE-OU3-BLSR2-ERT5-6	CDE-OU3-BLSR2-DUP-05	CDE-OU3-BLSR2-ERT6-1	CDE-OU3-BLSR2-DUP-02	CDE-OU3-BLSR2-ERT6-2	CDE-OU3-BLSR2-ERT6-3	CDE-OU3-BLSR2-ERT6-4	CDE-OU3-BLSR2-ERT6-5
LOCATION (WELL ID)		**ERT5-5**	**ERT5-6**	**ERT5-6**	**ERT6-1**	**ERT6-1**	**ERT6-2**	**ERT6-3**	**ERT6-4**	**ERT6-5**
DEPTH (FT)		**93-98**	**120-130**	**120-130**	**26-36**	**26-36**	**75-85**	**93-103**	**107-117**	**128-138**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/24/2017**	**7/24/2017**	**7/24/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**	**7/13/2017**
Aluminum	50	16 U	16 U	16 U	16 U	16 U	17	19	23	240
Arsenic	3	2	2.2	2.4	2.6	2.7	1.8	1.4	1.9	2.3
Barium	2,000	110	88	93	780	830	270	220	200	79
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	60000	52000	58000	59000	65000	75000	78000	74000	61000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	11	1 U	1 U	1 U	1 U	1	1.4	5.3
Iron	300	20 U	20 U	20 U	4100	1500	20 U	20 U	20 U	20 U
Lead	5	1 U	1.2	1 U	1 U	1 U	3.2	3.3	4	3.2
Magnesium	N/A	20000	20000	21000	7700	9100	10000	11000	14000	23000
Manganese	50	1 U	1 U	1 U	380	140	1 U	1 U	1 U	1 U
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1400	1300	1400	1900	1400	1000	1000	1100	1500
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	14000	13000	15000	13000	12000	12000	13000	13000	16000
Vanadium	N/A	7.8	8.5	9.5	2.4	3.8	5.1	5.1	5.9	8.9
Zinc	N/A	4.6	15	6.2	2.9	2.5	7	5.2	17	3.5

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT7-1	CDE-OU3-BLSR2-ERT7-2	CDE-OU3-BLSR2-ERT7-3	CDE-OU3-BLSR2-ERT7-4	CDE-OU3-BLSR2-ERT7-5	CDE-OU3-BLSR2-ERT8-1	CDE-OU3-BLSR2-ERT8-2	CDE-OU3-BLSR2-ERT8-3	CDE-OU3-BLSR2-DUP-09
LOCATION (WELL ID)		ERT7-1	ERT7-2	ERT7-3	ERT7-4	ERT7-5	ERT8-1	ERT8-2	ERT8-3	ERT8-3
DEPTH (FT)		25-35	45-55	65-75	100-110	130-140	17-27	31-41	44-54	44-54
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
Aluminum	50	39	16 U	16 U	16 U	29	64	35	16 U	20
Arsenic	3	2.1	1.8	1.4	1.2	4.3	1 U	1 U	1 U	1 U
Barium	2,000	970	920	930	860	89	1100	1500	1200	1100
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	77000	70000	55000	59000	39000	120000	140000	120000	120000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	3.4	1 U	2.1	1	21	1.5	2.1	1.1	1 U
Iron	300	52	20 U	20 U	20 U	40	47	28	20 U	20 U
Lead	5	4.7	1.6	7.3	4.9	2.1	3.7	2.5	2.6	4.4
Magnesium	N/A	5800	9200	14000	16000	15000	9600	12000	9500	9800
Manganese	50	4.8	2.4	1.3	2.7	72	8.5	8.3	1 U	1 U
Nickel	N/A	1 U	1 U	1 U	1 U	6.7	1 U	1 U	1 U	1 U
Potassium	N/A	1000	1100	1100	1200	1400	1000	1200	960	950
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	12000	10000	9200	9800	24000	14000	14000	11000	11000
Vanadium	N/A	5.1	3.4	5.6	4.7	6.4	3.6	2.7	2	2
Zinc	N/A	17	3.5	12	15	23	8.4	8.7	25	12

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-ERT8-5	CDE-OU3-BLSR2-ERT8-6	CDE-OU3-BLSR2-ERT8-7	CDE-OU3-BLSR2-MW13-1	CDE-OU3-BLSR2-MW13-2	CDE-OU3-BLSR2-MW13-3	CDE-OU3-BLSR2-MW13-4	CDE-OU3-BLSR2-MW13-5	CDE-OU3-BLSR2-MW13-6
LOCATION (WELL ID)		ERT8-5	ERT8-6	ERT8-7	MW-13-1	MW-13-2	MW-13-3	MW-13-4	MW-13-5	MW-13-6
DEPTH (FT)		87-97	107-112	135-145	18-28	35-45	63-73	95-105	115-125	150-160
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/2/2017	8/2/2017	8/2/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017	7/21/2017
Aluminum	50	16 U	16 U	16 U	86	16 U	16 U	16 U	16 U	16 U
Arsenic	3	2.9	4.9	2.1	4	4.4	3.5	2.5	2.5	3.2
Barium	2,000	310	210	100	550	760	280	160	220	230
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	43000	42000	62000	89000	130000	65000	56000	59000	58000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1.7	1 U	1.1	2.6	1 U	3.4	4.4	3	1.2
Iron	300	20 U	20 U	20 U	59	20 U	20 U	21	20 U	20 U
Lead	5	3.6	2.2	1.7	1 U	1 U	2.4	7.5	4.5	1.1
Magnesium	N/A	18000	21000	20000	7800	26000	21000	18000	18000	23000
Manganese	50	1 U	8.2	1 U	31	510	12	7.4	3.8	6.9
Nickel	N/A	1 U	1 U	1 U	2.8	2.1	3.3	2.6	1 U	1.6
Potassium	N/A	1400	1900	1400	8800	2700	1500	1200	1300	1400
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	9000	11000	14000	34000	18000	13000	12000	11000	11000
Vanadium	N/A	5.3	8.3	6.4	1.3	1 U	7	6.8	6.8	7.8
Zinc	N/A	9.5	13	7	16	4.7	17	21	15	9.4

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW13-7	CDE-OU3-BLSR2-MW14S-1	CDE-OU3-BLSR2-MW14S-2	CDE-OU3-BLSR2-MW14S-3	CDE-OU3-BLSR2-MW14D-1	CDE-OU3-BLSR2-MW14D-2	CDE-OU3-BLSR2-DUP-06	CDE-OU3-BLSR2-MW14D-3
LOCATION (WELL ID)		MW-13-7	MW-14S-1	MW-14S-2	MW-14S-3	MW-14D-1	MW-14D-2	MW-14D-2	MW-14D-3
DEPTH (FT)		230-240	30-35	41-46	55-60	80-85	123-133	123-133	199-209
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/21/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Aluminum	50	28	87	16 U	16 U	25	16 U	16 U	16 U
Arsenic	3	3.1	1.6	1.4	1.9	4.6	3.4	3.7	2.5
Barium	2,000	150	1300	1100	880	280	68	75	51
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	77000	120000	93000	100000	99000	60000	64000	59000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	2.9	5.5	1.4	1 U	1 U	1 U	1 U
Iron	300	33	100	25	22	170	20 U	20 U	20 U
Lead	5	1.3	4.6	12	7.3	1 U	1 U	1 U	1
Magnesium	N/A	26000	13000	22000	24000	27000	24000	24000	24000
Manganese	50	60	470	570	730	340	42	49	6
Nickel	N/A	1.1	1 U	1	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1700	2300	2000	2200	2000	1700	1800	1600
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	17000	24000	18000	19000	19000	20000	21000	19000
Vanadium	N/A	4	1 U	3.2	1 U	1 U	3.8	4.1	6.3
Zinc	N/A	4.9	5.2	9.2	3.4	2 U	8.2	11	7.4

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW15S-1	CDE-OU3-BLSR2-MW15S-2	CDE-OU3-BLSR2-MW15D-1	CDE-OU3-BLSR2-MW15D-2	CDE-OU3-BLSR2-MW16-1	CDE-OU3-BLSR2-MW16-2	CDE-OU3-BLSR2-DUP-04	CDE-OU3-BLSR2-MW16-3	CDE-OU3-BLSR2-MW16-4
LOCATION (WELL ID)		MW-15S-1	MW-15S-2	MW-15D-1	MW-15D-2	MW-16-1	MW-16-2	MW-16-2	MW-16-3	MW-16-4
DEPTH (FT)		30-40	70-80	125-135	185-195	20-30	40-50	40-50	85-95	108-118
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/20/2017	7/20/2017	7/20/2017	7/20/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017	7/19/2017
Aluminum	50	16 U	16 U	16 U	16 U	140	16 U	16 U	16 U	16 U
Arsenic	3	1 U	2.7	3.1	2.2	1.2	1.3	1.2	3.5	2.9
Barium	2,000	860	230	69	46	590	540	590	75	100
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	150000	64000	60000	55000	64000	66000	67000	53000	61000
Chromium	70	1 U	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	1.3	1 U	1 U	1 U	1 U	1	1 U	1 U
Iron	300	20 U	20 U	20 U	20 U	100	20 U	20 U	20 U	20 U
Lead	5	1	1 U	1 U	1 U	1 U	1 U	1.6	1 U	1 U
Magnesium	N/A	16000	21000	21000	21000	11000	16000	14000	23000	25000
Manganese	50	10	6.2	5.2	12	180	71	66	39	33
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1400	1200	1500	1300	1800	1600	1700	1700	1600
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	17000	13000	15000	13000	39000	22000	22000	16000	15000
Vanadium	N/A	4.3	4.5	8.2	6.4	2.2	2.5	2.1	7.8	7.6
Zinc	N/A	2 U	2.9	3.2	2 U	3	5.9	8.8	7.3	3.4

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW16-5	CDE-OU3-BLSR2-MW16-6	CDE-OU3-BLSR2-MW16-7	CDE-OU3-BLSR2-FPW-1	CDE-OU3-BLSR2-FPW-2	CDE-OU3-BLSR2-FPW-3	CDE-OU3-BLSR2-FPW-4	CDE-OU3-BLSR2-FPW-5	CDE-OU3-BLSR2-FPW-6
LOCATION (WELL ID)		**MW-16-5**	**MW-16-6**	**MW-16-7**	**FPW-1**	**FPW-2**	**FPW-3**	**FPW-4**	**FPW-5**	**FPW-6**
DEPTH (FT)		**135-145**	**170-180**	**195-205**	**31-41**	**46-51**	**100-110**	**125-135**	**180-190**	**200-205**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/19/2017**	**7/19/2017**	**7/19/2017**	**7/14/2017**	**7/14/2017**	**7/14/2017**	**7/14/2017**	**7/14/2017**	**7/14/2017**
Aluminum	50	20	58	16 U	16 U	16 U	16 U	31	16 U	18
Arsenic	3	4.2	5.6	5	1.7	2.5	2.8	3.7	4.2	4.8
Barium	2,000	68	70	140	590	220	120	140	140	130
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	55000	58000	54000	94000	120000	74000	62000	58000	49000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	4.4	2.6	1 U	1.3	1 U	1 U	1 U	1
Iron	300	20 U	48	20 U	160	32	20 U	20 U	35	23
Lead	5	2	5.2	6.7	1 U	1 U	3.8	1 U	1 U	3.1
Magnesium	N/A	23000	23000	23000	17000	27000	28000	23000	24000	21000
Manganese	50	56	43	3.6	1600	470	74	150	460	180
Nickel	N/A	1 U	1 U	1 U	3.2	15	1.8	1 U	1 U	2.6
Potassium	N/A	1500	1500	1400	1900	1700	1800	1500	1500	1600
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	15000	17000	13000	22000	21000	16000	15000	13000	13000
Vanadium	N/A	5.2	15	14	1 U	4.2	8.6	11	7.3	7.7
Zinc	N/A	4	14	3.1	2.2	2.8	3.4	3.2	4.6	4.2

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-FPW-7	CDE-OU3-BLSR2-FPW-8	CDE-OU3-BLSR2-FPW-9	CDE-OU3-BLSR2-MW17-1	CDE-OU3-BLSR2-MW17-2	CDE-OU3-BLSR2-MW17-3	CDE-OU3-BLSR2-MW18-1	CDE-OU3-BLSR2-MW18-2	CDE-OU3-BLSR2-MW19-1
LOCATION (WELL ID)		FPW-7	FPW-8	FPW-9	MW-17-1	MW-17-2	MW-17-3	MW-18-1	MW-18-2	MW-19-1
DEPTH (FT)		235-245	268-278	300-310	170-180	205-215	235-245	160-170	210-220	65-75
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/14/2017	7/14/2017	7/14/2017	7/18/2017	7/18/2017	7/18/2017	7/13/2017	7/13/2017	8/1/2017
Aluminum	50	18	16 U	26	16 U	16 U	17	16 U	16 U	45
Arsenic	3	4.6	4.3	2.3	2.5	3.2	4.8	3.8	2.5	1.8
Barium	2,000	89	93	59	51	43	63	52	47	54
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	48000	62000	62000	52000	55000	62000	55000	52000	66000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	5	1.3	1.8	2.6	2.6	3.4	1 U	2.6	1.2
Iron	300	20	20 U	20 U	20 U	20 U	20 U	20 U	20 U	44
Lead	5	15	3.3	6.2	3.8	4.1	9.4	3.4	5.1	1.3
Magnesium	N/A	20000	25000	26000	22000	22000	24000	23000	22000	20000
Manganese	50	120	78	25	3.5	4.3	59	4	1 U	24
Nickel	N/A	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1300	1500	1500	1300	1300	1800	1600	1500	1200
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	11000	13000	15000	14000	16000	19000	15000	16000	13000
Vanadium	N/A	8.8	8.9	6.8	8.4	9.8	6.3	11	9.4	5.7
Zinc	N/A	28	6.1	24	9.9	33	18	4	14	8.3

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW19-2	CDE-OU3-BLSR2-MW19-3	CDE-OU3-BLSR2-MW19-4	CDE-OU3-BLSR2-MW19-5	CDE-OU3-BLSR2-MW19-6	CDE-OU3-BLSR2-MW19-7	CDE-OU3-BLSR2-MW20-1	CDE-OU3-BLSR2-MW20-2	CDE-OU3-BLSR2-MW20-3
LOCATION (WELL ID)		**MW-19-2**	**MW-19-3**	**MW-19-4**	**MW-19-5**	**MW-19-6**	**MW-19-7**	**MW-20-1**	**MW-20-2**	**MW-20-3**
DEPTH (FT)		**132-142**	**200-210**	**257-267**	**367-377**	**480-490**	**545-555**	**25-35**	**85-95**	**125-135**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**8/1/2017**	**8/1/2017**	**8/1/2017**	**8/1/2017**	**8/1/2017**	**8/1/2017**	**7/24/2017**	**7/24/2017**	**7/24/2017**
Aluminum	50	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Arsenic	3	2.5	2.8	3	4.2	2.8	3.1	2.7	1.9	2.8
Barium	2,000	56	29	25	19	6.8	9.3	550	140	140
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	46000	55000	56000	87000	470000	510000	160000	77000	66000
Chromium	70	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	1 U	1 U	1 U	1 U	1 U	6.5	18	1 U
Iron	300	20 U	20 U	20 U	20 U	21	20 U	2600	20 U	20 U
Lead	5	3.7	1 U	2	4.8	1 U	1 U	3.8	4.6	1
Magnesium	N/A	19000	28000	29000	35000	110000	110000	38000	22000	23000
Manganese	50	2.2	27	39	29	180	390	870	12	3
Nickel	N/A	1.6	1 U	1 U	1 U	1 U	1 U	3.9	5.8	1 U
Potassium	N/A	1200	1400	1400	1500	4100	3900	4900	1800	1600
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	9200	15000	19000	26000	110000	76000	200000	24000	16000
Vanadium	N/A	12	11	10	17	7.5	11	2.3	8.9	13
Zinc	N/A	18	3.7	12	14	2 U	2 U	51	98	7.4

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW20-4	CDE-OU3-BLSR2-MW20-5	CDE-OU3-BLSR2-MW20-6	CDE-OU3-BLSR2-MW20-7	CDE-OU3-BLSR2-MW20-8	CDE-OU3-BLSR2-MW21-1	CDE-OU3-BLSR2-MW21-2	CDE-OU3-BLSR2-MW21-3	CDE-OU3-BLSR2-MW21-4
LOCATION (WELL ID)		MW-20-4	MW-20-5	MW-20-6	MW-20-7	MW-20-8	MW-21-1	MW-21-2	MW-21-3	MW-21-4
DEPTH (FT)		175-185	205-215	250-260	297-307	355-365	50-60	87-97	150-160	205-215
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017
Aluminum	50	16 U	16 U	16 U	16 U	16 U	180	200	32	16
Arsenic	3	4.4	4.5	4.2	4.7	8.6	3.2	2.9	3.3	3.1
Barium	2,000	180	110	87	34	29	20	19	18	20
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	53000	51000	57000	58000	61000	140000	130000	150000	140000
Chromium	70	1 U	1 U	1 U	1 U	1	1	1.1	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	1 U	1.8	8.3	1.7	6.2	4	1.9	12
Iron	300	20 U	20 U	20 U	20 U	20 U	190	210	28	34
Lead	5	1.1	1.7	2.4	2.3	4.7	12	11	12	15
Magnesium	N/A	23000	27000	31000	25000	28000	37000	35000	40000	37000
Manganese	50	9.6	5.3	1.1	2.1	4.7	4.6	6.3	2	3.8
Nickel	N/A	1 U	1 U	1 U	4.2	2	3.5	1.6	1.5	38
Potassium	N/A	1800	1700	1900	1700	1700	1800	1700	1900	1800
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	13000	16000	18000	17000	18000	36000	33000	37000	35000
Vanadium	N/A	14	13	15	16	22	11	11	11	10
Zinc	N/A	26	6	35	41	65	24	23	24	56

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW21-5	CDE-OU3-BLSR2-MW21-6	CDE-OU3-BLSR2-MW21-7	CDE-OU3-BLSR2-MW21-8	CDE-OU3-BLSR2-MW22-1	CDE-OU3-BLSR2-MW22-2	CDE-OU3-BLSR2-MW22-3	CDE-OU3-BLSR2-MW22-4	CDE-OU3-BLSR2-MW23-1
LOCATION (WELL ID)		MW-21-5	MW-21-6	MW-21-7	MW-21-8	MW-22-1	MW-22-2	MW-22-3	MW-22-4	MW-23-1
DEPTH (FT)		260-270	428-438	485-495	505-515	45-55	125-135	210-220	305-315	60-70
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/17/2017	7/17/2017	7/17/2017	7/17/2017	7/27/2017
Aluminum	50	140	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Arsenic	3	2.9	2.3	2.6	2.3	1.4	2.2	5.8	11	1 U
Barium	2,000	14	7.9	9.6	8.3	150	180	200	110	210
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	130000	430000	470000	400000	57000	68000	58000	34000	83000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1 U	4	19	7.3	1.1	1 U	1 U	1 U	2.9
Iron	300	150	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Lead	5	7.9	2	5.2	1.6	1 U	1 U	1 U	2.3	1.1
Magnesium	N/A	34000	90000	96000	93000	9600	24000	29000	18000	28000
Manganese	50	3.2	470	320	250	1 U	1.4	1.1	13	3.5
Nickel	N/A	1 U	1 U	1.5	2.8	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1700	3000	3000	2700	920	1300	1600	1200	1600
Selenium	N/A	2 U	2 U	2 U	2 U	2.1	2 U	2 U	2 U	2 U
Sodium	N/A	32000	73000	73000	66000	17000	12000	14000	12000	15000
Vanadium	N/A	10	8.7	5.5	5.8	3.7	9	15	12	6.8
Zinc	N/A	20	20	71	22	8.3	2.8	2 U	7.2	16

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW23-2	CDE-OU3-BLSR2-MW23-3	CDE-OU3-BLSR2-MW23-4	CDE-OU3-BLSR2-MW23-5	CDE-OU3-BLSR2-MW23-6	CDE-OU3-BLSR2-MW23-7	CDE-OU3-BLSR2-MW23-8	CDE-OU3-BLSR2-DUP-07	CDE-OU3-BLSR2-MW23-9
LOCATION (WELL ID)		**MW-23-2**	**MW-23-3**	**MW-23-4**	**MW-23-5**	**MW-23-6**	**MW-23-7**	**MW-23-8**	**MW-23-8**	**MW-23-9**
DEPTH (FT)		**120-130**	**170-180**	**226-236**	**258-268**	**316-326**	**350-360**	**406-416**	**406-416**	**444-454**
MATRIX		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
UNITS		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
SAMPLE DATE		**7/27/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**	**7/27/2017**
Aluminum	50	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Arsenic	3	1	1.4	2.3	3.3	3.9	4.2	2.4	2.3	2.8
Barium	2,000	140	160	170	83	63	59	27	27	7
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	70000	74000	68000	58000	46000	51000	99000	120000	250000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.6
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1.5	1.1	1.7	1.7	1 U	4.2	1 U	1 U	1 U
Iron	300	20 U	20 U	20 U	20 U	20 U	20 U	30	48	37
Lead	5	1.4	1.4	1.2	2.6	1.2	1.5	1 U	1 U	1 U
Magnesium	N/A	22000	24000	31000	31000	23000	27000	39000	45000	76000
Manganese	50	2.8	1.7	1 U	1 U	11	1 U	52	56	15
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1300	1500	1600	1500	1300	1300	1500	1700	2800
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	16000	17000	13000	14000	14000	14000	30000	37000	56000
Vanadium	N/A	7.3	7.6	11	16	15	18	10	9.4	14
Zinc	N/A	24	22	19	39	22	25 L	29	19	3.5

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW24-1	CDE-OU3-BLSR2-MW24-2	CDE-OU3-BLSR2-MW24-3	CDE-OU3-BLSR2-MW24-4	CDE-OU3-BLSR2-MW24-5	CDE-OU3-BLSR2-MW24-6	CDE-OU3-BLSR2-DUP-08	CDE-OU3-BLSR2-MW25-1	CDE-OU3-BLSR2-MW25-2
LOCATION (WELL ID)		MW-24-1	MW-24-2	MW-24-3	MW-24-4	MW-24-5	MW-24-6	MW-24-6	MW-25-1	MW-25-2
DEPTH (FT)		85-95	135-145	240-250	332-342	370-380	455-465	455-465	85-95	175-185
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	8/3/2017	8/3/2017
Aluminum	50	27	16 U	24	21	16 U	16 U	16 U	27	21
Arsenic	3	1.7	2	3.3	2.9	3.4	3.1	2.6	1.1	2.4
Barium	2,000	83	96	23	14	18	13	11	150	420
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	51000	80000	65000	75000	61000	110000	96000	62000	47000
Chromium	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.4	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	2.1	1 U	1 U	1 U	1 U	1 U	1 U	1.2	1 U
Iron	300	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Lead	5	9.2	1 U	1.6	2.1	1.3	1.5	2.2	1.2	1.2
Magnesium	N/A	24000	27000	34000	40000	31000	50000	43000	13000	22000
Manganese	50	58	26	52	25	1.5	65	62	1 U	4
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	2200	1800	1700	1600	1500	1800	1600	1400	1500
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	14000	30000	19000	27000	26000	41000	33000	14000	9200
Vanadium	N/A	12	10	16	14	16	16	13	7.6	12
Zinc	N/A	38	3.4	15	17	14	6.8	15	35	28

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW25-3	CDE-OU3-BLSR2-MW25-4	CDE-OU3-BLSR2-MW25-5	CDE-OU3-BLSR2-MW25-6	CDE-OU3-BLSR2-MW26-1	CDE-OU3-BLSR2-MW26-2	CDE-OU3-BLSR2-MW26-3	CDE-OU3-BLSR2-MW26-4	CDE-OU3-BLSR2-MW26-5
LOCATION (WELL ID)		MW-25-3	MW-25-4	MW-25-5	MW-25-6	MW-26-1	MW-26-2	MW-26-3	MW-26-4	MW-26-5
DEPTH (FT)		200-210	275-285	345-355	435-445	95-105	175-185	255-265	305-320	385-395
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/3/2017	8/3/2017	8/3/2017	8/3/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
Aluminum	50	22	22	22	240	28	20	17	19	18
Arsenic	3	2.5	2.5	3.7	5.3	1.8	7.8	6.8	5.7	6.2
Barium	2,000	190	310	82	97	250	150	110	68	28
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	58000	66000	42000	37000	66000	57000	44000	40000	60000
Chromium	70	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1.1	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iron	300	20 U	20 U	24	230	23	34	20 U	20 U	20 U
Lead	5	1.2	1 U	1 U	1.4	2.5	1 U	3	2.6	1.2
Magnesium	N/A	23000	26000	21000	19000	11000	17000	14000	15000	22000
Manganese	50	1 U	4.7	4.7	9.9	1 U	170	23	29	12
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1.5	1 U	1 U	1 U
Potassium	N/A	1400	1500	1500	1400	1300	1700	1500	1900	1600
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	12000	11000	13000	16000	10000	11000	9500	12000	18000
Vanadium	N/A	12	10	19	22	9.1	7.7	20	17	18
Zinc	N/A	14	29	12	10	19	4.3	9.2	7	6.8

TABLE 4-3b
ANALYTICAL RESULTS FOR GROUNDWATER - ROUND 2
METALS
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	Preliminary Remediation Goal (ug/L)	CDE-OU3-BLSR2-MW26-6	CDE-OU3-BLSR2-MW27-1	CDE-OU3-BLSR2-MW27-2	CDE-OU3-BLSR2-MW27-3	CDE-OU3-BLSR2-MW27-4	CDE-OU3-BLSR2-MW27-5
LOCATION (WELL ID)		MW-26-6	MW-27-1	MW-27-2	MW-27-3	MW-27-4	MW-27-5
DEPTH (FT)		455-465	85-95	180-190	225-235	370-380	460-470
MATRIX		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
UNITS		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SAMPLE DATE		8/2/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Aluminum	50	32	18	16 U	16 U	16 U	25
Arsenic	3	6.4	1.9	3	6.1	7	5.2
Barium	2,000	21	240	260	270	33	34
Cadmium	4	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	N/A	66000	64000	67000	38000	55000	55000
Chromium	70	1 U	1 U	1 U	1 U	1	1 U
Cobalt	N/A	1 U	1 U	1 U	1 U	1 U	1 U
Copper	N/A	1.5	1 U	2.3	1 U	1 U	1.3
Iron	300	20 U	39	20 U	20 U	20 U	20 U
Lead	5	1.5	1.7	1 U	1.9	1 U	1.6
Magnesium	N/A	26000	14000	18000	14000	22000	21000
Manganese	50	2.8	62	41	59	52	25
Nickel	N/A	1 U	1 U	1 U	1 U	1 U	1 U
Potassium	N/A	1400	2100	2000	1700	1500	1500
Selenium	N/A	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	N/A	21000	13000	11000	8700	14000	19000
Vanadium	N/A	18	9	11	19	20	19
Zinc	N/A	17	8.9	6.8	5	13	19

Notes:
N/A = Not Applicable; no preliminary remediation goal identified.
The Preliminary Remediation Goal shown is the lowest of the Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs) (40 CFR 141),
the New Jersey Drinking Water Quality Act MCLs (NJAC 7:10-16), and the New Jersey Groundwater Quality Criteria (NJAC 7:9-6).
Shading indicates exceedance of Potential Clean up Standard.

Table 4-4a
Toxicity Equivalent (TEQ) – Round 1
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Sample Name	Sample Location	Sample Date	Toxic Equivalence (PCB Congener)[1] pg/L	Toxic Equivalence (Dioxin/Furan)[1] pg/L	Total Toxic Equivalence[2] pg/L	ROD Criteria pg/L
CDE-OU3-BLSR1-MW01A-SH	MW-01A	12/20/2016	19.4	3.91	23.3	10
CDE-OU3-BLSR1-MW11-SH	MW-11	12/20/2016	469	36.63	506	10
CDE-OU3-BLSR1-MW12-SH	MW-12	12/20/2016	153	7.15	160	10
CDE-OU3-BLSR1-ERT4-4	ERT-4-4	1/17/2017	0.49	0.00	0.49	10
CDE-OU3-BLSR1-MW14D-1-RS	MW-14D-1	1/4/2017	2778	112	2890	10
CDE-OU3-BLSR1-MW14D-2-RS	MW-14D-2	1/4/2017	6842	277	7119	10
CDE-OU3-BLSR1-DUP-02-RS	MW-14D-2	1/4/2017	3445	127	3571	10
CDE-OU3-BLSR1-MW14D-3-RS	MW-14D-3	1/4/2017	63.00	0.00	63.00	10
CDE-OU3-BLSR1-MW14S-2-RS	MW-14S-2	1/4/2017	2412	179	2591	10
CDE-OU3-BLSR1-MW14S-3-RS	MW-14S-3	1/4/2017	202	11.2	213	10
CDE-OU3-BLSR1-MW-16-7-RS	MW-16-7	1/4/2017	0.05	0	0.05	10

Notes:
[1] TEQ calculations were done using the Toxicity Equivalency Factors (TEFs) from:
Van den Berg et al. (2006); WHO's website on dioxin TEFs, available at: http://www.who.int/ipcs/assessment/tef_update/en/
[2] Total TEQ is equal to the PCB TEQ plus the Dioxin/Furan TEQ

Table 4-4b
Toxicity Equivalent (TEQ) – Round 2
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

Sample Name	Sample Location	Sample Date	Toxic Equivalence (PCB Congener)[1] pg/L	Toxic Equivalence (Dioxin/Furan)[1] pg/L	Total Toxic Equivalence[2] pg/L	ROD Criteria pg/L
CDE-OU3-BLSR2-MW01A-SH	MW-01A	7/11/2017	3	0.03	3	10
CDE-OU3-BLSR2-MW11-SH	MW-11	7/11/2017	193	23.04	216	10
CDE-OU3-BLSR2-DUP-01	MW-11	7/11/2017	223	30	252	10
CDE-OU3-BLSR2-MW12-SH	MW-12	7/11/2017	105	6	111	10
CDE-OU3-BLSR2-ERT4-4	ERT-4-4	7/19/2017	0.0	0.28	0.3	10
CDE-OU3-BLSR2-MW14D-1	MW-14D-1	7/25/2017	69	1	69	10
CDE-OU3-BLSR2-MW14D-2	MW-14D-2	7/25/2017	116.06	3.96	120.01	10
CDE-OU3-BLSR2-DUP-06	MW-14D-2	7/25/2017	54.04	2.09	56.13	10
CDE-OU3-BLSR2-MW14D-3	MW-14D-3	7/25/2017	91	2	93	10
CDE-OU3-BLSR2-MW14S-1	MW-14S-1	7/25/2017	449	129.3	578	10
CDE-OU3-BLSR2-MW14S-2	MW-14S-2	7/25/2017	141.06	33.66	174.72	10
CDE-OU3-BLSR2-MW14S-3	MW-14S-3	7/25/2017	47.53	8.84	56.37	10
CDE-OU3-BLSR2-MW16-7	MW-16-7	7/19/2017	0.01	0	0.01	10

Notes:
[1] TEQ calculations were done using the Toxicity Equivalency Factors (TEFs) from:
Van den Berg et al. (2006); WHO's website on dioxin TEFs, available at: http://www.who.int/ipcs/assessment/tef_update/en/
[2] Total TEQ is equal to the PCB TEQ plus the Dioxin/Furan TEQ

TABLE 4-5
ANALYTICAL RESULTS FOR NON-AQUEOUS PHASE LIQUID
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	CDE-OU3-BLSR1-MW14S-4-DNAPL		CDE-OU3-BLSR2-MW14S-4-DNAPL-RS
LOCATION (WELL ID)	MW-14S-4		MW-14S-4
DEPTH (FT)	65-70		65-70
MATRIX	DNAPL		DNAPL
UNITS	ug/L	ug/kg	ug/kg
SAMPLE DATE	12/27/2016		8/11/2017
Volatile Organic Compounds			
1,1,1-Trichloroethane	U	NA	U
1,1,2,2-Tetrachloroethane	U	NA	U
1,1,2-Trichloroethane	U	NA	U
1,1-Dichloroethane	U	NA	U
1,1-Dichloroethene	7,070 J	NA	58.4
1,2,3-trichlorobenzene	240,000	NA	57.7 J
1,2,4-Trichlorobenzene	872,000	NA	241 J
1,2-Dibromo-3-chloropropane	U	NA	U
1,2-Dibromoethane	U	NA	U
1,2-Dichlorobenzene	17,700	NA	U
1,2-Dichloroethane	U	NA	U
1,2-Dichloropropane	U	NA	U
1,3-Dichlorobenzene	37,200	NA	20.6 J
1,4-Dichlorobenzene	55,900	NA	36.4 J
2-Butanone (MEK)	U	NA	U
2-Hexanone	U	NA	U
4-Methyl-2-pentanone(MIBK)	U	NA	U
Acetone	U	NA	U
Benzene	U	NA	U
Bromochloromethane	U	NA	U
Bromodichloromethane	U	NA	U
Bromoform	U	NA	U
Bromomethane	U	NA	U
Carbon disulfide	U	NA	U
Carbon tetrachloride	U	NA	U
Chlorobenzene	2,530 J	NA	U
Chloroethane	U	NA	U
Chloroform	U	NA	U
Chloromethane	U	NA	U
cis-1,2-Dichloroethene	2,920,000	NA	38,100
cis-1,3-Dichloropropene	U	NA	U
Cyclohexane	5,650 J	NA	U
Dibromochloromethane	U	NA	U
Dichlorodifluoromethane	U	NA	U
Ethylbenzene	9,320 J	NA	U
Freon-113	U	NA	U
Isopropylbenzene	4,940 J	NA	U
m,p-Xylene	5,710 J	NA	U
Methyl acetate	U	NA	U
Methyl tert butyl ether	U	NA	U
Methylcyclohexane	111,000	NA	U
Methylene chloride	U	NA	U
o-Xylene	18,600	NA	17.3 J
Styrene	U	NA	U
Tetrachloroethene	7,300 J	NA	U
Toluene	1,460 J	NA	U
trans-1,2-dichloroethene	10,800	NA	145
trans-1,3-Dichloropropene	U	NA	U
Trichloroethene	1,480,000	NA	4,380
Trichlorofluoromethane	U	NA	U
Vinyl chloride	U	NA	45.7 J

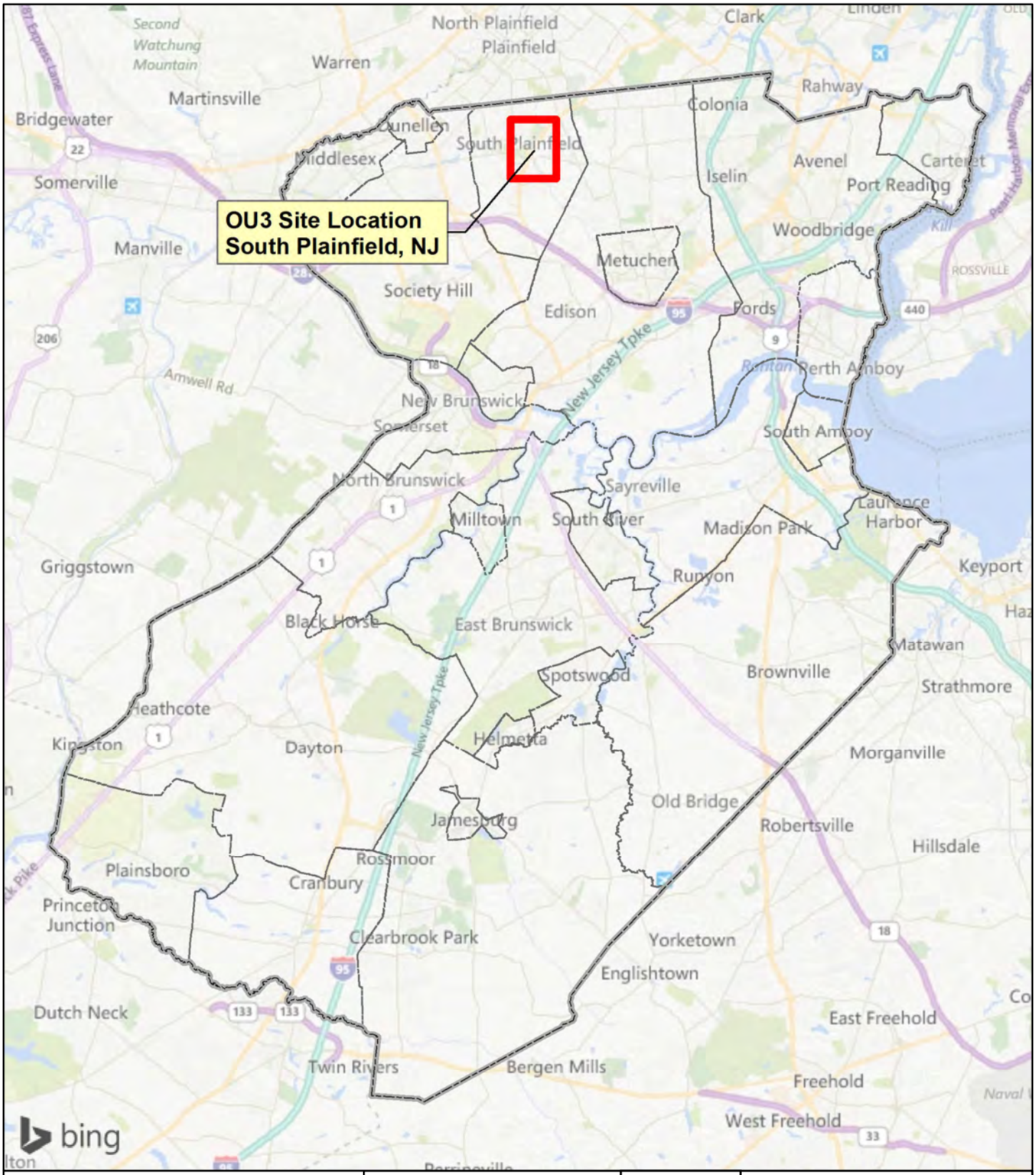
TABLE 4-5
ANALYTICAL RESULTS FOR NON-AQUEOUS PHASE LIQUID
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	CDE-OU3-BLSR1-MW14S-4-DNAPL		CDE-OU3-BLSR2-MW14S-4-DNAPL-RS
LOCATION (WELL ID)	MW-14S-4		MW-14S-4
DEPTH (FT)	65-70		65-70
MATRIX	DNAPL		DNAPL
UNITS	ug/L	ug/kg	ug/kg
SAMPLE DATE	12/27/2016		8/11/2017
Semi-Volatile Organic Compounds			
1,1'-Biphenyl	NA	108,000	U
1,2,4,5-Tetrachlorobenzene	NA	32,200	U
1,4-Dioxane	NA	U	U
2,3,4,6-Tetrachlorophenol	NA	U	U
2,4,5-Trichlorophenol	NA	U	U
2,4,6-Trichlorophenol	NA	U	U
2,4-Dichlorophenol	NA	U	U
2,4-Dimethylphenol	NA	U	U
2,4-Dinitrophenol	NA	U	U
2,4-Dinitrotoluene	NA	U	U
2,6-Dinitrotoluene	NA	U	U
2-Chloronaphthalene	NA	11,600 J	U
2-Chlorophenol	NA	U	U
2-Methylnaphthalene	NA	8,960 J	U
2-Methylphenol	NA	U	U
2-Nitroaniline	NA	U	U
2-Nitrophenol	NA	U	U
3&4-Methylphenol	NA	U	U
3,3'-Dichlorobenzidine	NA	U	U
3-Nitroaniline	NA	U	U
4,6-Dinitro-o-cresol	NA	U	U
4-Bromophenyl phenyl ether	NA	U	U
4-Chloro-3-methyl phenol	NA	U	U
4-Chloroaniline	NA	U	U
4-Chlorophenyl phenyl ether	NA	U	U
4-Nitroaniline	NA	U	U
4-Nitrophenol	NA	U	U
Acenaphthene	NA	U	U
Acenaphthylene	NA	U	U
Acetophenone	NA	U	U
Anthracene	NA	U	U
Atrazine	NA	U	U
Benzaldehyde	NA	U	U
Benzo(a)anthracene	NA	12,100	U
Benzo(a)pyrene	NA	4,790 J	U
Benzo(b)fluoranthene	NA	9,880 J	U
Benzo(g,h,i)perylene	NA	U	U
Benzo(k)fluoranthene	NA	U	U
bis(2-Chloroethoxy)methane	NA	U	U
bis(2-Chloroethyl)ether	NA	U	U
bis(2-Chloroisopropyl)ether	NA	U	U
bis(2-Ethylhexyl)phthalate	NA	U	U
Butyl benzyl phthalate	NA	U	U
Caprolactam	NA	U	U
Carbazole	NA	U	U
Chrysene	NA	5,410 J	U
Dibenzo(a,h)anthracene	NA	U	U
Dibenzofuran	NA	U	U

TABLE 4-5
ANALYTICAL RESULTS FOR NON-AQUEOUS PHASE LIQUID
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

SAMPLE NAME	CDE-OU3-BLSR1-MW14S-4-DNAPL		CDE-OU3-BLSR2-MW14S-4-DNAPL-RS
LOCATION (WELL ID)	MW-14S-4		MW-14S-4
DEPTH (FT)	65-70		65-70
MATRIX	DNAPL		DNAPL
UNITS	ug/L	ug/kg	ug/kg
SAMPLE DATE	12/27/2016		8/11/2017
Diethyl phthalate	NA	U	U
Dimethyl phthalate	NA	U	U
Di-n-butyl phthalate	NA	U	U
Di-n-octyl phthalate	NA	U	U
Fluoranthene	NA	U	U
Fluorene	NA	U	U
Hexachlorobenzene	NA	U	U
Hexachlorobutadiene	NA	U	U
Hexachlorocyclopentadiene	NA	U	U
Hexachloroethane	NA	U	U
Indeno(1,2,3-cd)pyrene	NA	U	U
Isophorone	NA	U	U
Naphthalene	NA	32,700	U
Nitrobenzene	NA	U	U
N-Nitroso-di-n-propylamine	NA	U	U
N-Nitrosodiphenylamine	NA	U	U
Pentachlorophenol	NA	U	U
Phenanthrene	NA	U	U
Phenol	NA	U	U
Pyrene	NA	U	U
Polychlorinated Biphenyls			
Aroclor-1016	NA	NA	U
Aroclor-1221	NA	NA	U
Aroclor-1232	NA	NA	U
Aroclor-1242	NA	NA	2,720
Aroclor-1248	NA	NA	U
Aroclor-1254	809,000,000 B	NA	5,670
Aroclor-1260	NA	NA	U
Aroclor-1262	NA	NA	U
Aroclor-1268	NA	NA	U

Figures



OU3 Site Location
Middlesex County
Municipality

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

N

Figure 1-1
OU3 Site Location

Louis Berger

0 2 4 Miles

Document Path: S:\Projects\4553023\OU3\map documents\Figure1-1-Site Location Map.mxd

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 3-1
Monitoring Well Locations

Louis Berger

0 500 1,000 Feet

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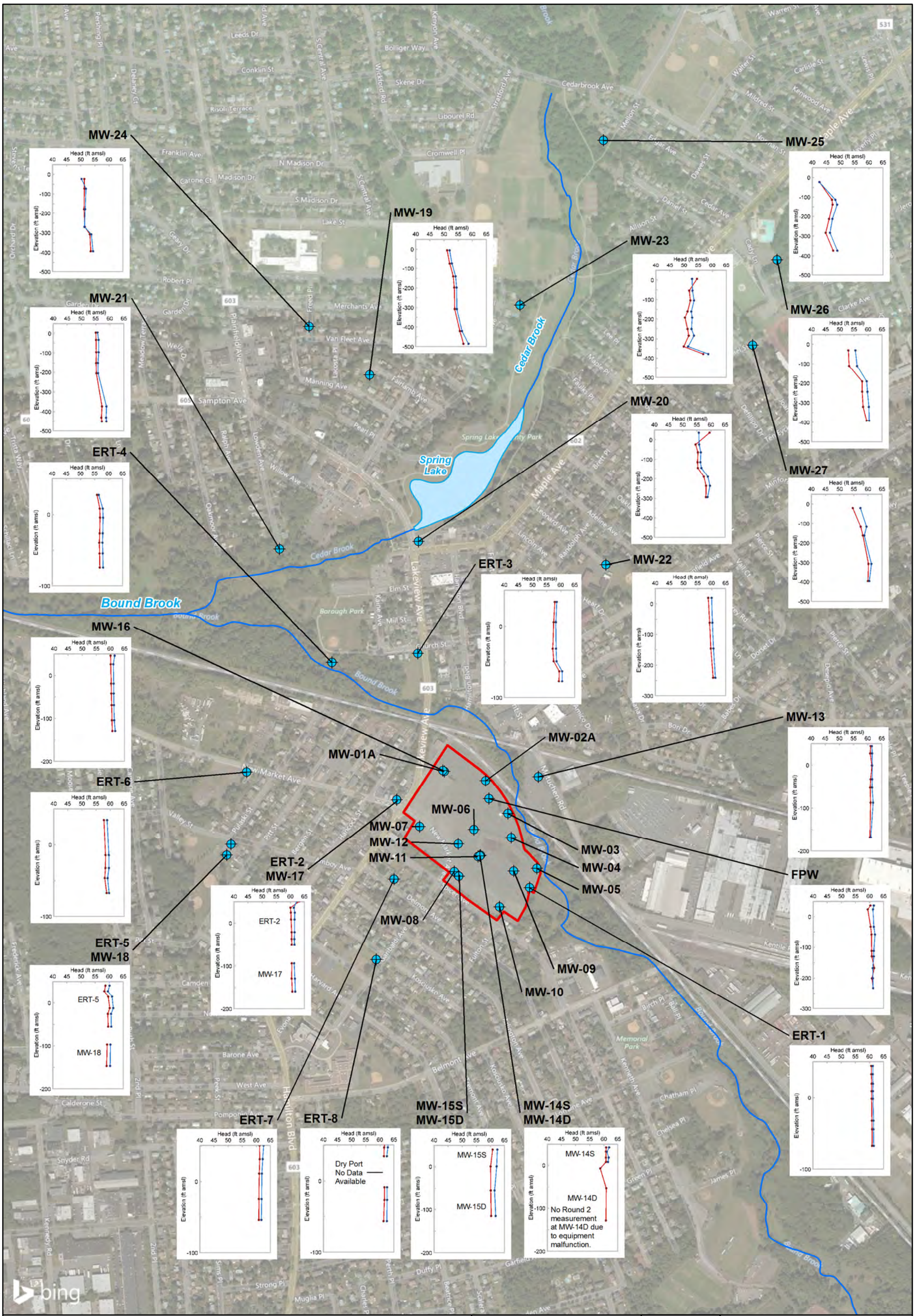

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
Baseline Sampling Round 1 (December 2016)
Baseline Sampling Round 2 (July 2017)

Profile Axes
X – Hydraulic Head (ft msl)
Y – Centre Elevation of Sampling Port (ft msl)

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 4-1
Vertical Head Profiles
Baseline Sampling

Louis Berger

0 500 1,000 Feet

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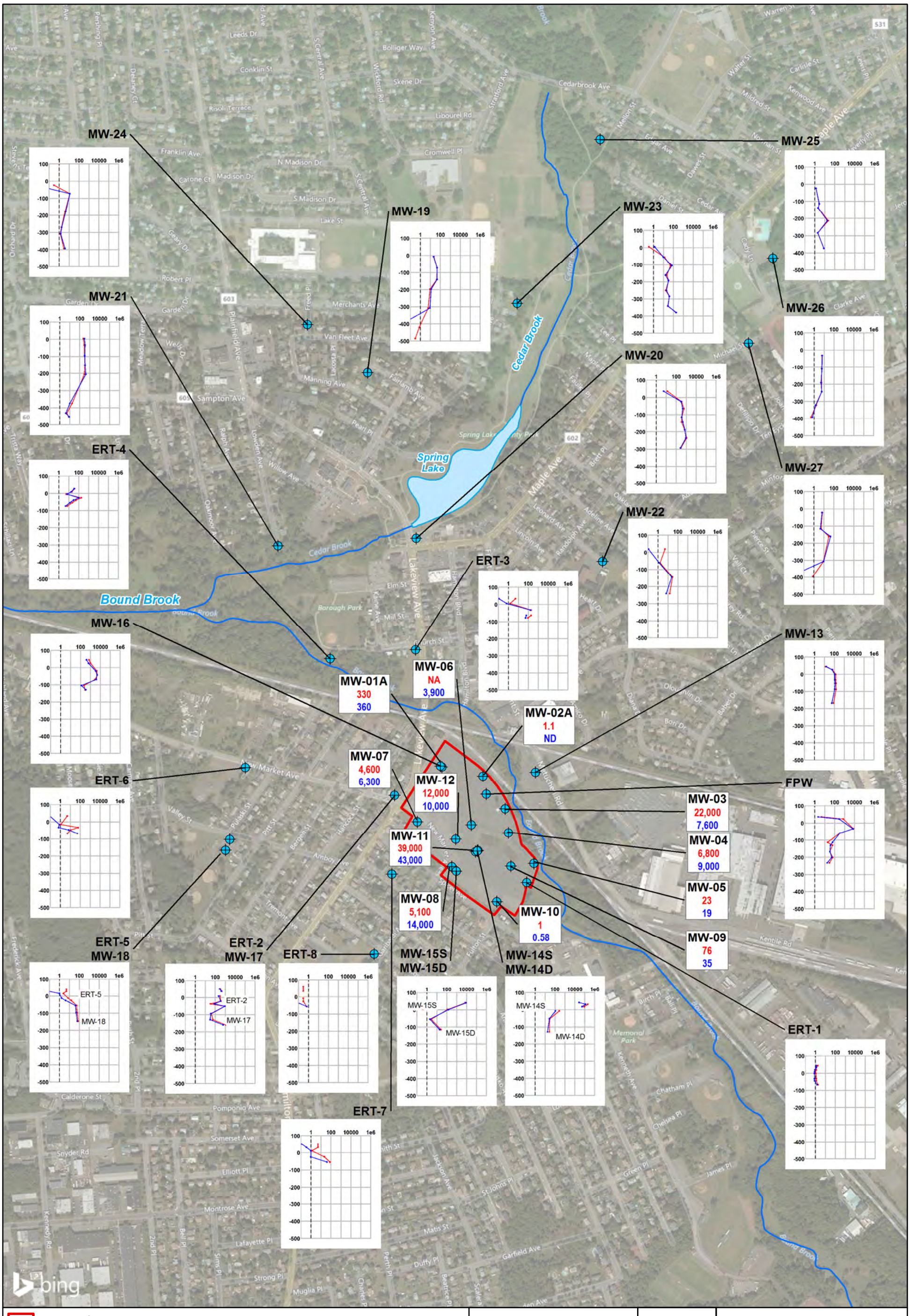
MW-24
MW-25
MW-19
MW-23
MW-26
MW-21
MW-20
MW-27
ERT-4
MW-22
ERT-3
MW-16
MW-13
MW-06
NA
3,900
MW-01A
330
360
MW-02A
1.1
ND
MW-07
4,600
6,300
MW-12
12,000
10,000
ERT-6
FPW
MW-03
22,000
7,600
MW-11
39,000
43,000
MW-04
6,800
9,000
MW-05
23
19
MW-08
5,100
14,000
MW-10
1
0.58
MW-09
76
35
ERT-5
MW-18
ERT-2
MW-17
ERT-8
MW-15S
MW-15D
MW-14S
MW-14D
ERT-1
ERT-7
Cedar Brook
Spring Lake
Bound Brook
Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
ROD Criteria (µg/L)
Baseline Sampling Round 1 (December 2016)
Baseline Sampling Round 2 (July 2017)
Profile Axes
X - TCE Concentration (µg/L)
Y – Centre Elevation of Sampling Port (ft msl)
N
Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey
Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983
December 2017
Figure 4-2
Vertical Profile
TCE in Groundwater
Louis Berger
0
500
1,000
Feet
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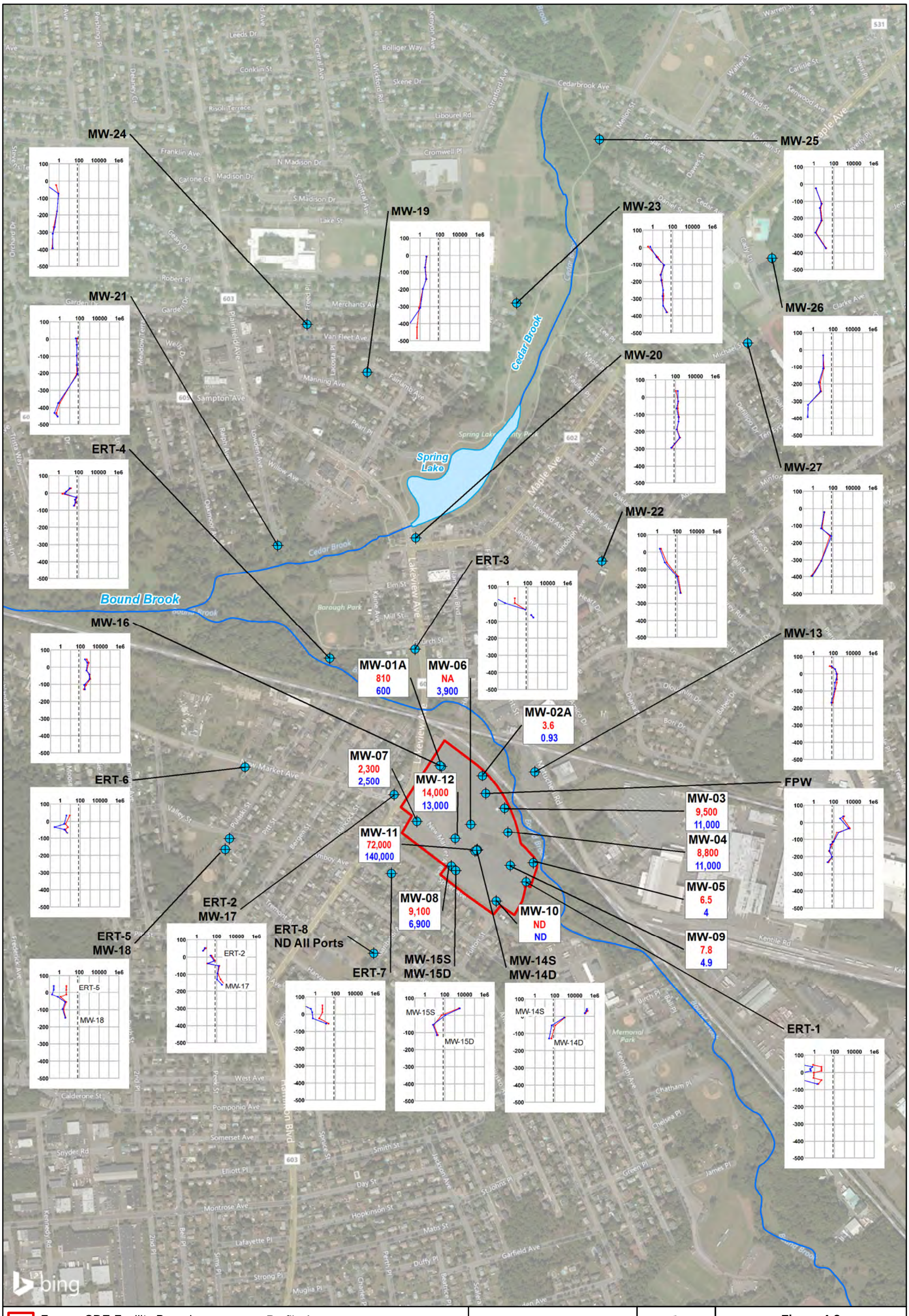
MW-24
MW-25
MW-19
MW-23
MW-26
MW-21
MW-20
MW-27
ERT-4
MW-22
ERT-3
MW-16
MW-13
MW-01A
810
600
MW-06
NA
3,900
MW-02A
3.6
0.93
MW-07
2,300
2,500
MW-12
14,000
13,000
ERT-6
FPW
MW-03
9,500
11,000
MW-11
72,000
140,000
MW-04
8,800
11,000
MW-05
6.5
4
MW-08
9,100
6,900
MW-10
ND
ND
ERT-2
MW-17
ERT-5
MW-18
ERT-8
ND All Points
MW-09
7.8
4.9
ERT-7
MW-15S
MW-15D
MW-14S
MW-14D
ERT-1
Cedar Brook
Spring Lake
Bound Brook
Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
ROD Criteria (µg/L)
Baseline Sampling Round 1 (December 2016)
Baseline Sampling Round 2 (July 2017)
Profile Axes
X – cis-1,2-Dichloroethene Concentration (µg/L)
Y – Centre Elevation of Sampling
N
Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey
Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983
December 2017
Figure 4-3
Vertical Profile
cis-1,2-Dichloroethene
in Groundwater
Louis Berger
0
500
1,000
Feet
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The Preliminary Remediation Goal for TEQ is 0.00001 µg/L.

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream

NS Not Sampled
Baseline Sampling Round 1 (µg/L) (December 2016)
Baseline Sampling Round 2 (µg/L) (July 2017)

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 4-4
TEQ in Groundwater

Louis Berger

0 200 400 Feet

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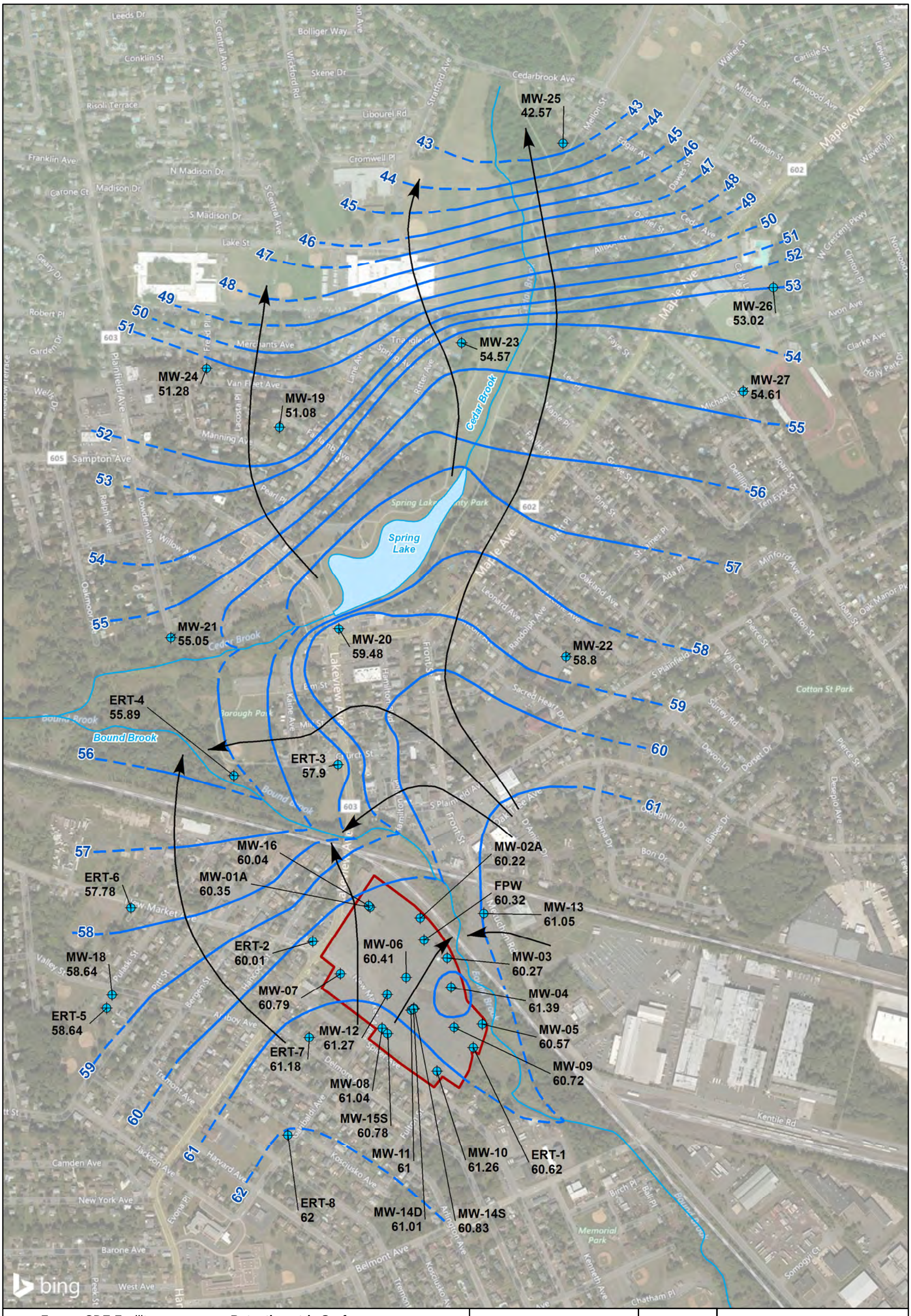

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream

Potentiometric Surface
Shallow Water-bearing Zone
(0' - 120' bgs)

Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-1A
Potentiometric Surface
Shallow Water-bearing Zone
December 2016

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-1A_-GW Surface_R1 Shallow Zone.mxd

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream

Potentiometric Surface
Intermediate Water-bearing Zone
(120' - 185' bgs)

Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-1B
Potentiometric Surface
Intermediate Water-bearing Zone
December 2016

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-1B_-GW Surface_R1 Intermediate Zone.mxd

Former CDE Facility Boundary

Waterbody

Monitoring Well

Stream

Potentiometric Surface Deep Water-bearing Zone (200' - 250' bgs)

Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-1C
Potentiometric Surface Deep Water-bearing Zone
December 2016

Louis Berger

0 500 1,000 Feet

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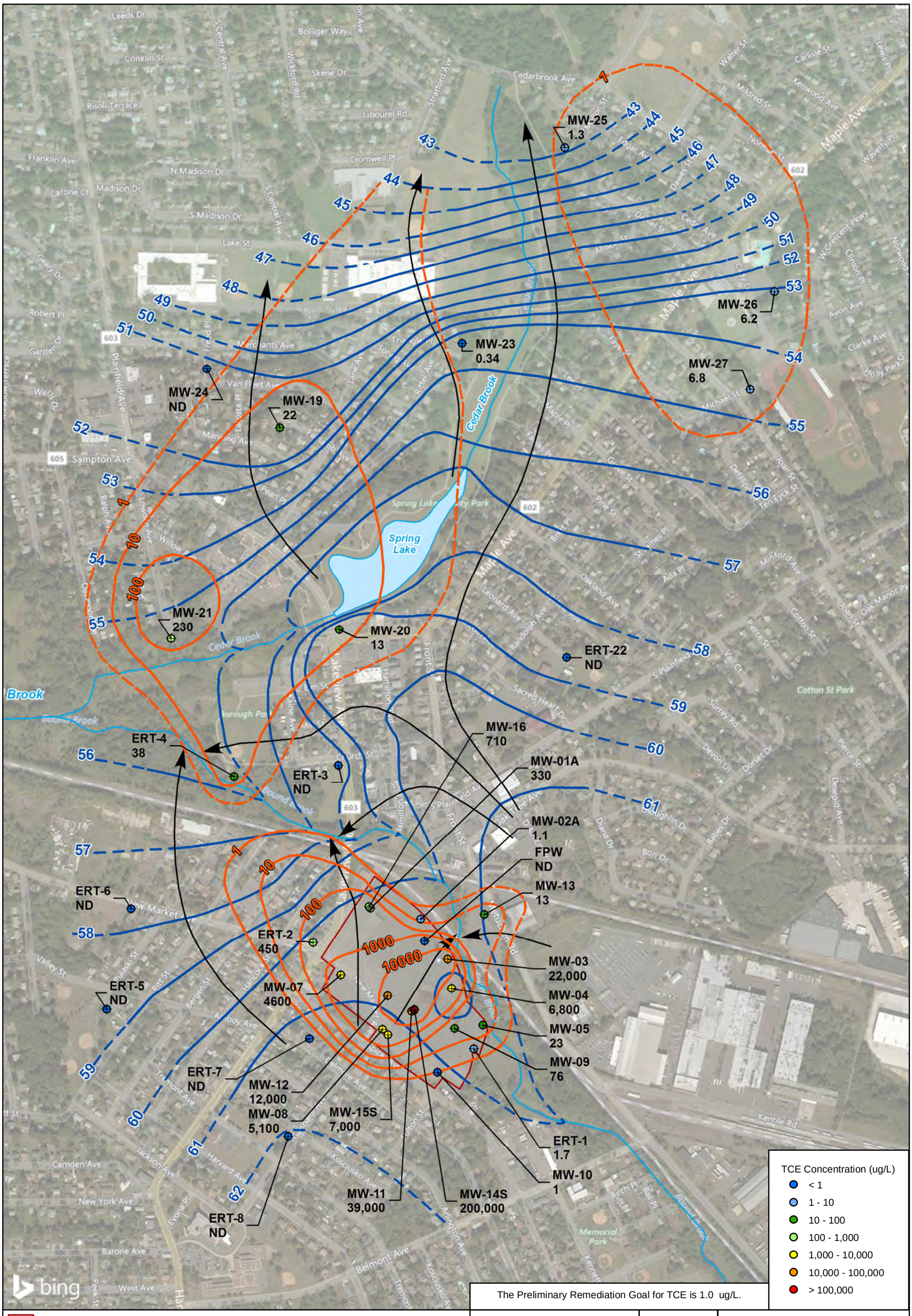


The Preliminary Remediation Goal for TCE is 1.0 ug/L.

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
Line of Equal TCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Shallow Water-bearing Zone (0' - 120' bgs)

Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)
Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

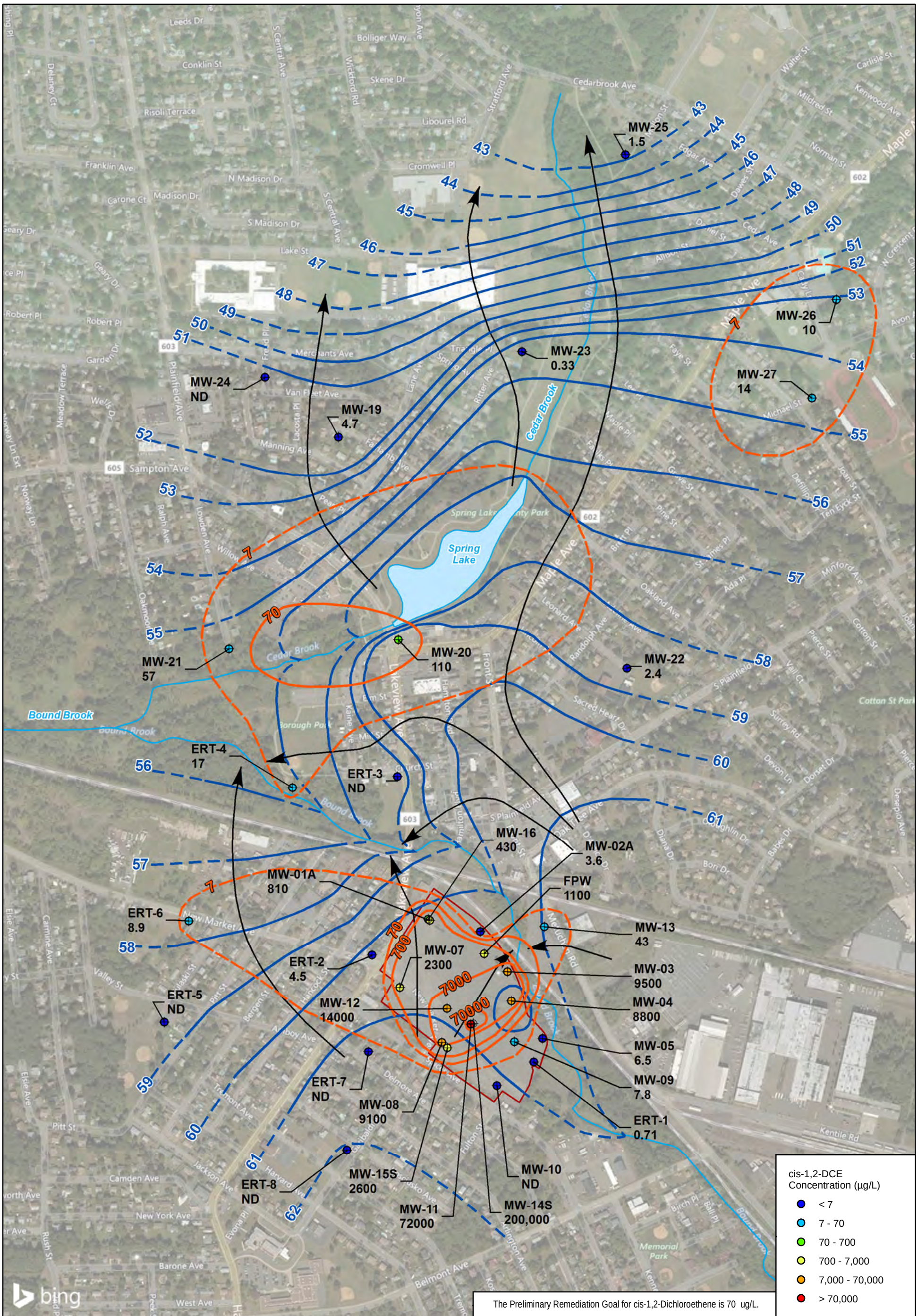
December 2017

Figure 5-2A
TCE Distribution
Shallow Water-bearing Zone
(0' - 120' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-2A-TCE_Shallow, Round 1_Concentrations.mxd



cis-1,2-DCE Concentration (µg/L)

- < 7
- 7 - 70
- 70 - 700
- 700 - 7,000
- 7,000 - 70,000
- > 70,000

The Preliminary Remediation Goal for cis-1,2-Dichloroethene is 70 ug/L.

- Former CDE Facility Boundary
- Waterbody
- Monitoring Well
- Stream
- Line of Equal cis-1,2-DCE Concentration (ug/L) (Dashed where inferred)

Potentiometric Surface Shallow Water-bearing Zone (0' - 120' bgs)

- Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)
- Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

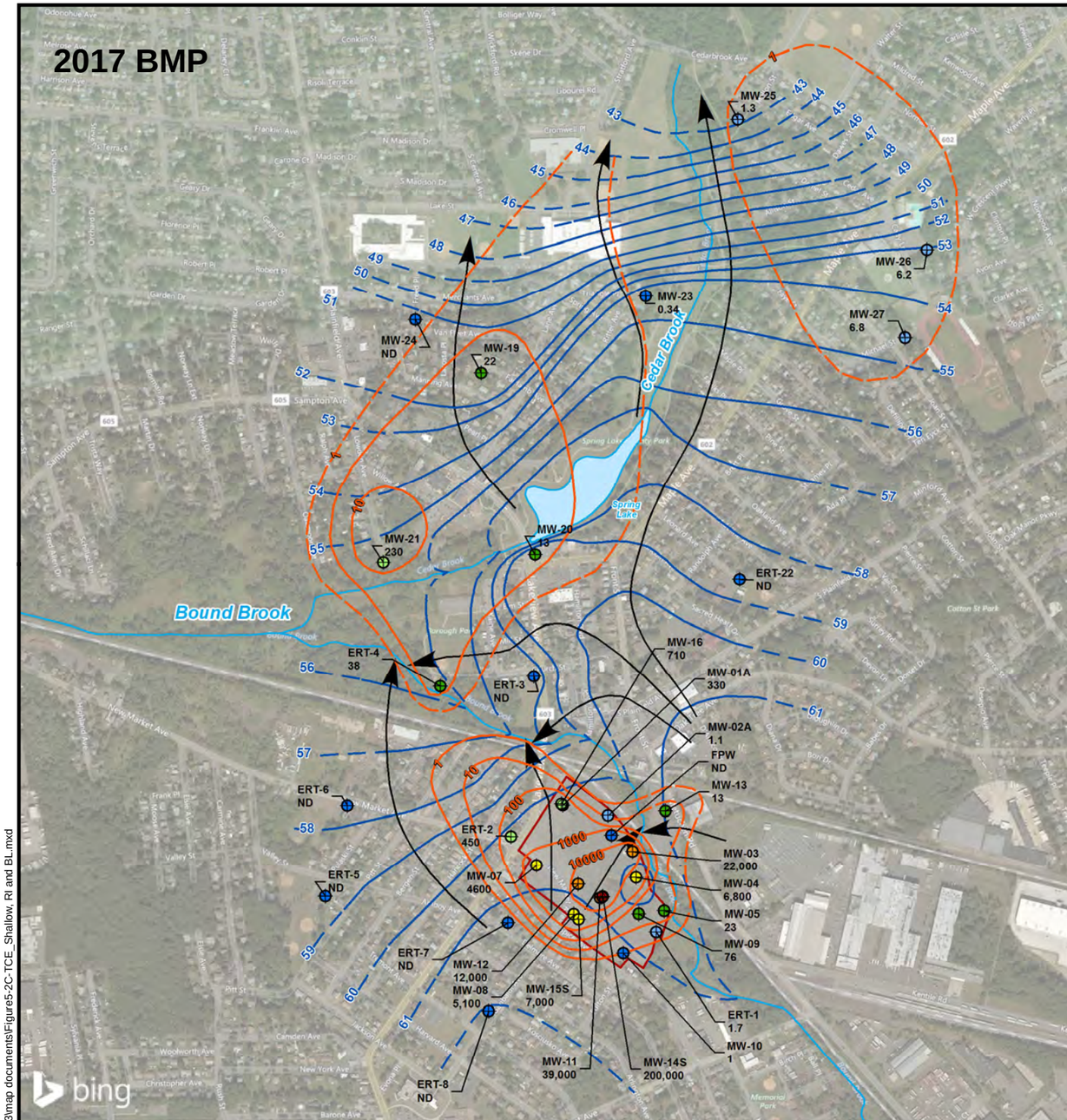
December 2017

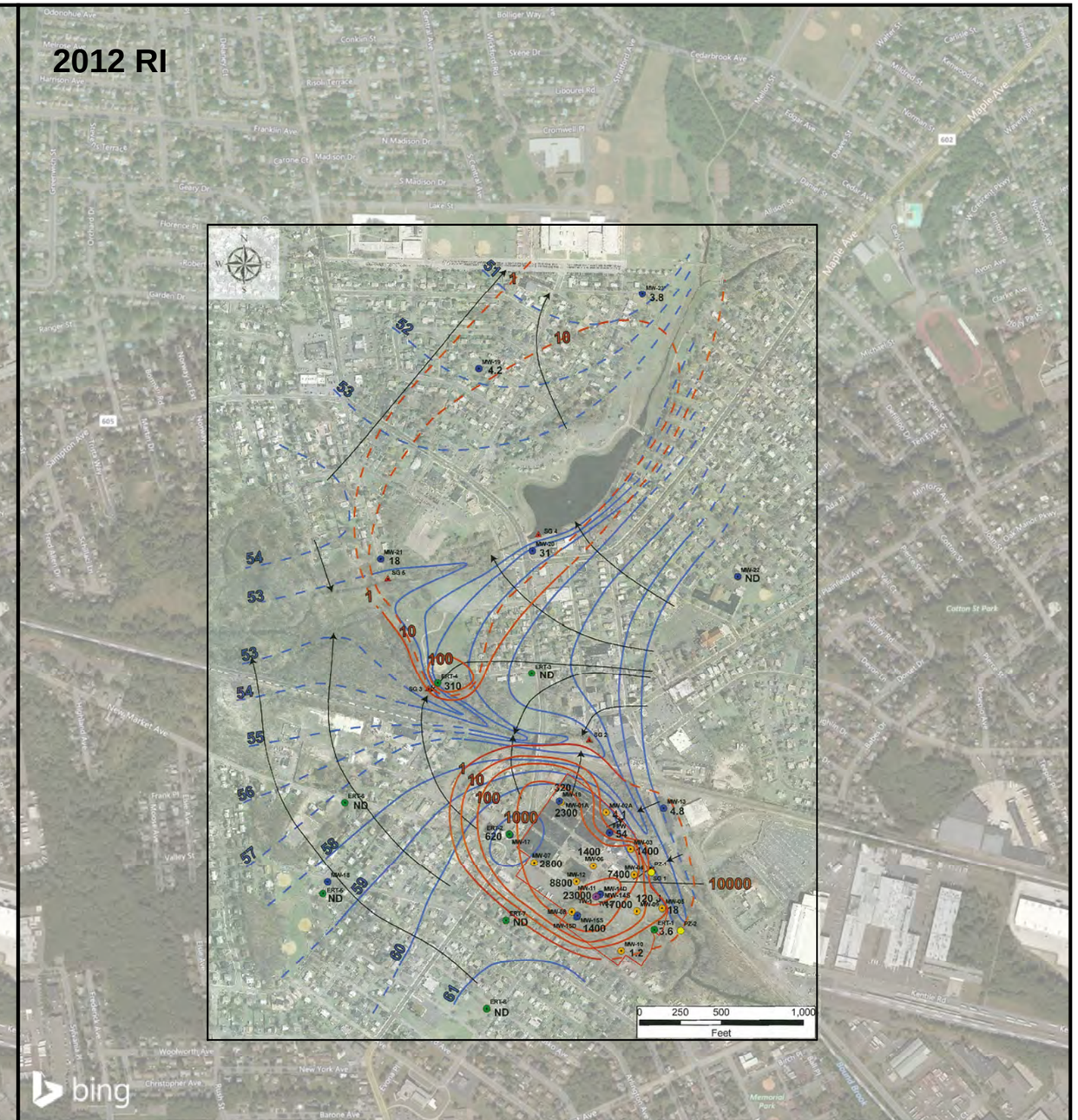
Figure 5-2B
cis-1,2-Dichloroethene Distribution
Shallow Water-bearing Zone (0' - 120' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-2B-DCE_Shallow, Round 1_Concentrations.mxd





Former CDE Facility Boundary

Waterbody

Monitoring Well

Stream

Line of Equal TCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Shallow Water-bearing Zone (0' - 120' bgs)

Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

TCE Concentration (ug/L)

- < 1
- 1 - 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000
- > 100,000

The Preliminary Remediation Goal for TCE is 1.0 ug/L.

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

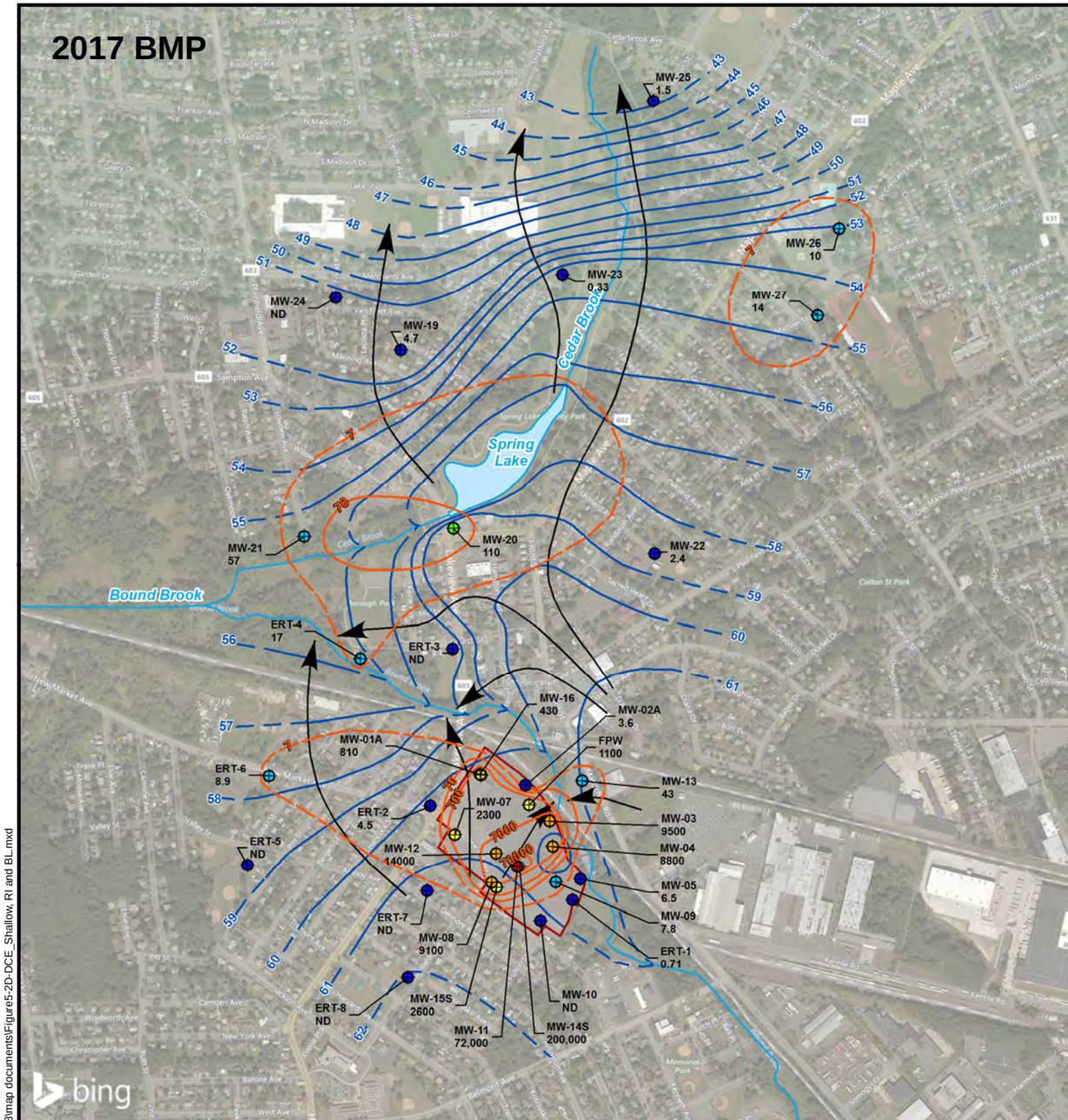
December 2017

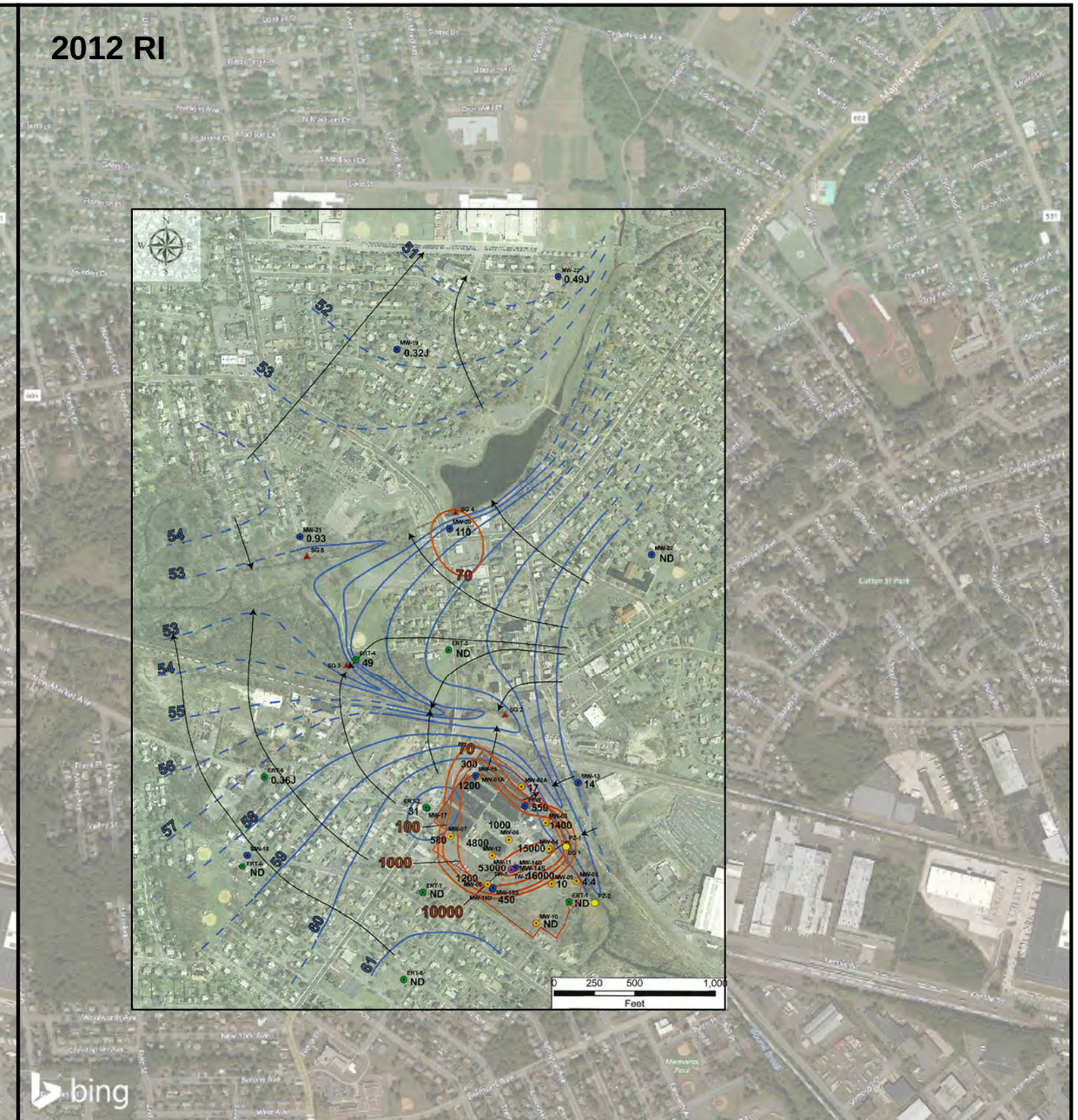
Figure 5-2C
BMP TCE and RI TCE Shallow Water-bearing Zone (0' - 120' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-2C-TCE_Shallow, RI and BL.mxd





Former CDE Facility Boundary

Waterbody

Monitoring Well

Stream

Line of Equal cis-1,2-DCE Concentration (ug/L) (Dashed where inferred)

Potentiometric Surface Shallow Water-bearing Zone (0' - 120' bgs)

Line of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

cis-1,2-DCE Concentration (µg/L)

- < 7
- 7 - 70
- 70 - 700
- 700 - 7,000
- 7,000 - 70,000
- > 70,000

The Preliminary Remediation Goal for cis-1,2-Dichloroethene is 70 ug/L.

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-2D
BMP cis-1,2-Dichloroethene and RI cis-1,2-Dichloroethene Shallow Water-bearing Zone (0' - 120' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\455\3023\OU3\map documents\Figure5-2D-DCE_Shallow, RI and BL.mxd

Potentiometric Surface
Intermediate Water-bearing Zone
(120' - 185' bgs)

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-3A
TCE Distribution
Intermediate Water-bearing Zone
(120 - 185')

Louis Berger

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-3A TCE_Intermediate, Round 1_Concentrations.mxd

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
Line of Equal cis-1,2-DCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface
Intermediate Water-bearing Zone
(120' - 185' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where iInferred)
Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

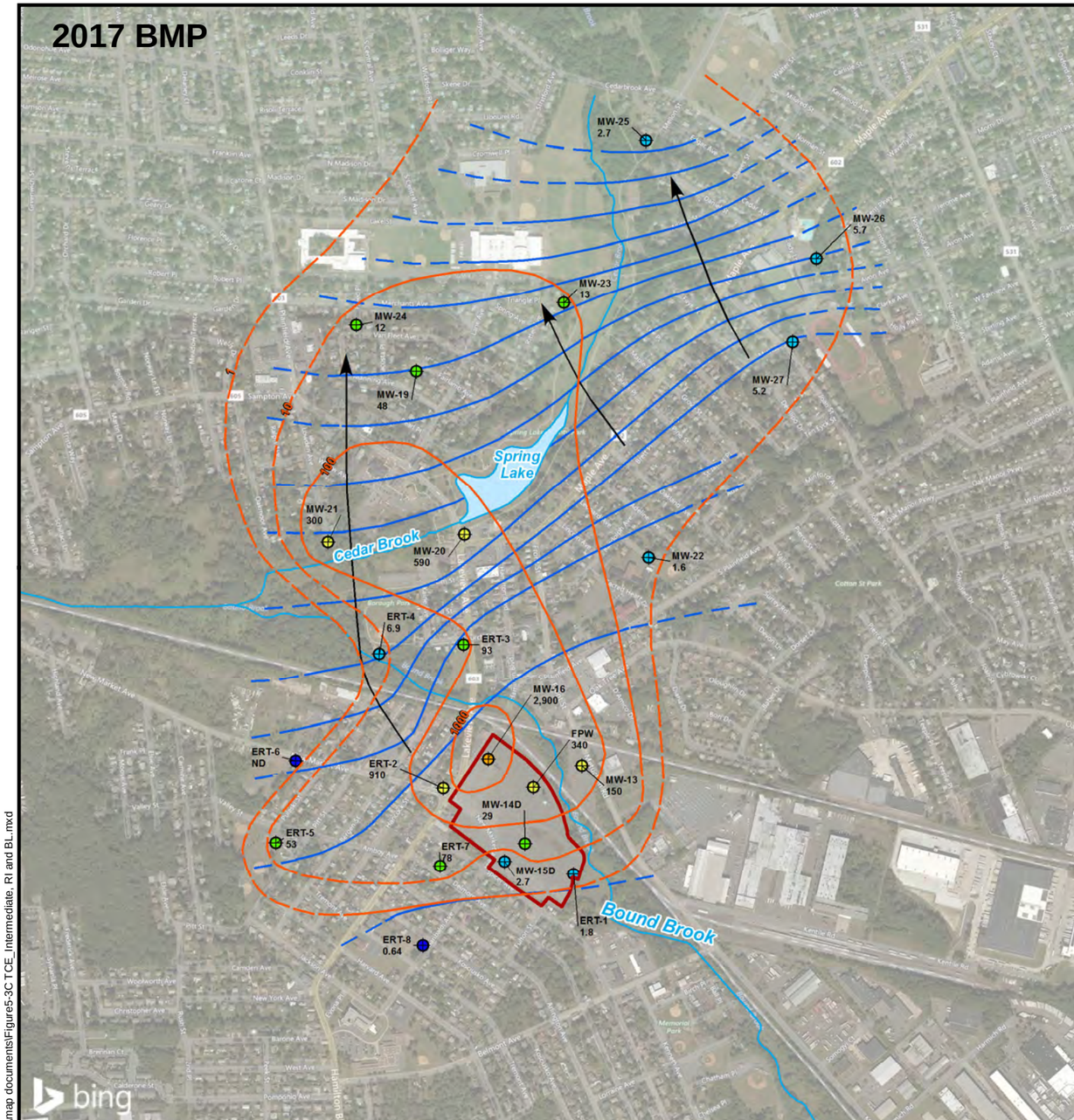
December 2017

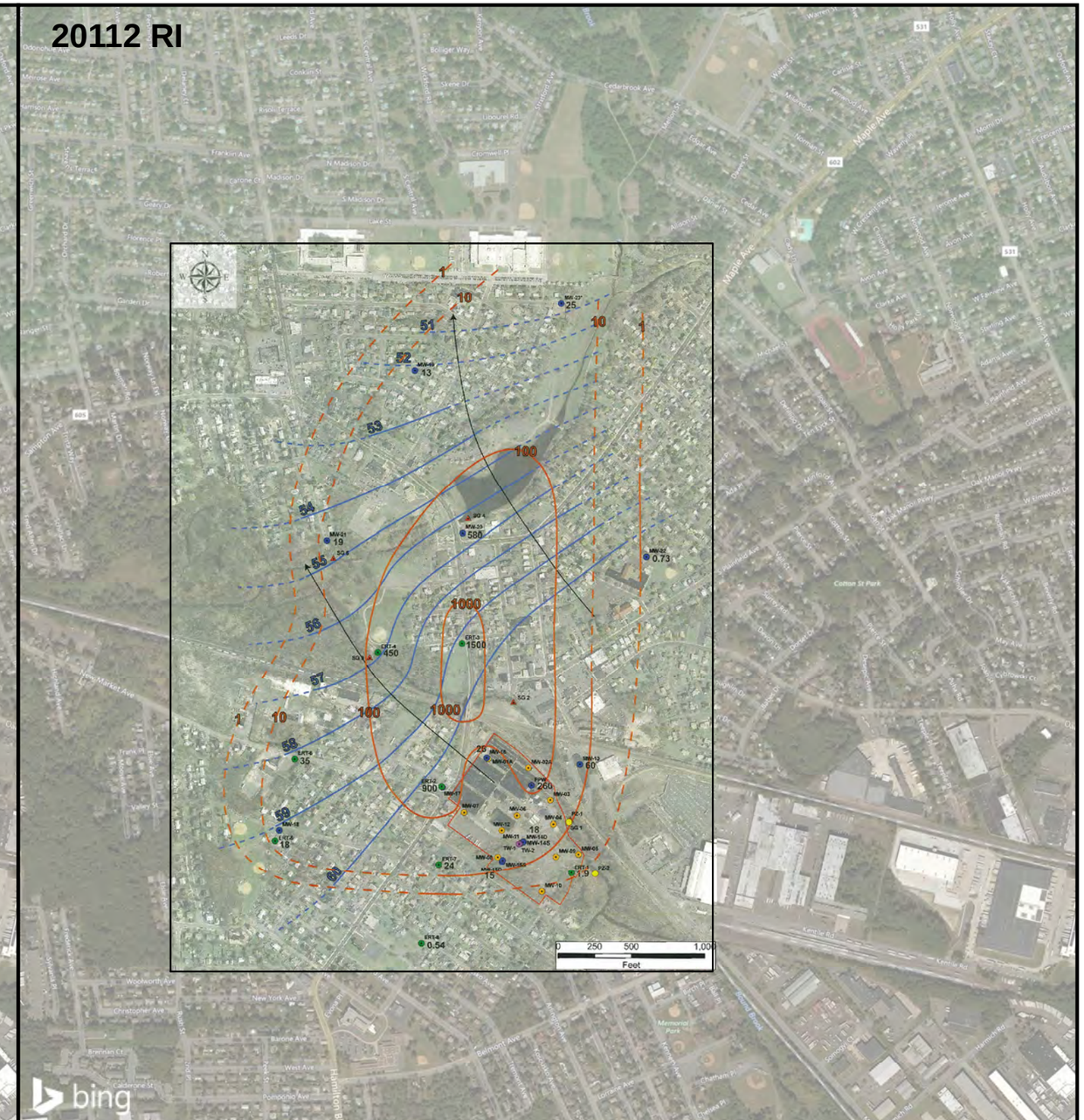
Figure 5-3B
cis-1,2-Dichloroethene Distribution
Intermediate Water-bearing Zone
(120 - 185')

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-3B DCE_Intermediate, Round 1_Concentrations.mxd





Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
Line of Equal TCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Intermediate Water-bearing Zone (120' - 185' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where iInferred)
Direction of Groundwater Movement

TCE Concentration (µg/L)
< 1
1 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000

The Preliminary Remediation Goal for TCE is 1.0 ug/L.

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

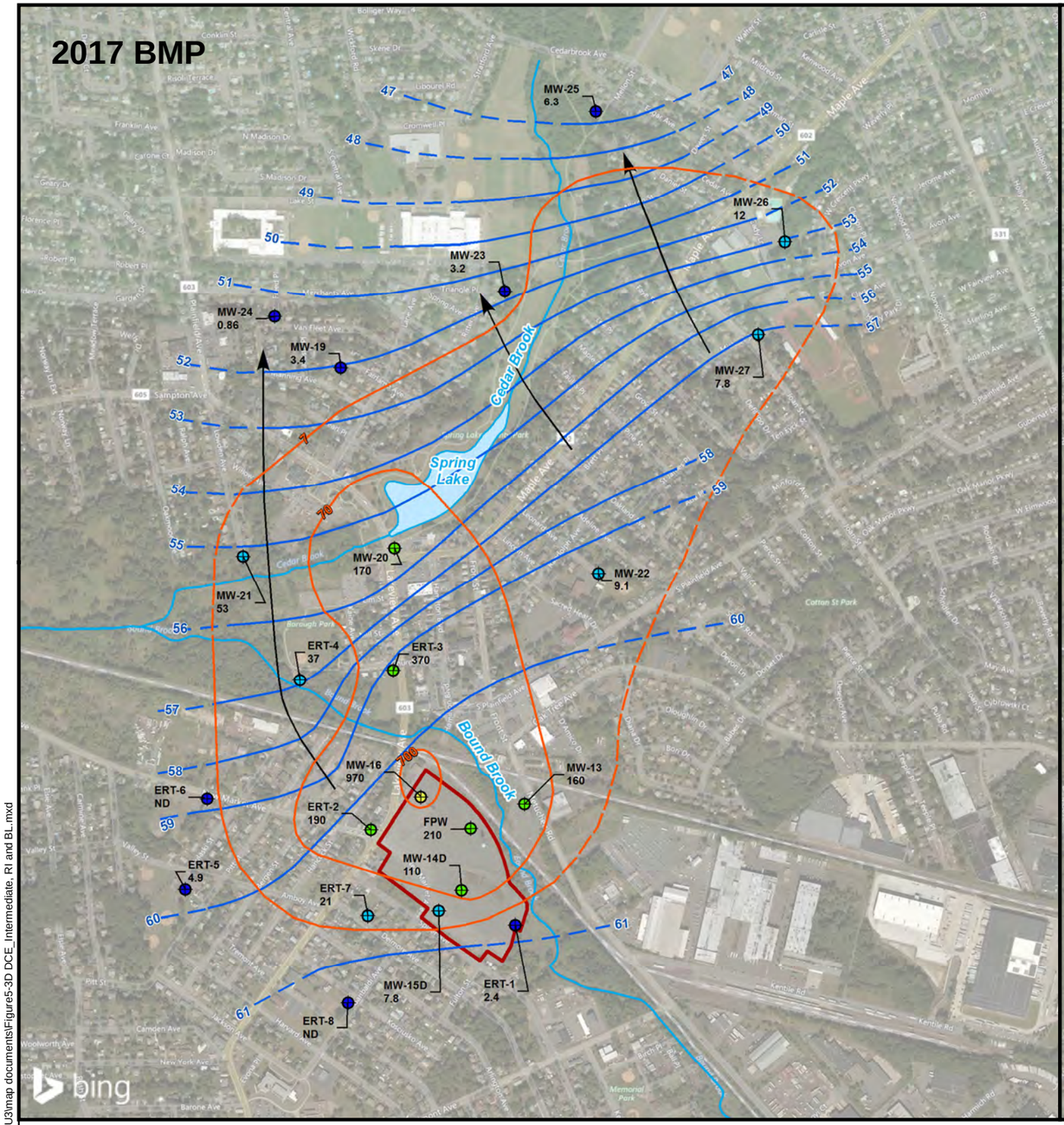
December 2017

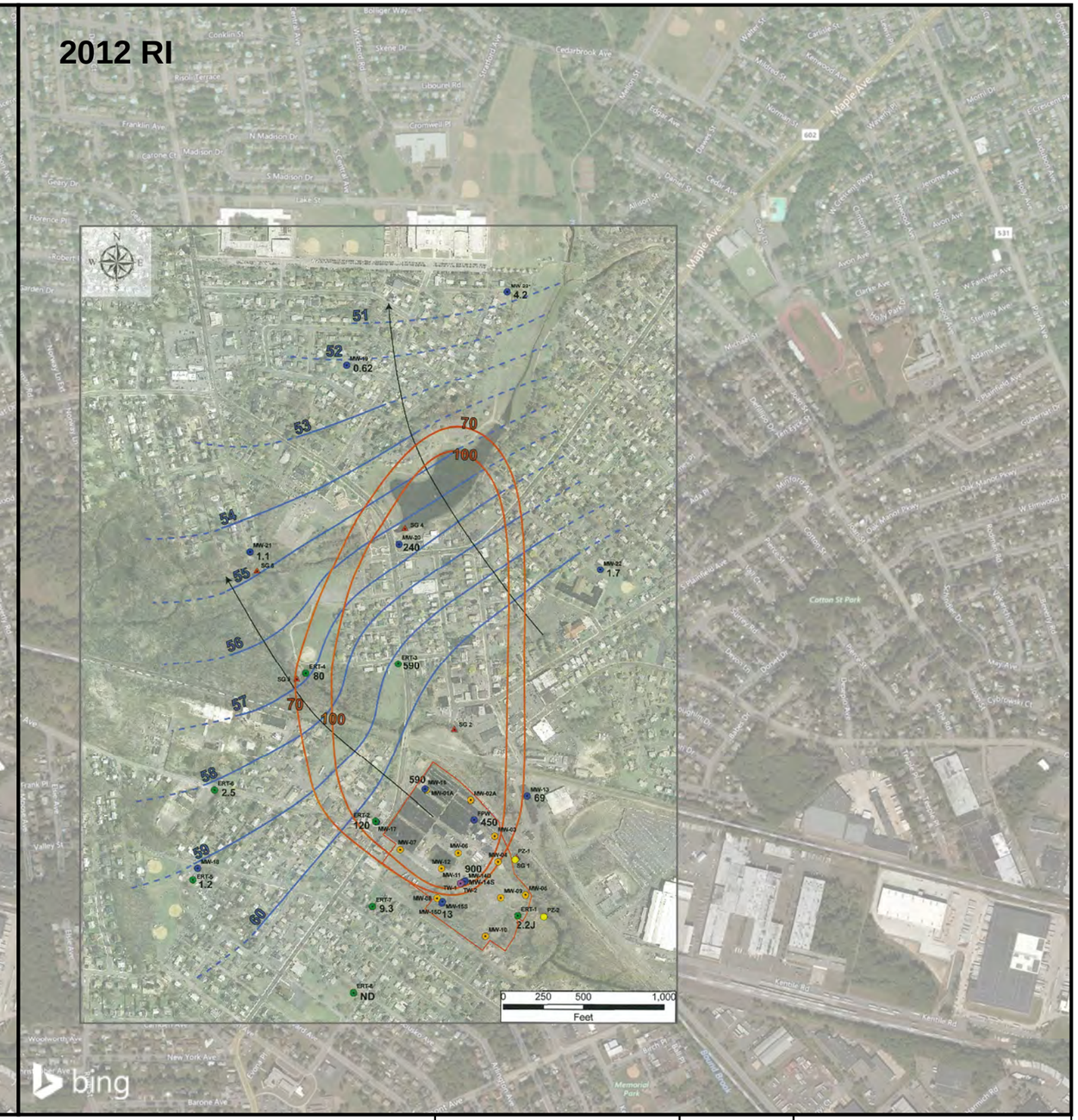
Figure 5-3C
BMP TCE and RI BMP
Intermediate Water-bearing Zone
(120 - 185')

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-3C TCE_Intermediate, RI and BL.mxd





Former CDE Facility Boundary

Waterbody

Monitoring Well

Stream

Line of Equal cis-1,2-DCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Intermediate Water-bearing Zone (120' - 185' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where iInferred)

Direction of Groundwater Movement

cis-1,2-DCE Concentration (µg/L)

- < 7
- 7 - 70
- 70 - 700
- 700 - 7,000
- 7,000 - 70,000
- > 70,000

The Preliminary Remediation Goal for cis-1,2-Dichloroethene is 70 ug/L.

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

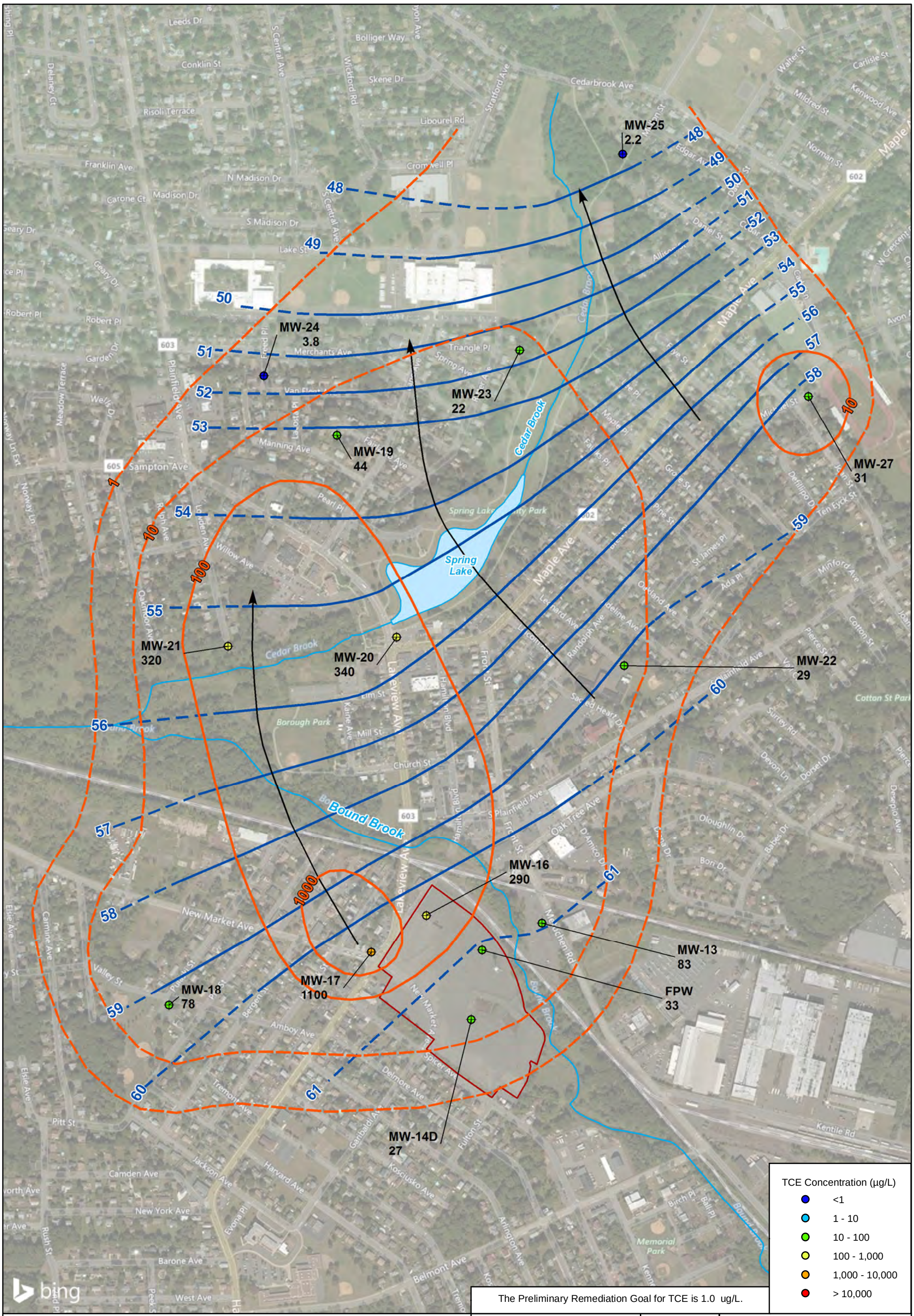
December 2017

Figure 5-3D
BMP cis-1,2-Dichloroethene and RI cis-1,2-Dichloroethene Intermediate Water-bearing Zone (120 - 185')

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-3D DCE_Intermediate, RI and BL.mxd



Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
Line of Equal TCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Deep Water-bearing Zone (200' - 250' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)
Direction of Groundwater Movement

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-4A
TCE Distribution
Deep Water-bearing Zone (200' - 250' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-4A TCE_Deep, Round 1_Concentrations.mxd

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-4B DCE_Deep, Round 1_Concentrations.mxd

Former CDE Facility Boundary
Waterbody
Monitoring Well
Stream
Line of Equal cis-1,2-DCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Deep Water-bearing Zone (200' - 250' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

N

Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey

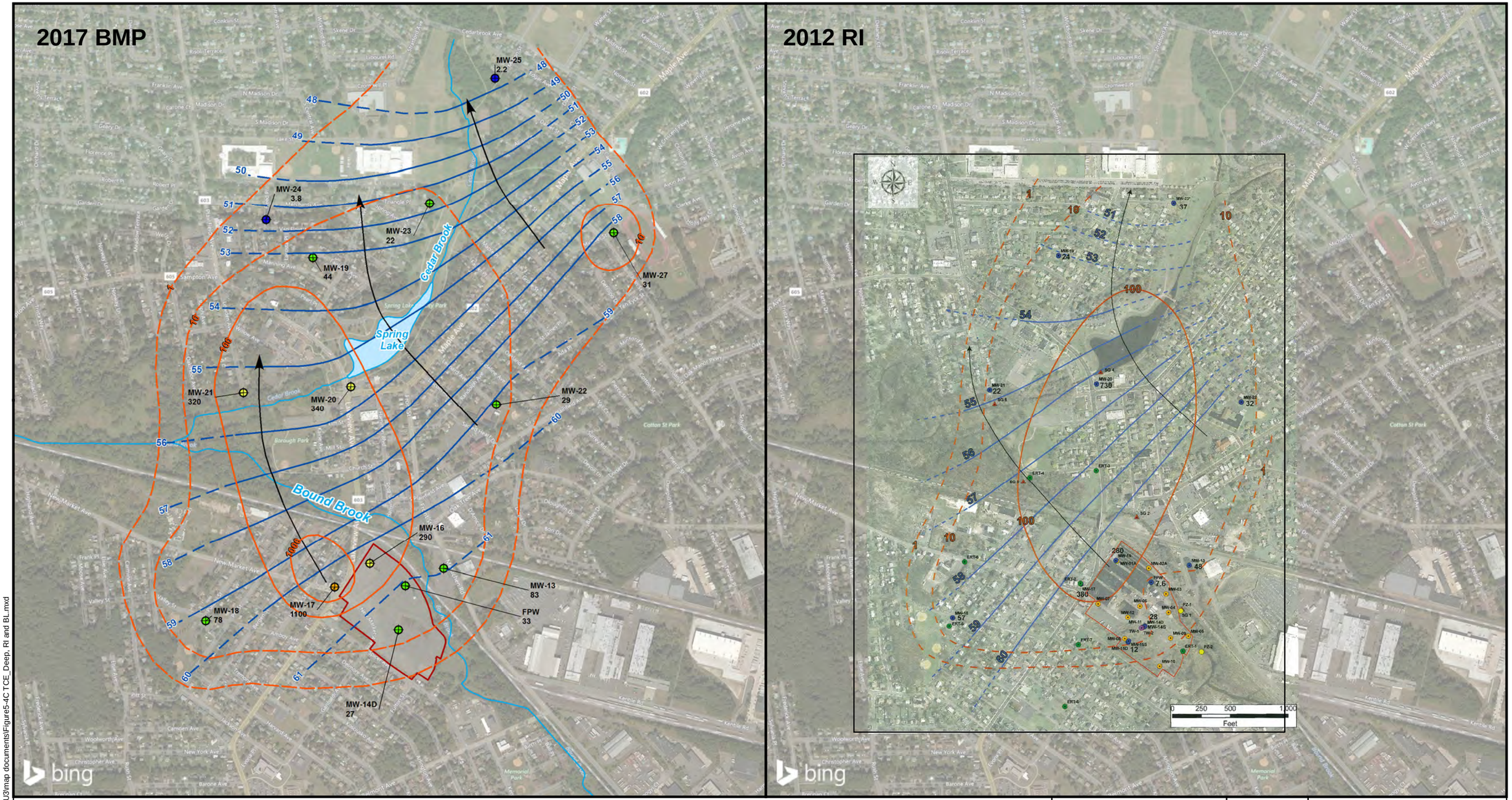
Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

December 2017

Figure 5-4B
cis-1,2-Dichloroethene Distribution
Deep Water-bearing Zone (200' - 250' bgs)

Louis Berger

0 500 1,000 Feet



Former CDE Facility Boundary

Waterbody

Monitoring Well

Stream

Line of Equal TCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Deep Water-bearing Zone (200' - 250' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

TCE Concentration (µg/L)

- <1
- 1 - 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- > 10,000

The Preliminary Remediation Goal for TCE 1.0 ug/L.

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

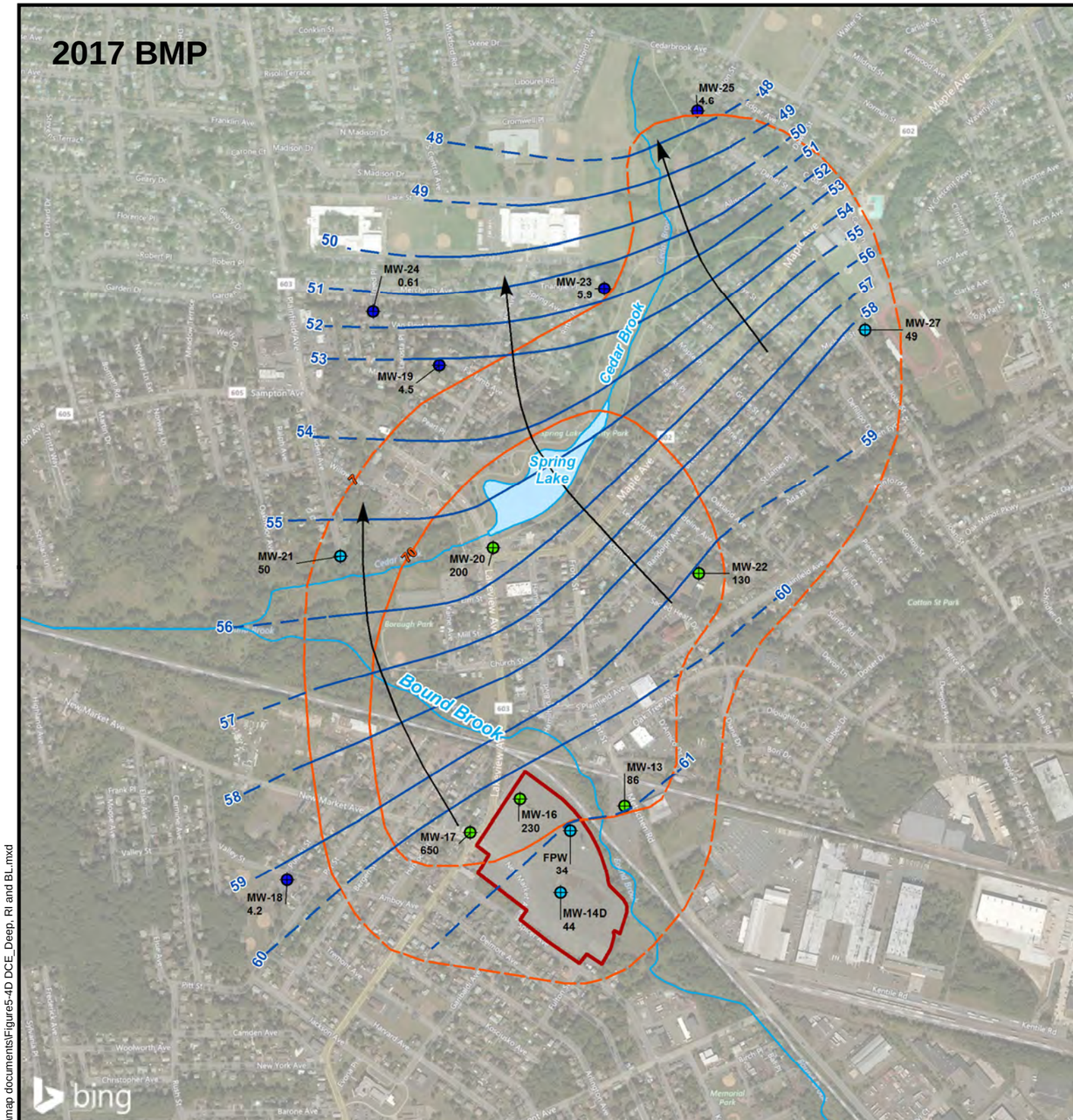
December 2017

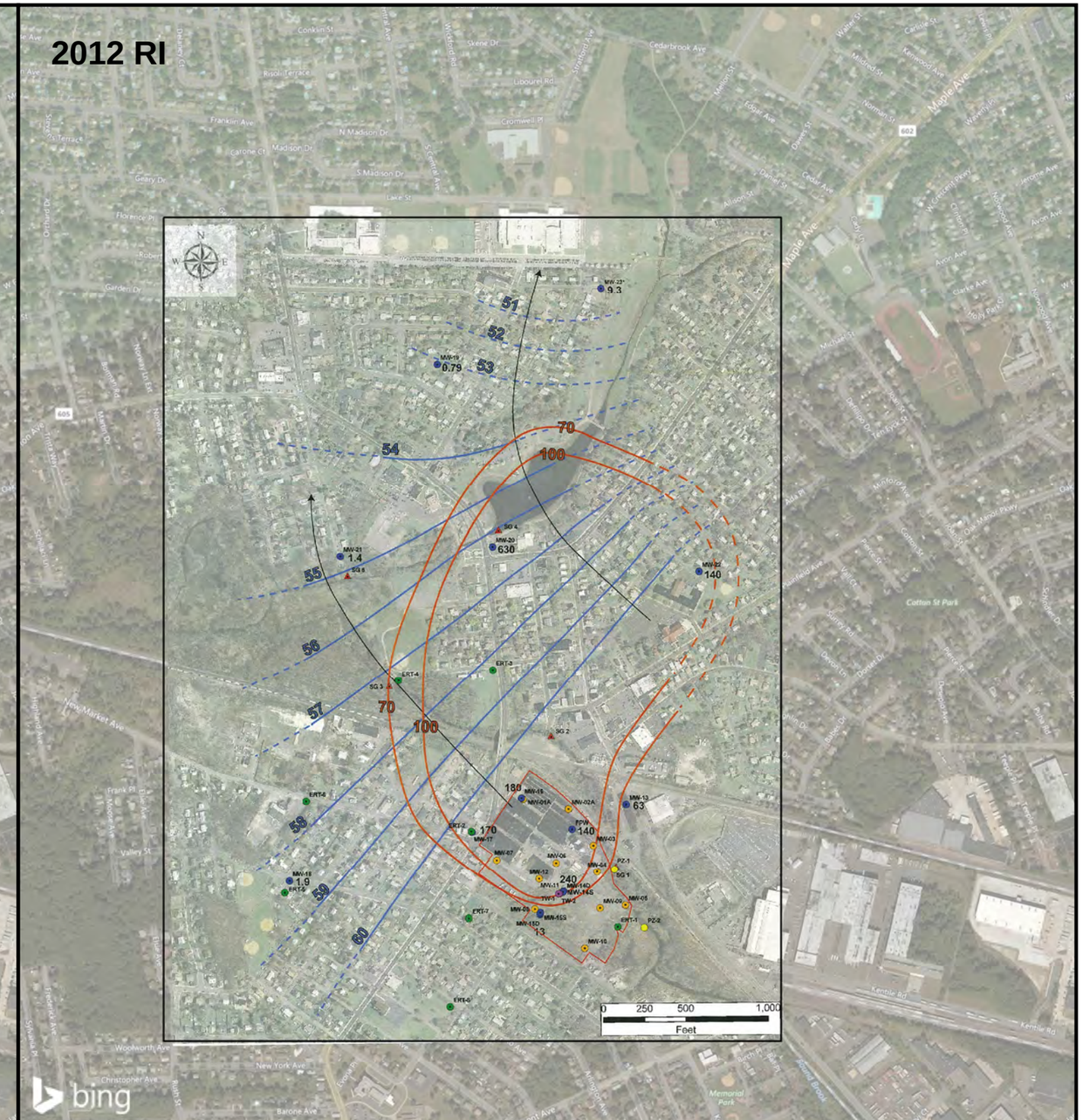
Figure 5-4C
BMP TCE and RI TCE
Deep Water-bearing Zone
(200' - 250' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-4C TCE_Deep, RI and BL.mxd





Former CDE Facility Boundary

Waterbody

Monitoring Well

Stream

Line of Equal cis-1,2-DCE Concentration (µg/L) (Dashed where inferred)

Potentiometric Surface Deep Water-bearing Zone (200' - 250' bgs)

Limit of Equal Groundwater Elevation (ft MSL) (Dashed where inferred)

Direction of Groundwater Movement

cis-1,2-DCE Concentration (µg/L)

- < 7
- 7 - 70
- 70 - 700
- 700 - 7,000
- 7,000 - 70,000
- > 70,000

The Preliminary Remediation Goal for cis-1,2-Dichloroethene is 70 ug/L.

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

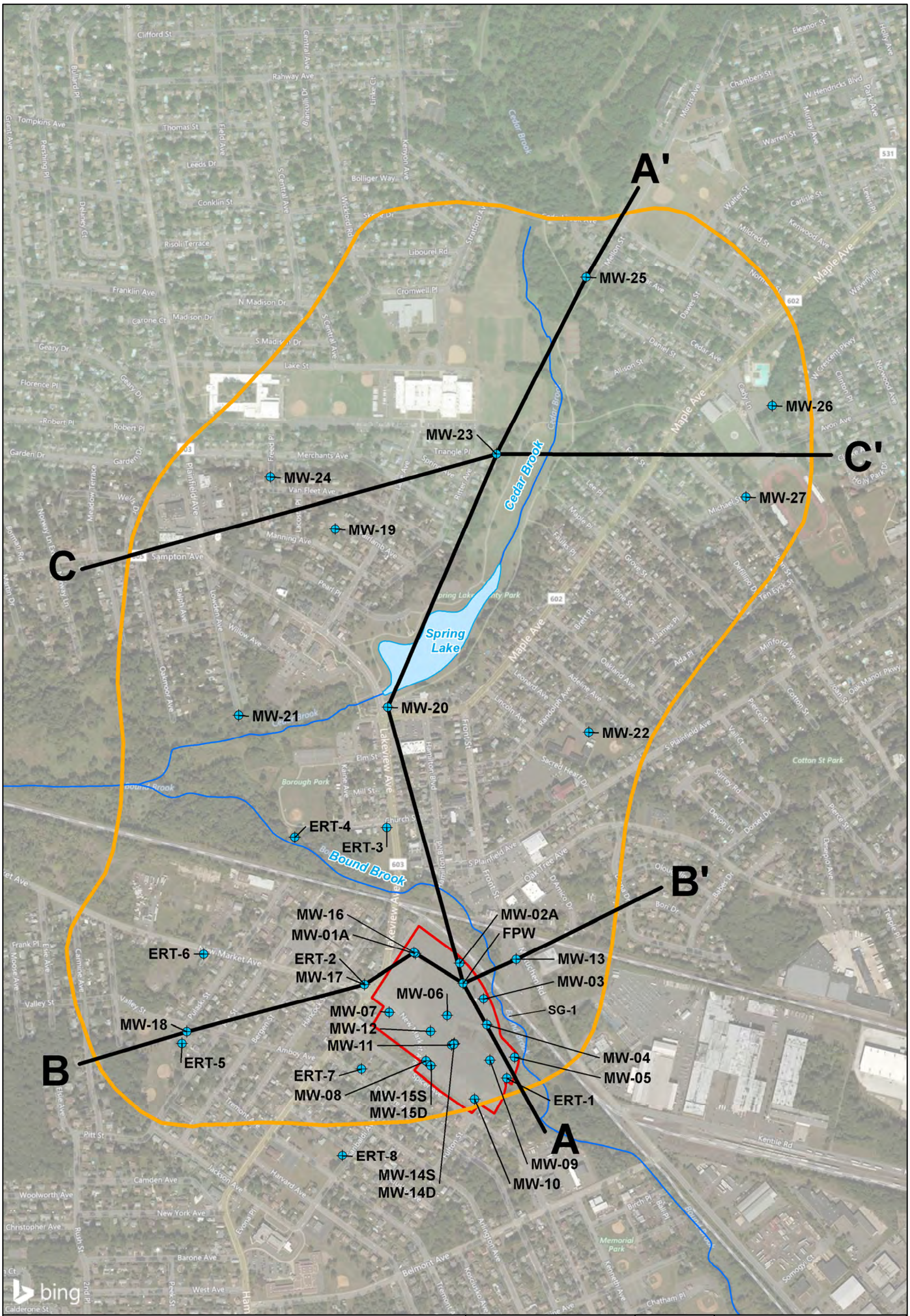
December 2017

Figure 5-4D
BMP cis-1,2-Dichloroethene and RI cis-1,2-Dichloroethene Deep Water-bearing Zone (200' - 250' bgs)

Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5-4D DCE_Deep, RI and BL.mxd



Former CDE Facility
CEA Extent
Waterbody
Cross Section
Stream
Monitoring Well

N

Cornell-Dublier Electronics Superfund Site
South Plainfield, New Jersey

Coordinate System:
New Jersey State Plane Ft
FIPS 2900; NAD 1983

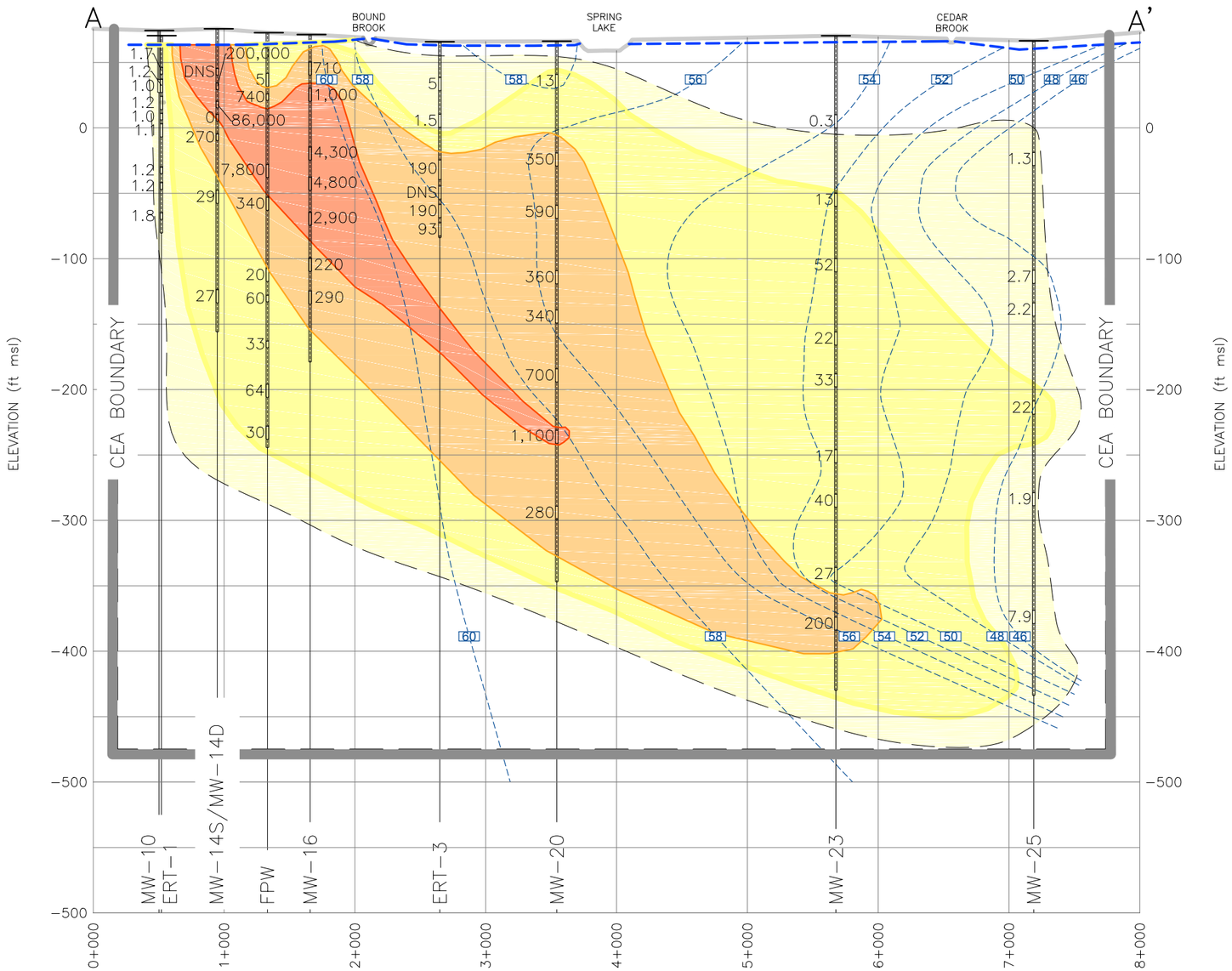
February 2018

Figure 5A
Cross-Section Locations

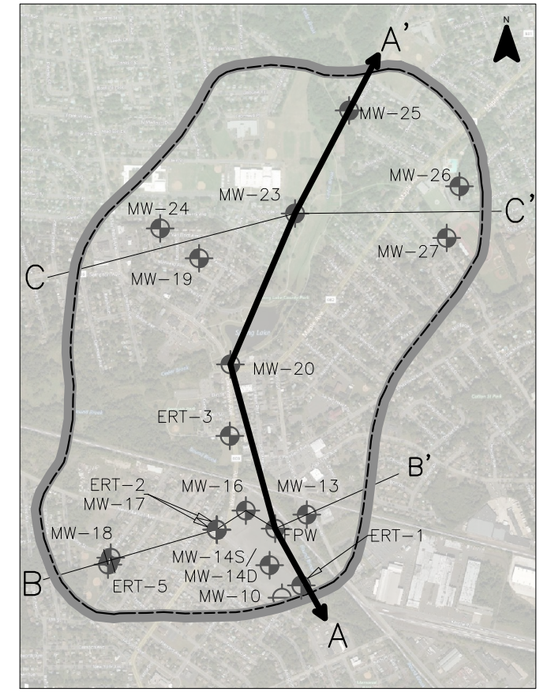
Louis Berger

0 500 1,000 Feet

Document Path: S:\Projects\4553023\OU3\map documents\Figure5a-CrossSectionLocations.mxd



A-A' CROSS SECTION



PLAN VIEW

Legend

- SINGLE SCREEN MONITORING WELL
- MULTILEVEL MONITORING WELL
- CEA BOUNDARY
- GROUND SURFACE
- WATER TABLE
- INFERRED LINE OF EQUAL WATER LEVEL ELEVATION (FT MSL) [12/20/2016]
- TCE CONCENTRATION (ug/L) FROM MONITORING INTERVAL — MULTILEVEL MONITORING WELL (1 INTERVAL)

ESTIMATED AQUEOUS CONCENTRATION

- > 1,000 ug/L
- > 100 ug/L
- > 10 ug/L
- > 1 ug/L (inferred)

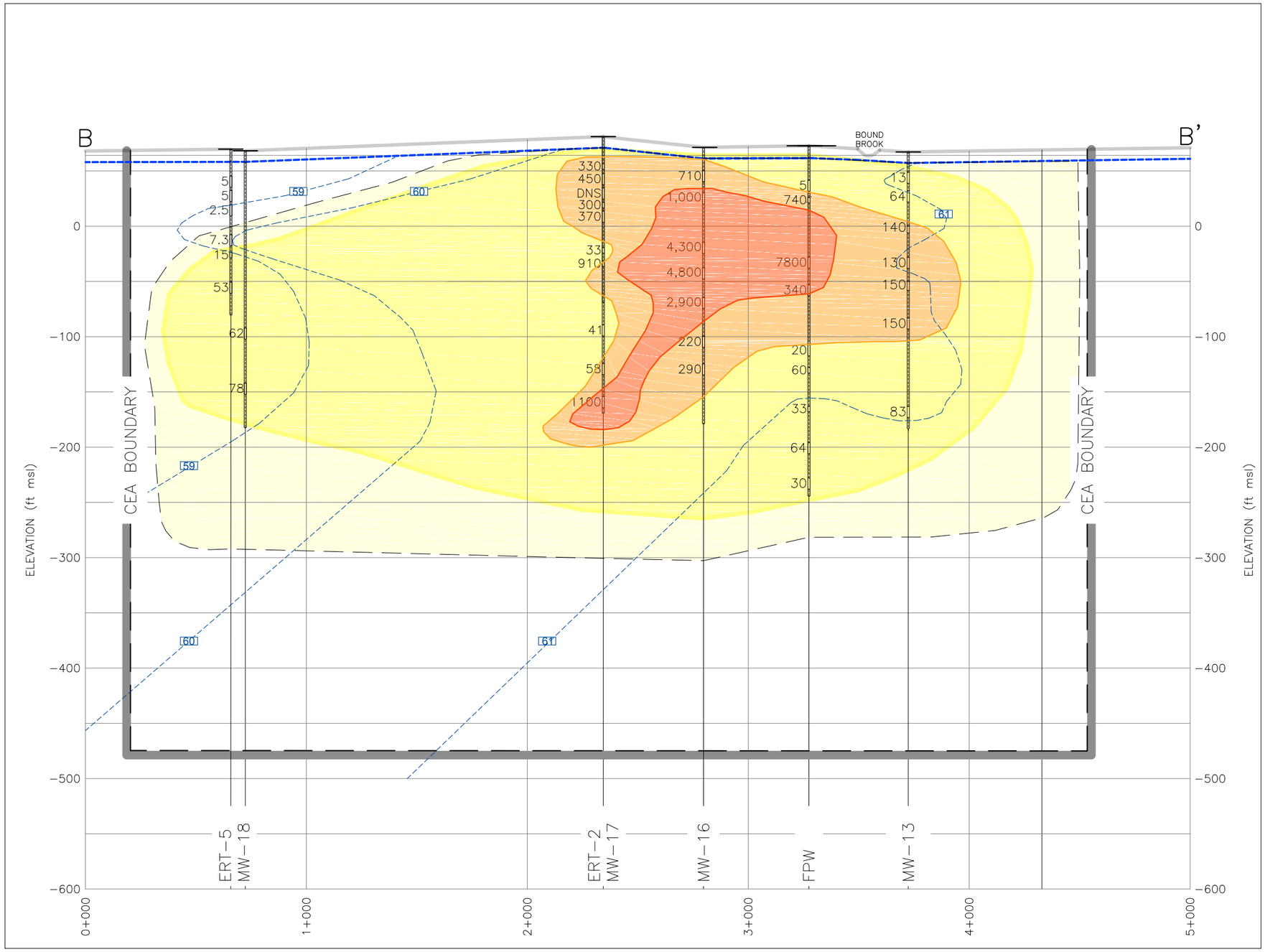
Louis Berger

CORNELL-DUBLIER ELECTRONICS SUPERFUND SITE
OU3 - Groundwater
South Plainfield, New Jersey

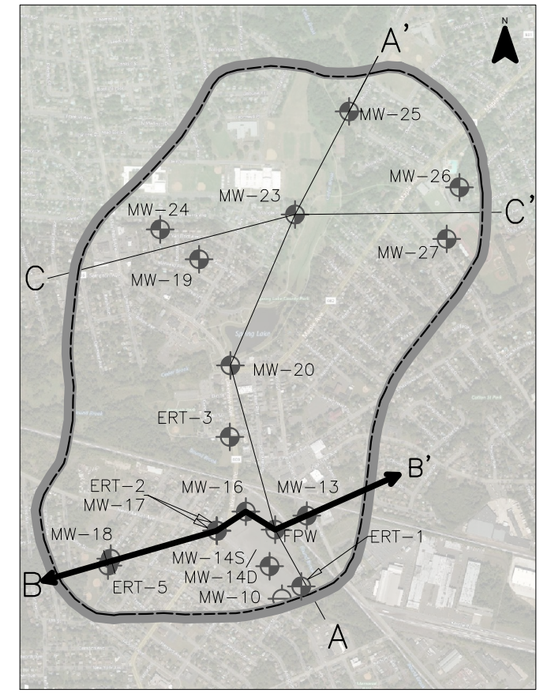
Notes:
- The depicted aqueous isoconcentrations in the fractured bedrock are estimated, and do not imply total block saturation. Colored regions should be interpreted as zones in which halo saturation is possible at the isocontour interval denoted.
- DNS - Did not sample

Hydrogeologic Cross-Section with Aqueous Concentration Isocontours Trichloroethene (TCE)
January, 2018

Figure 5-5B
Cross-Section A-A'



B-B' CROSS SECTION



PLAN VIEW

Legend

- SINGLE SCREEN MONITORING WELL
- MULTILEVEL MONITORING WELL
- CEA BOUNDARY
- GROUND SURFACE
- WATER TABLE
- 60 — INFERRED LINE OF EQUAL WATER LEVEL ELEVATION (FT MSL) [12/20/2016]

TCE CONCENTRATION (ug/L) FROM MONITORING INTERVAL — MULTILEVEL MONITORING WELL (1 INTERVAL)

ESTIMATED AQUEOUS CONCENTRATION

- > 1,000 ug/L
- > 10 ug/L
- > 100 ug/L
- > 1 ug/L (inferred)

Louis Berger

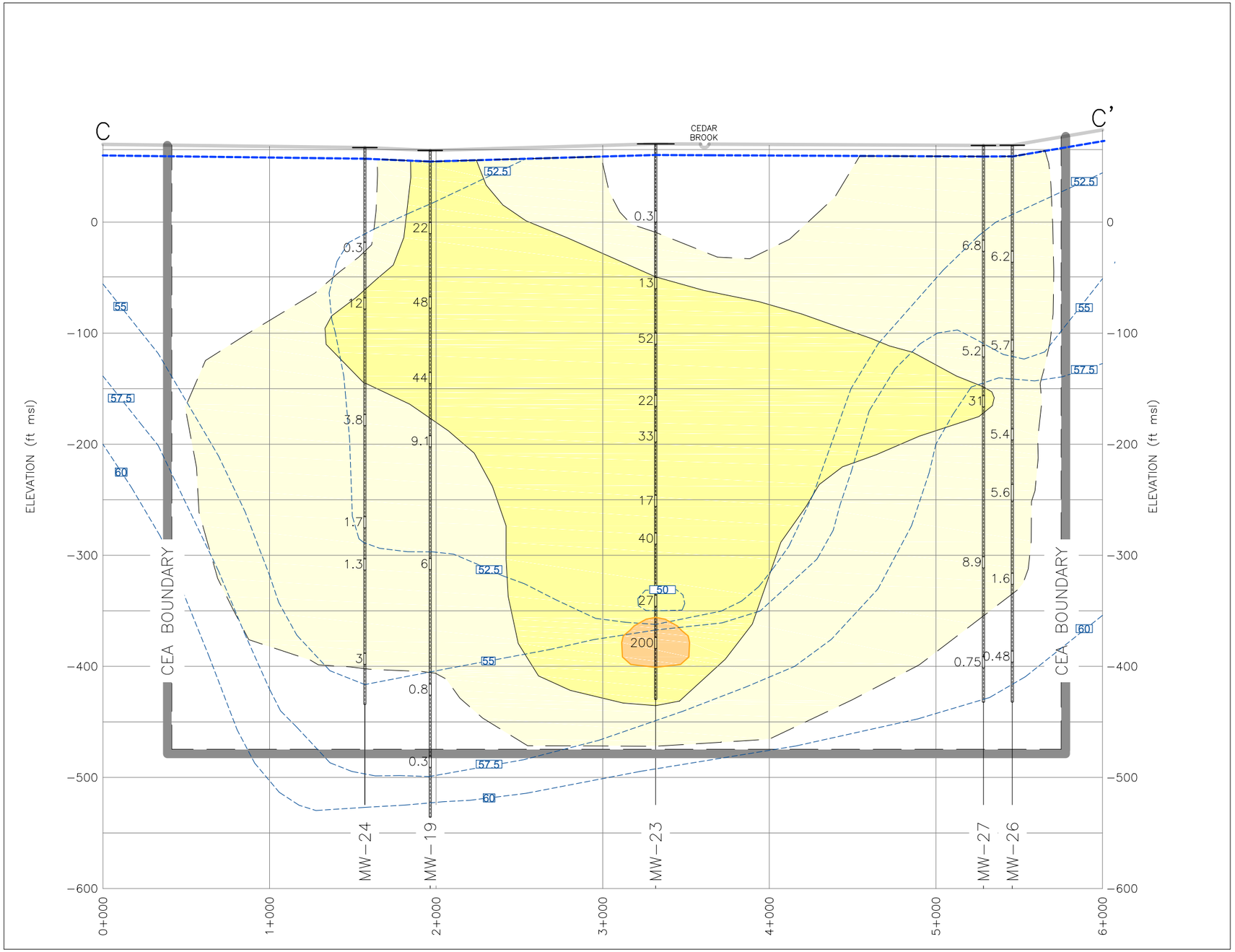
CORNELL-DUBLIER ELECTRONICS SUPERFUND SITE
OU3 - Groundwater
South Plainfield, New Jersey

Notes:
- The depicted aqueous isoconcentrations in the fractured bedrock are estimated, and do not imply total block saturation. Colored regions should be interpreted as zones in which halo saturation is possible at the isocontour interval denoted.
- DNS - Did not sample

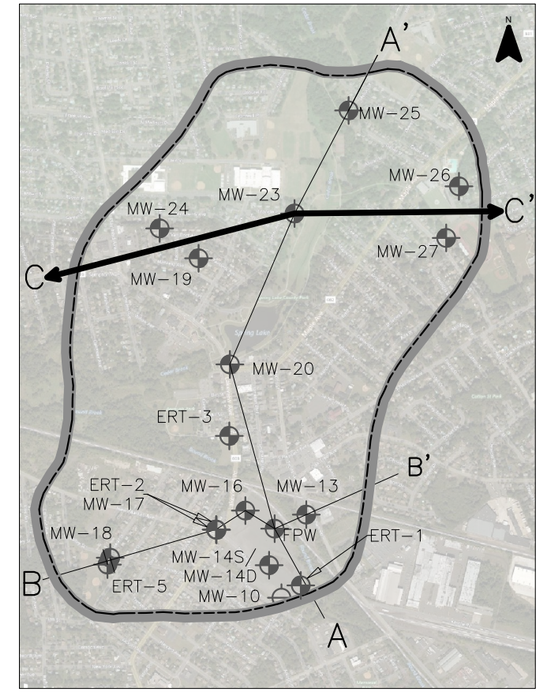
Hydrogeologic Cross-Section with Aqueous Concentration Isocontours Trichloroethene (TCE)
January, 2018

Figure 5-5C

Cross-Section B-B'



C-C' CROSS SECTION



PLAN VIEW

Legend

- SINGLE SCREEN MONITORING WELL
- MULTILEVEL MONITORING WELL
- CEA BOUNDARY
- GROUND SURFACE
- WATER TABLE
- 60 INFERRED LINE OF EQUAL WATER LEVEL ELEVATION (FT MSL) [12/20/2016]
- TCE CONCENTRATION (ug/L) FROM MONITORING INTERVAL — MULTILEVEL MONITORING WELL (1 INTERVAL)

ESTIMATED AQUEOUS CONCENTRATION

- > 1,000 ug/L
- > 10 ug/L
- > 100 ug/L
- > 1 ug/L (inferred)

Louis Berger

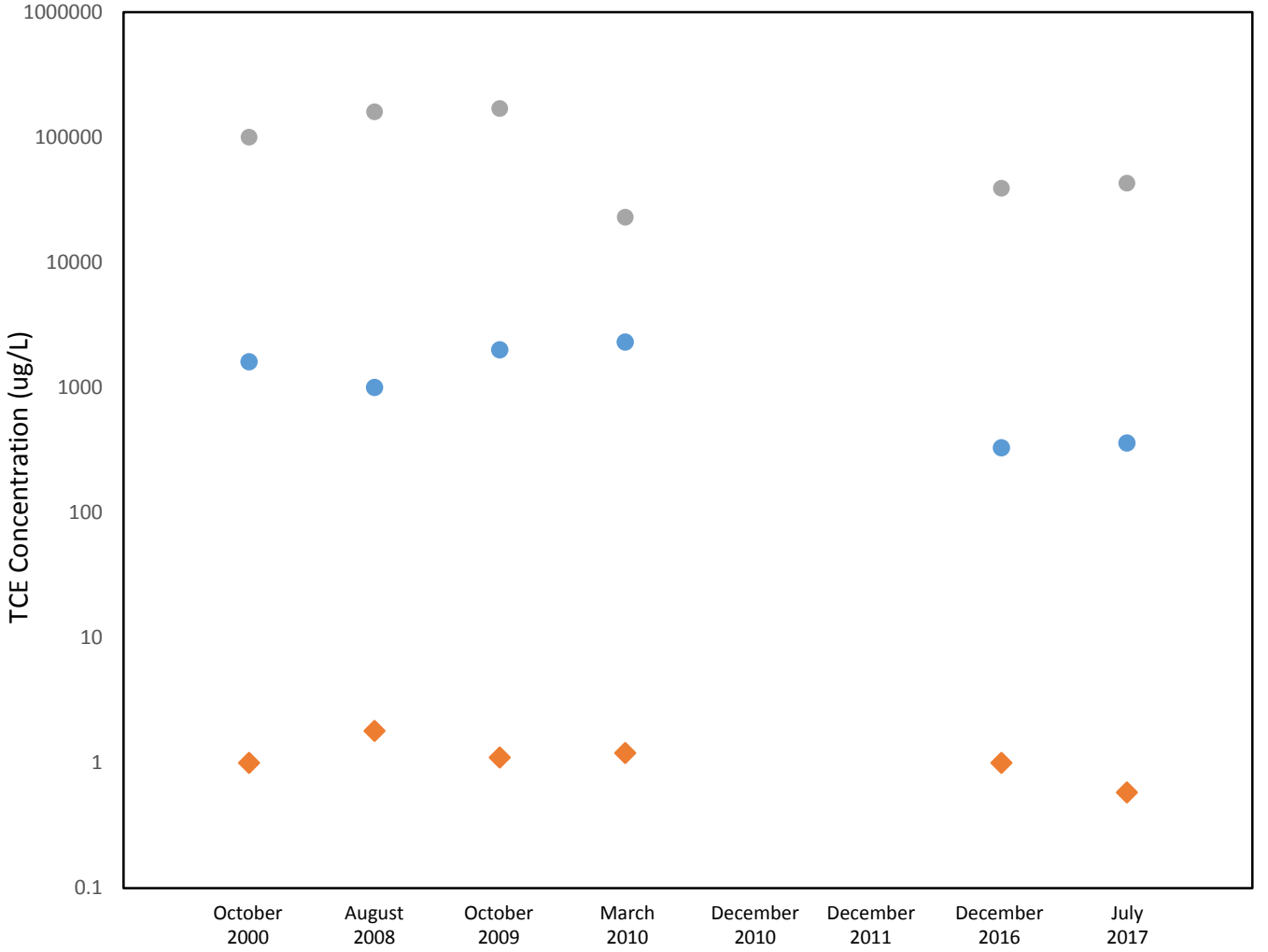
CORNELL-DUBLIER ELECTRONICS SUPERFUND SITE
OU3 - Groundwater
South Plainfield, New Jersey

Notes:
- The depicted aqueous isoconcentrations in the fractured bedrock are estimated, and do not imply total block saturation. Colored regions should be interpreted as zones in which halo saturation is possible at the isocontour interval denoted.
- DNS - Did not sample

Hydrogeologic Cross-Section with Aqueous Concentration Isocontours Trichloroethene (TCE)
January, 2018

Figure 5-5D

Cross-Section C-C'

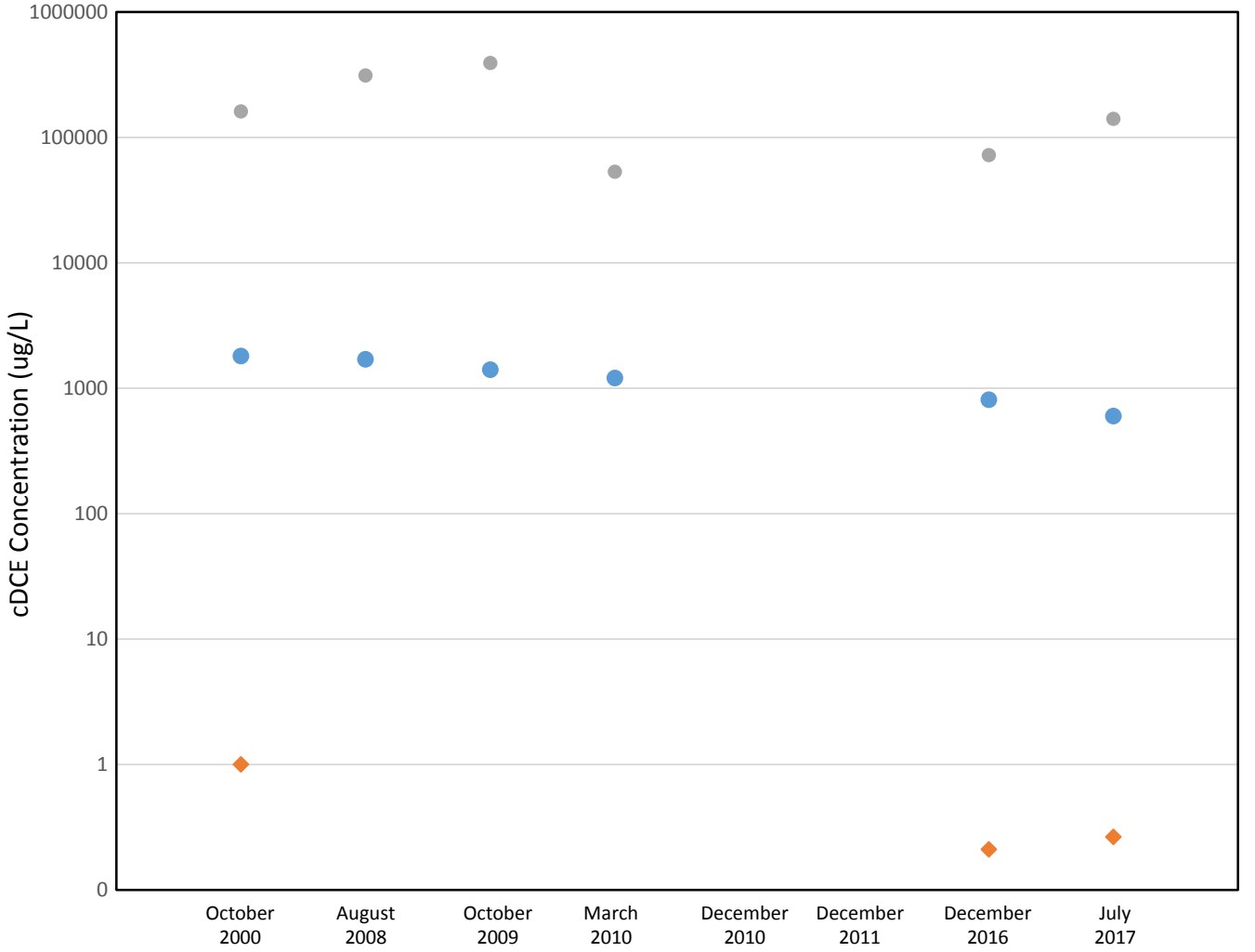


Plot Notes:

1. MW-10 was not included in the December 2010 or December 2011 sampling events.

MW-01A represents the downgradient edge of the OU2 property.
MW-10 represents the area upgradient of the former source area.
MW-11 represents the former source area.

Figure 5-6A	Trichloroethene Concentrations over Time at MW-10, MW-01A, and MW-11	Louis Berger

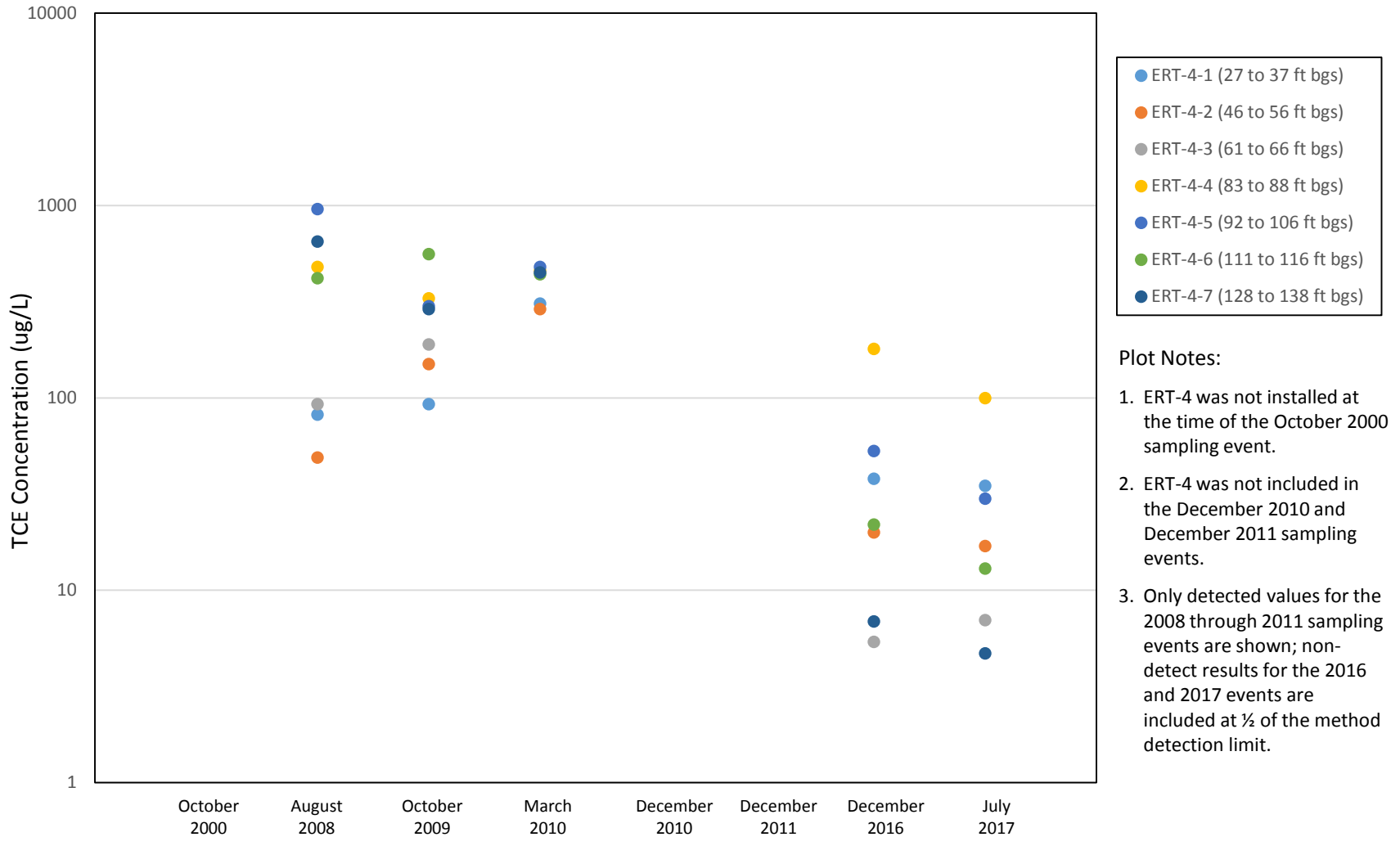


Plot Notes:

1. cis-Dichloroethene was not detected at MW-10 between the 2000 and 2010 sampling events.
2. MW-10 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the 2008 through 2011 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-01A represents the downgradient edge of the OU2 property.
MW-10 represents the area upgradient of the former source area.
MW-11 represents the former source area.

Figure 5-6B	cis-1,2-Dichloroethene Concentrations over Time at MW-01A, MW-10 and MW-11	Louis Berger

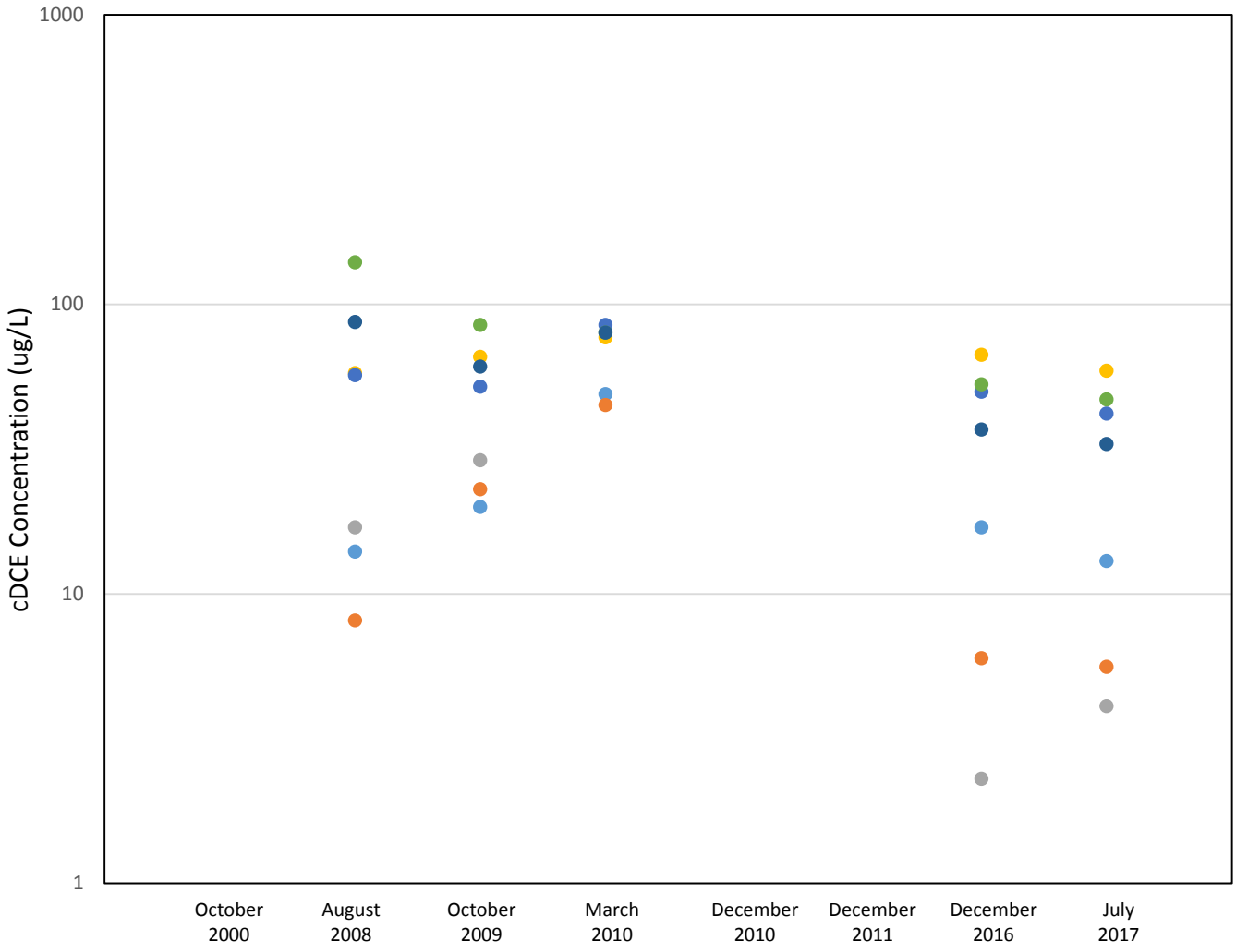


Plot Notes:

1. ERT-4 was not installed at the time of the October 2000 sampling event.
2. ERT-4 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the 2008 through 2011 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

ERT-4 represents the area between the downgradient edge of the OU2 property and the center of the plume.

Figure 5-7A	Trichloroethene Concentrations over Time at ERT-4	Louis Berger

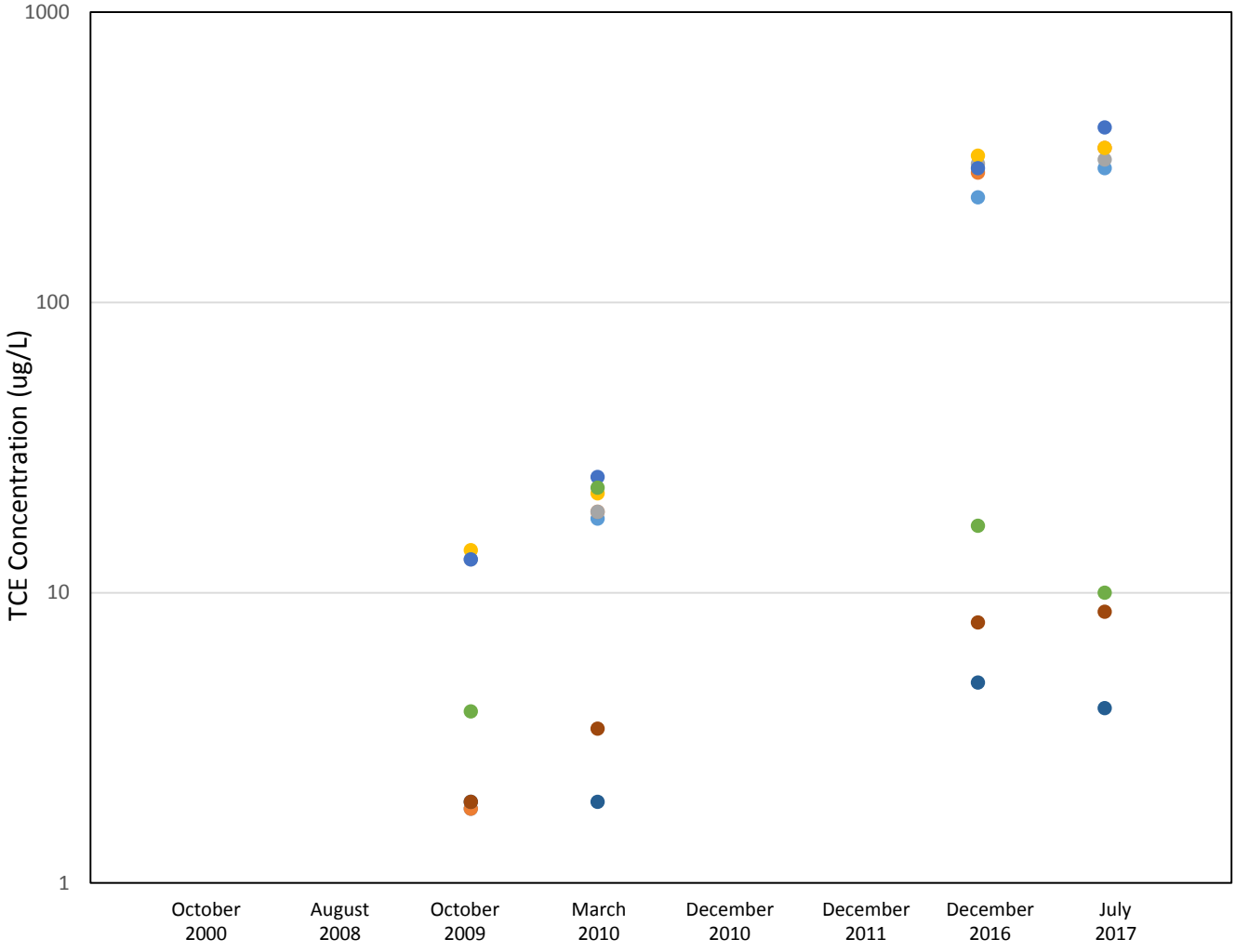


Plot Notes:

1. ERT-4 was not installed at the time of the October 2000 sampling event.
2. ERT-4 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the 2008 through 2011 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

ERT-4 represents the area between the downgradient edge of the OU2 property and the center of the plume.

Figure 5-7B	cis-1,2-Dichloroethene Concentrations over Time at ERT-4	Louis Berger

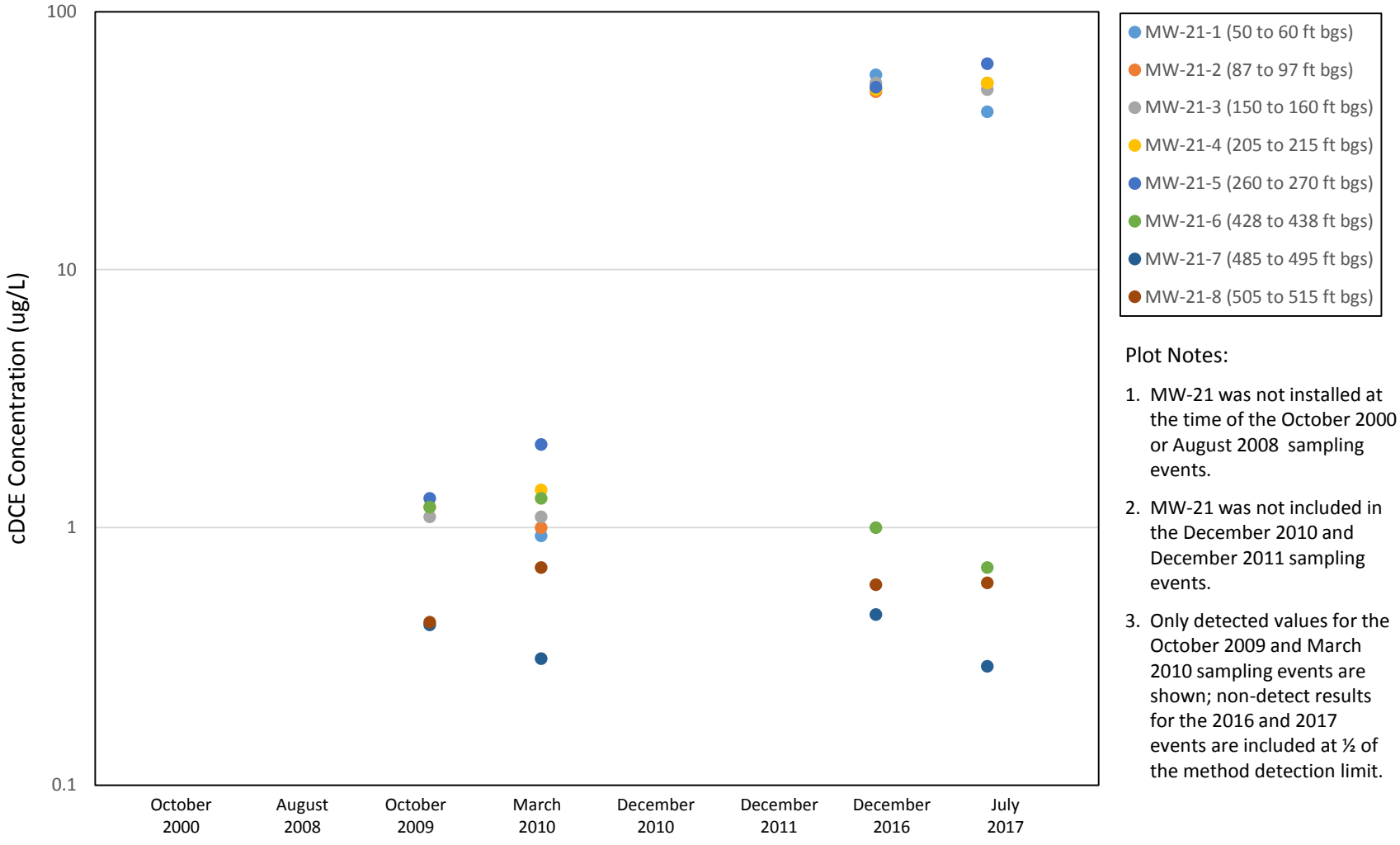


Plot Notes:

1. MW-21 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-21 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the October 2009 and March 2010 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-21 represents the central portion of the plume.

Figure 5-8A	Trichloroethene Concentrations over Time at MW-21	Louis Berger

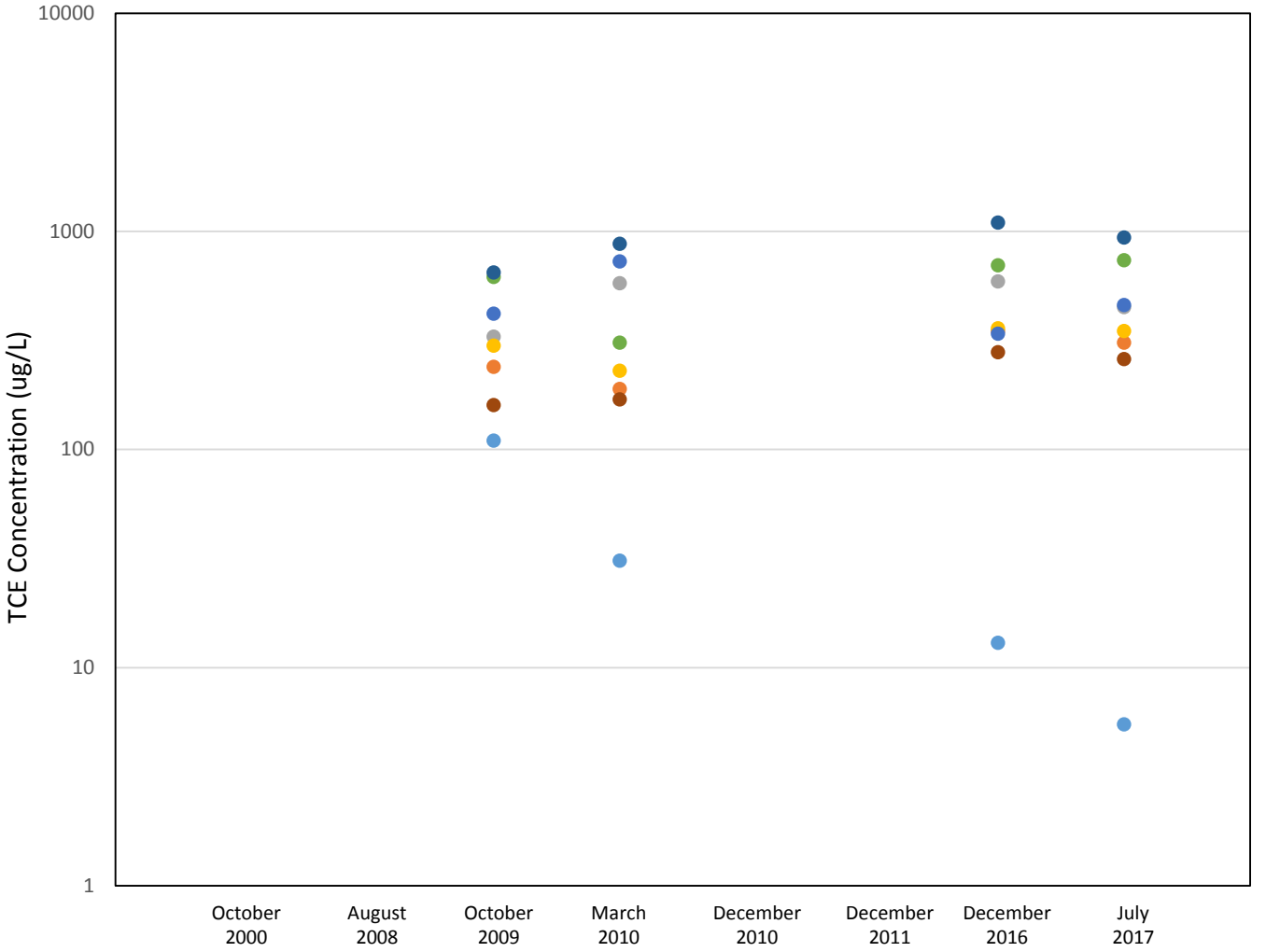


Plot Notes:

1. MW-21 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-21 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the October 2009 and March 2010 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-21 represents the central portion of the plume.

Figure 5-8B	cis-1,2-Dichloroethene Concentrations over Time at MW-21	Louis Berger



Plot Notes:

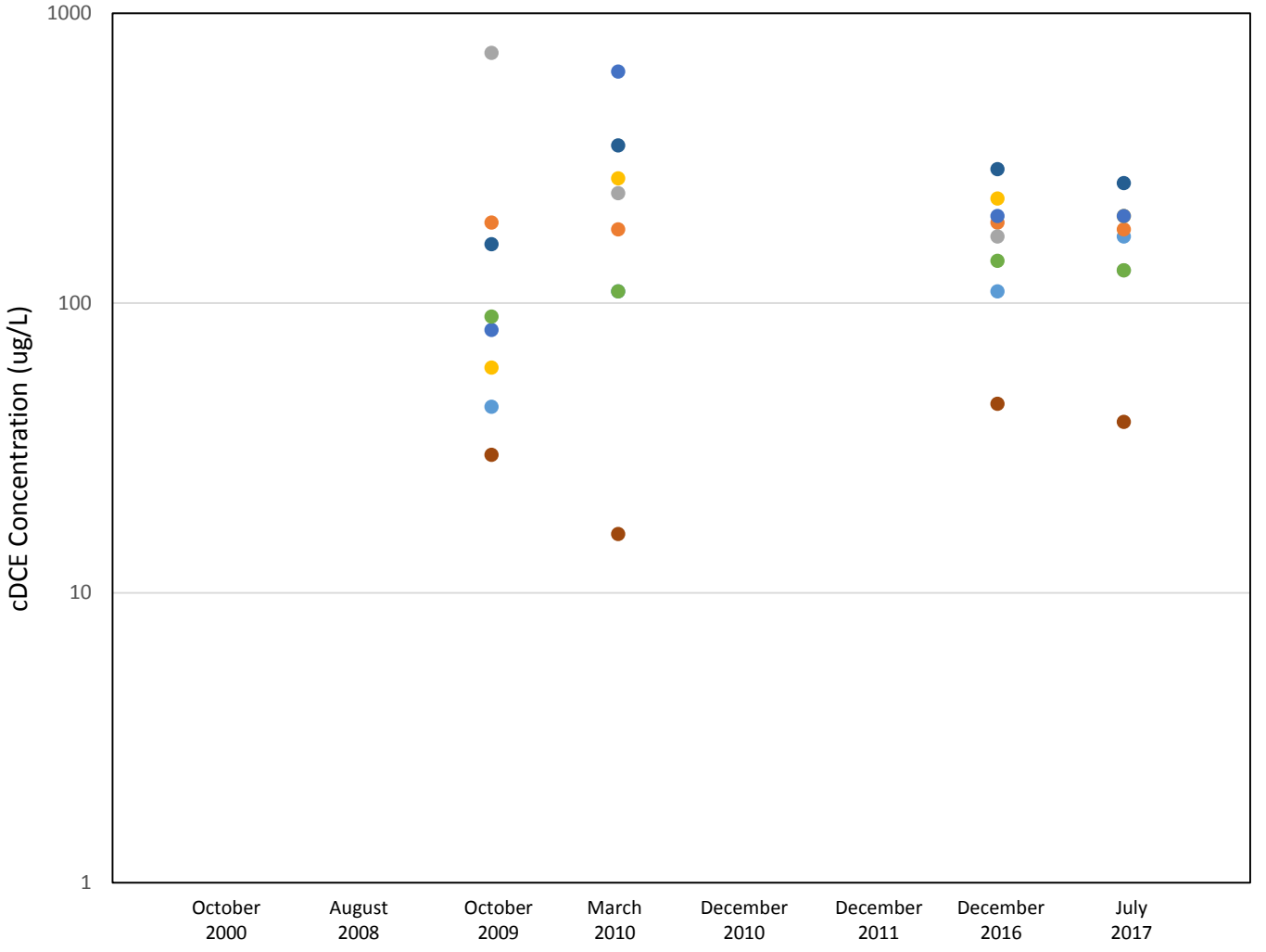
1. MW-20 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-20 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the October 2009 and March 2010 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-20 represents the central portion of the plume.

Figure 5-9A

Trichloroethene Concentrations over Time at MW-20

Louis Berger

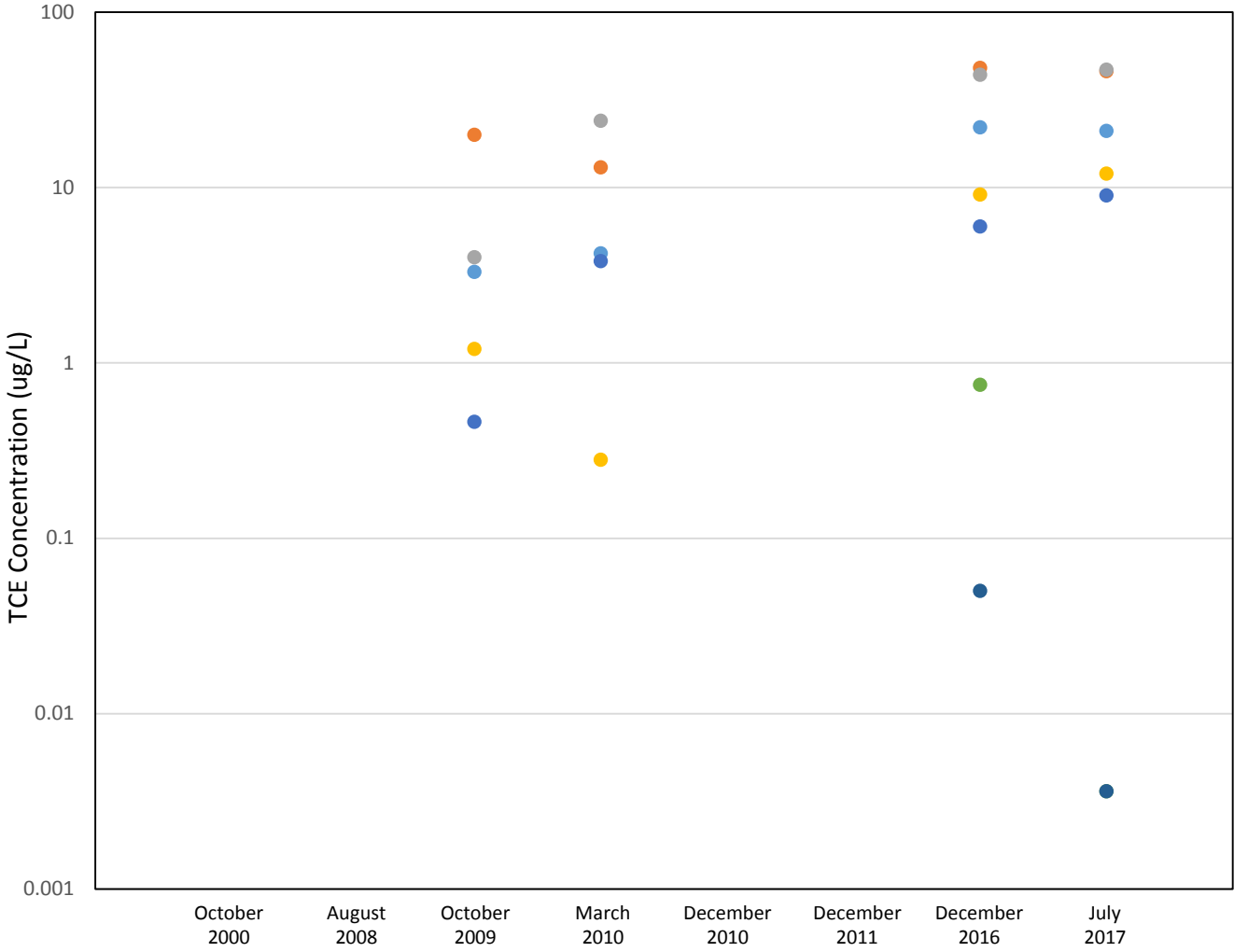


Plot Notes:

1. MW-20 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-20 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the October 2009 and March 2010 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-20 represents the central portion of the plume.

Figure 5-9B	cis-1,2-Dichloroethene Concentrations over Time at MW-20	Louis Berger

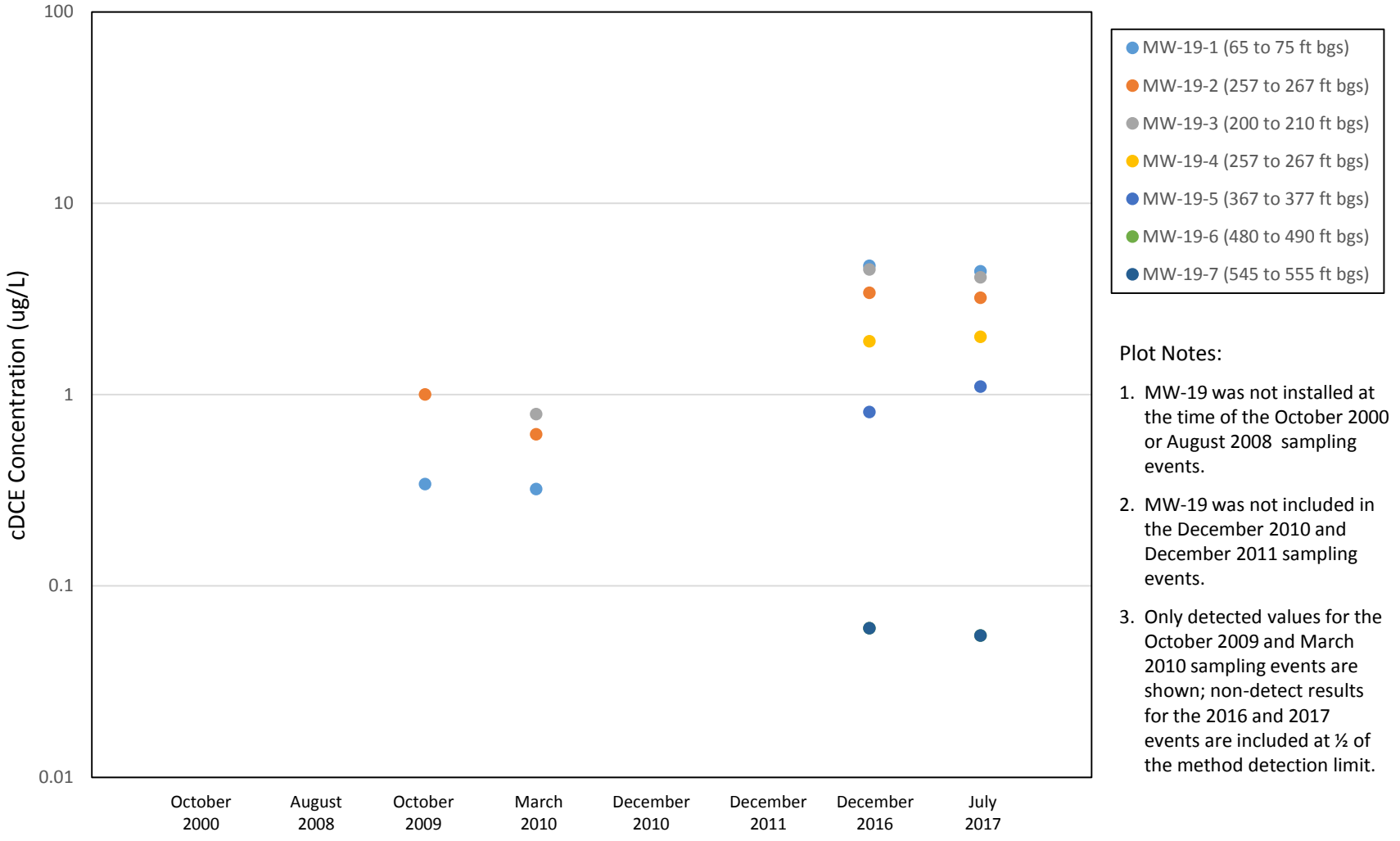


Plot Notes:

1. MW-19 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-19 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the October 2009 and March 2010 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-19 represents the north-central portion of the plume.

Figure 5-10A	Trichloroethene Concentrations over Time at MW-19	Louis Berger



Plot Notes:

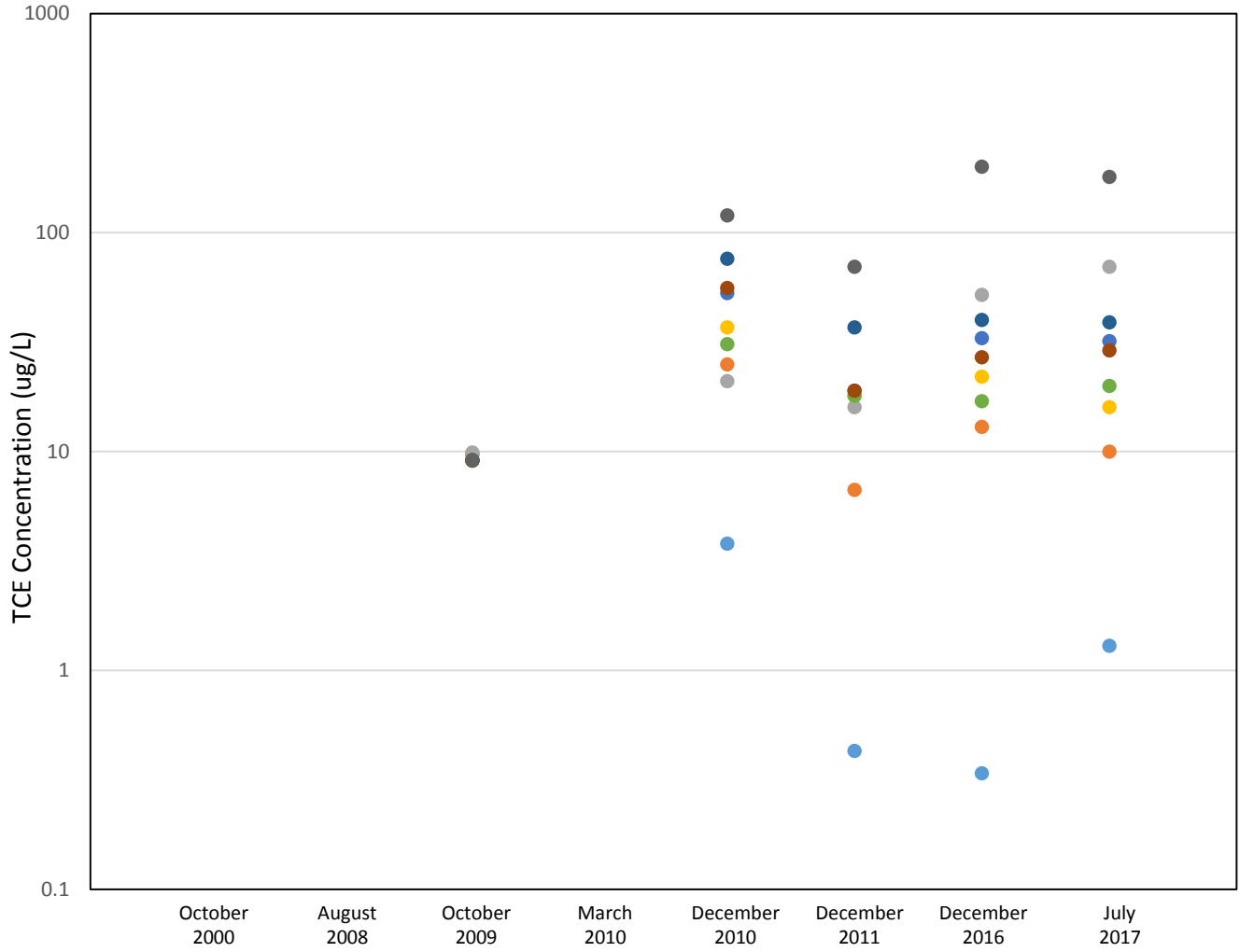
1. MW-19 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-19 was not included in the December 2010 and December 2011 sampling events.
3. Only detected values for the October 2009 and March 2010 sampling events are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-19 represents the north-central portion of the plume.

Figure 5-10B

cis-1,2-Dichloroethene Concentrations over Time at MW-19

Louis Berger



- MW-23-1 (60 to 70 ft bgs)
- MW-23-2 (120 to 130 ft bgs)
- MW-23-3 (170 to 180 ft bgs)
- MW-23-4 (226 to 236 ft bgs)
- MW-23-5 (258 to 268 ft bgs)
- MW-23-6 (316 to 326 ft bgs)
- MW-23-7 (350 to 360 ft bgs)
- MW-23-8 (406 to 416 ft bgs)
- MW-23-9 (444 to 445 ft bgs)

Plot Notes:

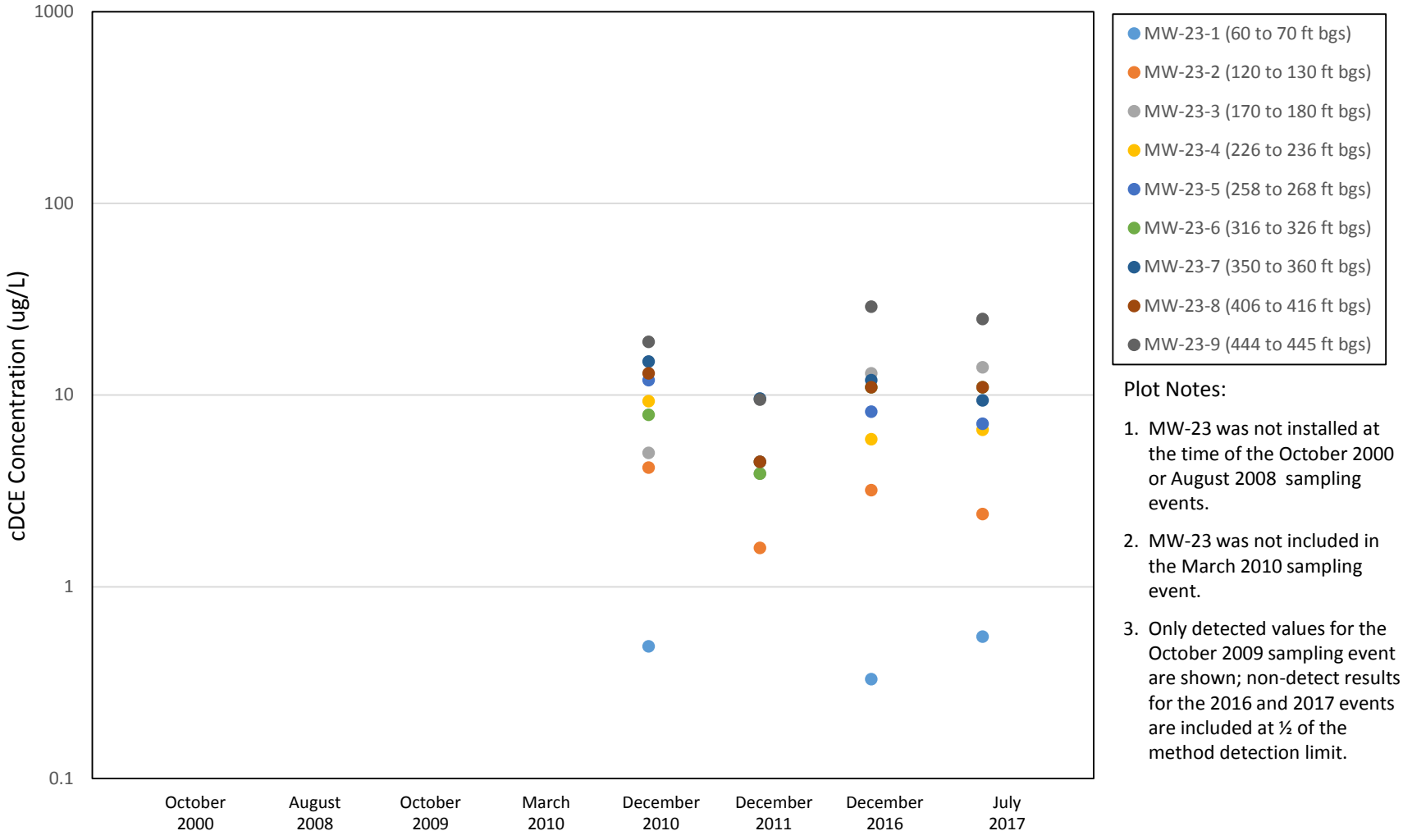
1. MW-23 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-23 was not included in the March 2010 sampling event.
3. Only detected values for the October 2009 sampling event are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-23 represents the distal portion of the plume.

Figure 5-11A

Trichloroethene Concentrations over Time at MW-23

Louis Berger



Plot Notes:

1. MW-23 was not installed at the time of the October 2000 or August 2008 sampling events.
2. MW-23 was not included in the March 2010 sampling event.
3. Only detected values for the October 2009 sampling event are shown; non-detect results for the 2016 and 2017 events are included at ½ of the method detection limit.

MW-23 represents the distal portion of the plume.

Figure 5-11B

cis-1,2-Dichloroethene Concentrations over Time at MW-23

Louis Berger

Appendices

Appendix A – Daily Reports

Round 1: December 2016 and January 2017

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/15/2016
Field Team: Jonathan Ganz
Paul Trudell

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors or equipment onsite

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all vehicles on site

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)	✓							

For actual calibration results, see field calibration forms.

Summary of Work Performed: Gauged 12 traditional MWs (MW01A- MW12) and gauged seven (7) Water FLUTe wells (MW14S, MW14D, MW15S, MW15D, MW16, ERT1, FPW); purged four (4) additional Water FLUTe wells to be gauged tomorrow.

All samples were collected according to the procedures outlined in the planning documents?

Yes _____ No _____ N/A

Problems encountered/corrective actions taken: None encountered

Time Project Manager Contacted: PM contacted multiple times throughout day with progress updates

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/16/2016
Field Team: Jonathan Ganz
Paul Trudell

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors or equipment onsite

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all vehicles on site

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)	✓							

For actual calibration results, see field calibration forms.

Summary of Work Performed: Purged Remaining 15 Water FLUTe wells; Developed 3 Drums of IDW groundwater

All samples were collected according to the procedures outlined in the planning documents?

Yes _____ No _____ N/A

Problems encountered/corrective actions taken: None encountered

Time Project Manager Contacted: PM contacted multiple times throughout day with progress updates

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/19/2016
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors or equipment onsite

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all vehicles on site

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)								

For actual calibration results, see field calibration forms.

Summary of Work Performed: Gauged remaining 19 Water FLUTe wells; Topped off FLUTes if low water was measured through tag lines.

All samples were collected according to the procedures outlined in the planning documents?

Yes _____ No _____ N/A

Problems encountered/corrective actions taken: ERT-7 was flooded and the dust caps did not prevent flooding of the lines, E.Zamek contacted and lines purged again to allow stabilization; ERT-4 exhibited very low water inside Water FLUTe, 30 gallons added but tagged DTW did not rise, E.Zamek contact and more water will be added to fully dilate liner.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/20/2016
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. Two water level meters; Two NJDEP certified Horiba U52 water quality meters; Four 1.75" QED Bladder Pumps with Teflon Bladders; One MP15 backpack controller; One MP50 compressor controller

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at traditional wells onsite (MW01A, MW11, MW12).

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No Problems encountered.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/21/2016
Field Team: Jonathan Ganz, Paul Trudell, Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. Two water level meters; Two NJDEP certified Horiba U52 water quality meters; Four 1.75" QED Bladder Pumps with Teflon Bladders; One MP15 backpack controller; One MP50 compressor controller

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site. H&S Audit and Technical Systems Audit performed by Erika Zamek.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at traditional wells onsite (MW02A, MW05, MW07, MW09, MW10).

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: MW03, MW04, and MW06 all had obstructions making a 1.75" QED bladder pump unable to fit down the well. PM was notified and MicroQED bladder pumps (0.75") were ordered to sample at a later date.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/22/2016
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: W to NW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. Two water level meters; Two NJDEP certified Horiba U52 water quality meters; Four 1.75" QED Bladder Pumps with Teflon Bladders; One MP15 backpack controller; One MP50 compressor controller

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at traditional wells onsite (MW03, MW04, MW08, MW09, MW10) and sampled FLUTe well MW15S Port 1 and Port 2.

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: MW06 bend in well riser was to great to fit the MicroQED bladder pump (0.75") down the well. Unable to collect a sample from this location.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/27/2016
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: W to NW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells onsite (MW14S Ports 2 and 3, MW14D Ports 1 through 3).

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: During purging of MW14S Ports 1 and 4 DNAPL was observed. MW14S Port 1 exhibited pin head sized droplets while MW14S Port 4 purged approximately 1/3 of a cup of DNAPL. Erika Zamek was contact and it was decided to not sample these ports. the DNAPL was transferred to a bottle and stored onsite until further notice.
~~NAPL was also observed in - MW14S Port 2 exhibited very few pinhead sized globules; MW14S Port 3 exhibited very few~~ pinhead sized globules; MW14D Port 2 exhibited 2-3 pea sized globules of NAPL; MW14D Port 3 exhibited a few pinhead sized globules. MW14D Port 1 no NAPL observed.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/28/2016
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: W to NNW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells onsite (MW16 Ports 1 through 7)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 12/29/2016
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: S to NW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells onsite (ERT1 Ports 1 through 8)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/03/2017
Field Team: Jonathan Ganz, Paul Trudell, Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: NE to ENE	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells onsite (FPW and MW15D Ports 1 and 2)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/04/2017
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold, Erika Zamek

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: W to WNW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells onsite (FPW Port 6, resample for PCB congeners and Dioxins at MW14S Ports 2 and 3, MW14D Ports 1 through 3, MW16 Port 7, resampled for VOCs at ERT1 Port 3). Erika Zamek conducted a Techincal Systems Audit on the purging and sampling of FLUTe wells.

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/05/2017
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: W to NW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells onsite ERT2 Ports 1, 2, 4-7 and MW17 Ports 1-3)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: ERT2 Port 3 exhibited recharge rates of approximately 3 hours. Contacted E.Zamek to relay information and determine course of action. Recharge rate too slow and port will not be sampled.

Time Project Manager Contacted: PM contacted multiple times throughout day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/06/2017
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold, Erika Zamek

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: N to NW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all non-personal vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells MW13 Ports 1 through 7 and MW18 Ports 1 and 2

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered

Time Project Manager Contacted: PM onsite

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/10/2017
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:S	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells ERT5 Ports 2, 3 and 5, and ERT6 Ports 1, 2, 3

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: Freezing purge lines encountered at ERT5 Ports 1 and 4. Unable to thaw lines. Move on to next port. Three-way valve on Nitrogen tank leaks causing tank to loose all nitrogen. Replace nitrogen tank with new full tank and make repairs to three-way valve.

Time Project Manager Contacted: PM contact multiple times throughout the day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/10/2017
Field Team: Jonathan Ganz
Paul Trudell
Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction: W to WSW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells ERT5 Ports 1 and 4, and ERT6 Ports 4, 5 and 6, and MW20 Ports 1, 2, 5 and 6.

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered.

Time Project Manager Contacted: PM contact multiple times throughout the day

Name: Jonathan Ganz Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.401A
Date: 01/12/2017
Field Team: Jonathan Ganz
Paul Trudell
Dave Cuomo, Aliza Gold

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:WSW	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: No subcontractors. One water level meter; Two NJDEP certified Horiba U52 water quality meters.

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Conducted Tailgate safety meeting, Conducted Vehicle Safety Check on all vehicles on site.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Conducted Groundwater sampling at FLUTe wells MW22 Ports 1 through 4, and MW20 Ports 3 and 4.

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No _____ N/A

Problems encountered/corrective actions taken: No problems encountered. Amy Darpinian (USACE) onsite to observe purging and sampling SOPs for FLUTe wells.

Time Project Manager Contacted: PM contact multiple times throughout the day

Name: Jonathan Ganz Signature:

Well Repair - June 2017

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.3002
Date: 6/26/16
Field Team: Advanced Drilling
Jordan Goldstein

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: Advancec Drilling. CME Drill Rig, hand tolls for well cap removal, and digging (if necessary).

Health and Safety Levels: (circle) **Level D**

D	Mod. D	C	B	A	

Summary of Health and Safety Activities: Heavy equipment, slips, trips, falls, and PPE.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)								

For actual calibration results, see field calibration forms.

Summary of Work Performed: Fixing damaged wells MW-03, MW-04, and MW-06.
Wells were successfully repaired
Off-site @ 12:15

All samples were collected according to the procedures outlined in the planning documents?

Yes N/A No

Problems encountered/corrective actions taken: NONE

Time Project Manager Contacted: NONE

Name: Jordan Goldstein Signature: JDG 1/29/2018

6/26/2016

Jordan Goldstein – LBG

Advanced Drilling

Cornel – Dubilier OU3 Well Repair Activities

8:00 – On-site

8:30 – MW-03 begin setup. Kink in well @ 3.5' bgs (sidewall narrowed)

8:40 – Rig on. Will attempt to widen/straighten with a 2" split spoon or a 5' drill rod (1.33" diameter).

8:45 – Using a 5' drill rod, hand set into well to assess exact depth of damage. Attaching drill rod to rig, to begin widening of well. Very slowly driving rod in the inner casing – Rod made it to approx. 3.5'- 4' before casing began to move. Stopped immediately and pulled rod. Sent rod down to asses again by hand. Rod getting caught up @ about 6' bgs. Driving by hand – casing is still being very slightly driven downward. Stopping and reassessing equipment.

9:00 – Attempting with a split spoon (2"). Able to send about 6-7 blows on split spoon – well driven approx. 2" downward. Seems that well was widened, the angle of well in the outer casing has straightened out.

9:06 – Well successfully fixed – straightened. Able to send tape measurer and water pump down well to bottom of well. approx.. 30.7' bgs.

9:10 – Mobilizing to MW-04.

9:30 – Opened MW-04. Small PVC riser removed from top of inner casing. Will send a 5' drill rod down well to approx. 14' – 15' bgs to assess damage. Drill rod advanced to 17' bgs with no snags. Will run rod down to bottom of well. Small knock @ 25' bgs while running 2" diameter split spoon attached to 1.33" diameter rods. Moved past very easily. Able to send split spoon and rods to nearly bottom of well, approx. 47'.

9:40 – Damage in MW-04 is very minimal, would not affect the placement of a normal pump. Placed cap back on well.

10:00 – Arrive @ MW-06. Sent measuring tape down to bottom of well. Used drill rod to asses. Drill rod manually set in well – caught up @ 4' bgs. Will fabricate tool to widen casing.

10:40 Toll fabricated. Attaching toll to drill rod. Will assess success of tool by very slowly driving into well casing using split spoon to drive tool (attached to split spoon rods). Tool and rods advanced and pulled from well with ease, no snags. Sending down a 2" diameter spilt spoon rod to assess if narrowed section has been widened. Able to drive rods without snag. Seemingly widened well casing.

10:55 – Able to send pump and tape measurer down well to approx. 27.9' bgs – no need to send to bottom as damage was previously observed @ 4' bgs.

11:30 – Activities complete – demobilizing equipment from site.

12:15 – Depart site

Damaged Well Summary
Cornell-Dubilier Electronics Superfund Site, OU3 - Groundwater
April 2017

Well	Depth (ft bgs)	Screened Inteval (ft bgs)		Pump Intake Depth (ft bgs)	Inner Casing Diameter (inches)	Inner Casing Material	Outer Casing Diameter (inches)	Outer Casing Material	Damage Depth (ft bgs)	Comment
		Top	Bottom							
MW-03	32	17	32	25	2	TP 304 S. Steel	10	Steel	3.5	Kink observed during video survey; the well can be sampled using a micro-pump
MW-04	49	29	49	39	2	TP 304 S. Steel	10	Steel	> 14	Damage too deep to assess during the video survey; the well can be sampled using a micro-pump
MW-06	44	29	44	37	2	TP 304 S. Steel	10	Steel	4	Pinch observed during video survey; well cannot be sampled in current condition.

Round 2: July and August 2017

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.07.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: 0700 Health and Safety Meeting Conducted: Reviewed hazards of working with FLUTe wells.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)								

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Purged: ERT-1, MW-14S, MW-14D, ,MW-15S, MW-15D, FPW, MW-16, ERT-2, MW-17, ERT-6, ERT-3, ERT-4

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: FPW: cracks in port fittings (ML2, ML5) developed in purging process. Working port fittings (ML3 → ML2), (MW4 → ML5) to complete purging and gauging process. Replacement parts ordered for long term fix.

Time Project Manager Contacted: 1700

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.12 05:49:10 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.10.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: G. Sherman (PIKA)

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: 0730 Health and Safety Meeting Conducted: Reviewed slip, trip and fall hazards

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)	✓		✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: FLUTe Wells Gauged: ERT-3, ERT-4, MW-13, MW-20, MW-21, MW-19, MW-24, MW-23, MW-25, MW-26, MW-27, MW-22

FLUTe Wells Purged: ERT-8, ERT-7, ERT-5, MW-18, MW-13, MW-20, MW-21, MW-19, MW-24, MW-23, MW-25, MW-26, MW-27, MW-22

Conventional Well Sampling: field blank, MW-05, MW-10

Samples Held Overnight: All Metals and VOCs

Conventional Well Gauging and PID: MW-01A, MW-02A, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-12

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 1700

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.12 05:49:10 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.11.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: G. Sherman (PIKA)

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed route to hospital, PPE, and safe sampling techniques

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: FLUTe Wells Gauged: ERT1, MW-15S, MW-15D, MW-14S, MW-14D, FPW, MW-16, MW-17, ERT-2, ERT-6, ERT-5, MW-18, ERT-7, ERT-8

Conventional Wells Sampled: MW-01A, MW-02A, MW-07, MW-08, MW-09, MW-11, MW12

Samples Held Overnight: All metals, VOCs, MW12

E. Zamek (LBG) onsite from 0900 to 1400 for field audit.

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: onsite

Name: PAUL TRUDELL Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.12.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: G. Sherman (PIKA)

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed heat stress symptoms.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

Conventional Wells Sampled: MW-03, MW-04, MW-06

Samples Held Overnight: none

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 13:30

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.13 06:12:35 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.13.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: G. Sherman (PIKA)

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed heat stress symptoms and CDE SSHP on Heat Stress Monitoring.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: ERT-6, MW-18

Samples Held Overnight: Metals and VOCs (ERT-6, MW-18)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 12:26

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@lbusiberger.com, c=US
Date: 2017.07.14 05:11:05 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.14.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: G. Sherman (PIKA)

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed safety protocol (slips, trips, falls, weather safety)

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: FPW

Samples Held Overnight: none

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 11:02, 14:57

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.16 19:21:29 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.17.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed heat stress symptoms and CDE SSHP on Heat Stress Monitoring.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: ERT-1 [8 ports], MW-22 [4 ports]

Samples Held Overnight: Metals, VOCs

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: E. Zamek was onsite from 08:30 to 16:30.

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.19 06:50:09 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.18.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed traffic safety and lifting techniques.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: ERT-2, MW-17

Samples Held Overnight: Metals, VOCs

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: ERT-2-Port 3: Very low purge volumes were recovered [3 purges (first purge at 07:59:40, last purge ending at 8:41:35) Purge volumes - 1st 3940 mL, 460 ml, 430 ml]

DTW at 10:49 = 18.92 fbtopf , DTW after full recharge = 55.56 f btopf. These hydraulic results indicate low hydraulic conductivity in this monitoring port.

After outlining these details with E. Zamek, the decision was made to skip sampling this port.

Time Project Manager Contacted: 08:43 (text messages), 11:51 (phone call)

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.19 06:27:07 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.19.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted:

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-16 (7 ports), ERt-4 (Ports 3 & 4)

Samples Held Overnight: none

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: ERT-4 liner water level was at a level comparable to the water level in the monitoring ports around 5 feet below PVC riser. To complete the sampling, the liner water level was topped up the maximum level (~1 foot below PVC riser) for the duration of the sampling. MW-16 (port 3) - a crack in the port assembly developed through the purging and sampling process. Nitrogen leakage was manageable but port assembly should be replaced for next round of sampling.

Time Project Manager Contacted: 11:51

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@loubberger.com, c=US
Date: 2017.07.23 16:46:54 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.20.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: discussed how to safely work with anticipated high humidity and temperatures.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-15S, MW-15D, ERT-4 (ports 1,2,5,6,7)
Samples Held Overnight: metals and VOCs

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: ERT-4: liner water level topped up through the course of the purging / sampling process.

Time Project Manager Contacted: 17:26, 17:42, 19:25

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.23 19:12:55 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.21.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed trip hazards (sampling tubes, manifold tubes). in our work place and measures that can be taken to minimize the risks.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-13 , ERT-5 (Ports 1-3)

Samples Held Overnight: none

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 10:56

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.22 08:15:12 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.24.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed weather hazards.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: ERT-5 (port 4,5,6), MW-20

Samples Held Overnight: metal and VOAs

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: none

Time Project Manager Contacted: 13:30 (Jeff Frederick), 14:17 (Jeff Frederick)

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.24 21:13:33 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.25.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: none

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed NAPL safety handling procedures.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓		✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: NAPL Sample: MW-14S, Port 4

FLUTe Wells Sampled: MW-14S, MW-14D

Samples Held Overnight: metals, VOCs, MW-14S (partial port 1)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: MW-14S Port 1: During the purge process, this port was flagged for low purge volumes that could be problematic in the sampling phase (0.6 to 1.1 L after waiting 15-20 min) (full purge Volume = 1.39 L). Contacted J. Frederick to discuss these details. Decision was made to sample this port as it is important for source zone characterization. Sampling took ~5.5 hours).

MW-14D: During the purge process, NAPL free-phase product were recovered. A NAPL sample was collected (3 -40 mL vials unpreserved) in place of the groundwater sample.

Time Project Manager Contacted: Erika Zamek - 13:34, 14:30 15:09 Jeff Frederick - 10:17

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.27 19:29:57 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.26.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: none

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Refreshed setting up the work zone for productivity and safety.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: ERT-7 (5 ports), ERT-3 (6 ports)

Samples Held Overnight: none

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: ERT-3 Port 4 - [Purge Volume = 5.48 L] The first, second, and third purges yielded 4.66 L, 0.110 L, 0.090L respectively. Further trouble shooting showed that this port blows nitrogen at below the recommended sampling pressure. This indicated very slow recharge. The gauging event indicated that the port does recharge (not faulty check valve) albeit at a slow rate. This signaled troubles for sampling this port in-sync with the other ports of ERT-3. Project manager was contacted to discuss the situation. Decision was made to abandon this port.

Time Project Manager Contacted: Erika Zamek - 12:59, 14:55, 17:58

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.07.27 05:36:13 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.27.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site: none

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Identified workplace hazards for Water FLUTe sampling and discussed how to mitigate these threats.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-23 (Ports 1-9)

Samples Held Overnight: metals, VOCs from 7.27.2017

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: Erika Zamek - 14:46

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.08.04 14:25:53 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.28.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: stressed importance of setting up a safe work space.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-21

Samples Held Overnight: none

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 17:49

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.08.01 05:36:26 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 07.31.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed heat stress and road safety related issues

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-24, MW-27

Samples Held Overnight: metals and VOC samples from MW-24 and MW-27

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 13:03

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.08.04 14:22:30 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.01.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
E. Zamek (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Stressed regular safety protocol and importance of communication in the work space.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-19

Samples Held Overnight: MW-19, MW-24, MW-27 for VOC and Metals analysis

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: MW-19 Port 2: Brass port fitting split during purging / sampling process. Replacement port will be installed once obtained.

Time Project Manager Contacted: onsite - all day

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@loubberger.com, c=US
Date: 2017.08.03 05:58:21 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.02.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: reviewed anticipated weather and safety procedures.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: ERT-8, MW-26

Samples Held Overnight: ERT-8. MW-26, MW-19, MW-24, MW-27 for VOC and Metals analysis

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: ERT-8 Port 4: Port yielded minimal water during purging process. Earlier during gauging process, this port was also mostly dry. Decision was made to remove this port from the sampling program.

Time Project Manager Contacted: 16:42

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@lbusiberger.com, c=US
Date: 2017.08.04 14:21:40 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.03.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: reviewed anticipated weather and safety procedures.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed:

FLUTe Wells Sampled: MW-25
Samples Held Overnight: none
End of groundwater sampling program.

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 12:18, 17:51

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@lbusiberger.com, c=US
Date: 2017.08.04 14:21:10 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.04.2017
Field Team: P.Trudell (LBG)
D.Cuomo (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Proper lifting techniques were reviewed.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: Tent was dissembled. Box truck was loaded with coolers, sample management supplies, sampling supplies. Two members of the field team emptied the box truck contents into USACE off-site storage. Extra pallets were removed from site, cardboard & plastics removed off-site for recycling. Rental box truck rental returned at the end of day.

WATER FLUTe sampling tubes labeled: ERT-1, MW-14S, MW-14D, MW-15S, MW-15D, FPW

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken: The tent fly was wet from overnight rain therefore it could not be put directly into storage. The fly was laid out to dry over the course of the day. At end of day it was packaged up with the tent hardware for delivery to USACE during the following week.

Time Project Manager Contacted: 14:13

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.08.07 15:36:27 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.08.2017
Field Team: A. Gold (LBG)
D.Cuomo (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)				✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: 0630: LB onsite, 0645: Tailgate safety meeting conducted, 0700: LB begins labeling Water FLUTe sampling tubes. Each sampling tube was labeled with a marker [according to the FLUTe color coding system] and covered with clear heat shrink tubing. 1100: Visited Angelo's Ice to return freezer key and settle account, 1120: Visited FedEx to pickup returned coolers. 1130: Resumed labeling, 2030: End of labeling, LB offiste. WATER FLUTe sampling tubes labeled: ERT-6, MW-18, ERT-5, ERT-8, ERT-7, ERT-2, MW-17, MW-13, ERT-4, ERT-3, MW-21, MW-20, MW-22, MW-19, MW-24, MW-23, MW-27, MW-26, MW-25

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 18:00

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.08.09 11:23:52 -04'00'

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.10.2017
Field Team: P.Trudell (LBG)
E. Zamek (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted : emphasized anticipated bug/mosquito and heat anticipated risks.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: 0700: LBG onsite in South Plainfield preparing for sampling. 0800: Health and Safety meeting. 0815-1500: Sampling MW-26 & MW-25. 1500-1700: Sample Management. 1700: LBG offsite for sample shipping and end of day.

Wells Re-sampled: MW-26 (VOCs: Ports 1-6, SVOCs: Ports 1-3), MW-25 (VOCs: Ports 1-6, SVOCs: Ports 4-6)

Samples Held Overnight on Ice: MW-26 (VOCs), MW-25 (VOCs)

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: E. Zamek onsite through the course of the day

Name: Paul Trudell Signature:

DAILY QUALITY CONTROL REPORT

Site: CDE – OU3
Project No.: 2001764.019.02.402B
Date: 08.14.2017
Field Team: P.Trudell (LBG)
A. Gold (LBG)

Weather (circle)

	Bright Sun	Clear	Overcast	Rain	T-Storm	Snow
Temp:	0 to 32	32 to 50	50 to 70	70 to 85	> 85	
Wind:	Still	Gusty	Moder.	High	Direction:	
Humidity:	Dry	Moder.	Humid			

Subcontractors and Equipment on Site:

Health and Safety Levels: (circle)

D	Mod. D	C	B	A

Summary of Health and Safety Activities: Health and Safety Meeting Conducted: Reviewed NAPL safety procedures for NAPL management and proper lifting techniques.

Instrument Used: (circle)	PID	LEL	pH	Cond	Therm.	Turbidity	DO	ORP
Calibrated: (check)			✓	✓	✓	✓	✓	✓

For actual calibration results, see field calibration forms.

Summary of Work Performed: 0600: LBG on-site for sampling activities. 0700: Purged NAPL product from MW-14S (port 4). 0800 to 1015: Re-purged and sampled ERT-8 for VOCs (ports 1, 2,3,5,6,7) 1300: Returned USACE equipment to Morristown. 1500: Returned to site for waste management and return of sampling van. 1700: LBG offsite, end of BLSR round 2

All samples were collected according to the procedures outlined in the planning documents?

Yes ✓ No

Problems encountered/corrective actions taken:

Time Project Manager Contacted: 1053, 1533, 1642

Name: Paul Trudell Signature: Paul Trudell

Digitally signed by Paul Trudell
DN: cn=Paul Trudell, o=Louis Berger, ou, email=ptrudell@louisberger.com, c=US
Date: 2017.08.14 10:26:39 -04'00'

Appendix B – Utility Clearance Report

HAGER-RICHTER
GEOSCIENCE, INC.

GEOPHYSICAL SURVEY
CORNELL- DUBILIER ELECTRONICS SUPERFUND SITE
SOUTH PLAINFIELD, NEW JERSEY

Berger Project 2001764

Prepared for:

The Louis Berger Group, Inc.
565 Taxter Road, Suite 510
Elmsford, New York 10523

Prepared by:

Hager-Richter Geoscience, Inc.
846 Main Street
Fords, New Jersey 08863

File 15AM46
April, 2016

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HAGER-RICHTER
GEOSCIENCE, INC.

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April 5, 2016
File 15AM46

Erika Zamek
Senior Geologist
The Louis Berger Group, Inc
565 Taxter Road, Suite 510
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Tel: 914.798.3722
Fax: 914.592.1734
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RE: Geophysical Services
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Berger Project 2001764

Dear Ms. Zamek:

In this letter, we report the results of a geophysical survey conducted in February and March, 2016 by Hager-Richter Geoscience, Inc. (H-R) at the above referenced site for The Louis Berger Group, Inc. (Berger). The scope of the project and areas of interest (AOIs) were specified by Berger. The work was conducted under Technical Subcontract 20PO004952 for Berger Project 2001764.

INTRODUCTION

The site is designated as the Cornell-Dubilier Electronics Superfund Site located in South Plainfield, New Jersey. The general location of the Site is shown in Figure 1. The site is an active Superfund site. Berger plans to conduct drilling activities as part of an environmental investigation at the site.

Berger was interested in determining whether subsurface utilities, underground structures, or other obstructions are present at the proposed locations of four (4) bedrock monitoring wells prior to commencement of drilling activities. The wells will be drilled at four separate locations. Figure 2 shows the approximate locations of the AOIs. The wells were identified as:

- MW-24 : located in the road on the west side of Freed Place between Merchants Avenue and Van Fleet Avenue. The area of interest was approximately 30 feet by 20 feet in size.

- MW-25 : located on a walking path in the northeast corner of Spring Lake Park near the southern terminus of Mellon Street. The area of interest was approximately 20 feet by 20 feet in size.

- MW-26 : located along the eastern edge of the parking lot for the South Plainfield Recreational Pool on Cady Lane. The area of interest was approximately 20 feet by 20 feet in size.

- MW-27 : located in the road near the eastern terminus of Michael Street. The area of interest was approximately 40 feet by 30 feet in size.

OBJECTIVE

The objective was to search for, and if detected, to locate possible buried utilities, underground structures, and other subsurface obstructions in the accessible portions of approximately 20-ft by 20-ft areas of interest centered on the proposed locations of four borings.

THE SURVEY

Alexis Martinez and Amanda Fabian of Hager-Richter conducted the field operations on February 4, 2016 and March 25, 2016. The project was coordinated with Ms. Erika Zamek of Berger . Mr. Peter Lamont, also of Berger, specified the AOIs and was present for the duration of the field operations.

The geophysical survey was conducted using three complementary geophysical methods: time domain electromagnetic induction (EM61), ground penetrating radar (GPR), and precision utility location (PUL). The EM61 data were acquired at approximately 8-inch intervals along lines spaced 5 feet apart in the accessible portions of the AOIs. The EM survey detects and outlines areas containing buried metal. However, the EM method cannot provide information on the type of objects causing EM anomalies.

GPR data were acquired along traverses oriented in two mutually perpendicular directions and spaced no more than 5 feet apart across the accessible portions of the specified AOIs. The GPR method is useful for detecting both metallic and non-metallic subsurface objects. The PUL method was used to search for subsurface utilities in the vicinity of the areas of interest by searching for signals from active electric lines and by tracing utilities from direct connections to nearby surface features such as fire hydrants, valves and conduits.

The locations of detected utilities were marked on the ground at the time of the survey based on the in-field interpretation of the geophysical data. As the survey was completed, the

detected features that had been marked on the ground were shown to the Berger field representative. The geophysical data were subsequently reviewed in the office. Sketches of the results for MW-26 and MW-27 were transmitted to Berger via email on February 9, 2016. Sketches of the results for MW-24 and MW-25 were provided to Berger via email on March 28, 2016.

EQUIPMENT

EM61. For the EM61 survey, we used a Geonics EM61-MK2 time domain electromagnetic induction metal detector. The EM61 is a time-domain electromagnetic induction type instrument designed specifically for detecting buried metal objects. An air-cored 1-meter by ½-meter transmitter coil generates a pulsed primary magnetic field in the earth, thereby inducing eddy currents in nearby metal objects. The decay of the eddy current produces a secondary magnetic field that is sensed by two receiver coils, one coincident with the transmitter and one positioned 40 cm above the main coil. By measuring the secondary magnetic field after the current in the ground has dissipated but before the current in metal objects has dissipated, the instrument responds only to the secondary magnetic field produced by metal objects. Four channels of secondary response are measured in mV and are recorded on a digital data logger. The system is generally operated by pushing the coils as a wagon with an odometer mounted on the axle to trigger the data logger automatically at approximately 8-inch intervals.

GPR. The GPR survey was conducted using a Geophysical Survey Systems, Inc. UtilityScan DF digital dual-frequency system using both 300 MHz and 800 MHz antennas and 60 ns[1] and 30 ns time windows, respectively. The UtilityScan DF system acquires data with the two antennae simultaneously, allowing for more rapid surveying without decreasing data density or quality. The system includes a survey wheel that triggers the recording of the data at fixed intervals, thereby increasing the accuracy of the locations of features detected along the survey lines.

GPR uses a high-frequency electromagnetic pulse (referred to herein as “radar signal”) transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. The travel times of the radar signal can be converted to *approximate* depth below the surface by correlation with targets of known depths, including stratigraphic horizons, pipes, cables, and other utilities, or by using handbook values of velocities for the materials in the subsurface. The acquisition of GPR data was monitored in the field on a graphic recorder and the real time images were immediately available for field use. The GPR data were also recorded digitally for subsequent

[1] ns, abbreviation for nanosecond, 1/1,000,000,000 second. Light and the GPR signal require about 1 ns to travel 1 ft in air. The GPR signal requires about 3.5 ns to travel 1 ft in unsaturated sandy soil.

processing. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

PUL. The PUL survey was conducted using a precision electromagnetic pipe and cable locator, Radiodetection RD7000 series. The RD7000 series consists of separate transmitter and receiver. The system can be used in "passive" and "active" modes to locate buried pipes by detecting electromagnetic signals carried by the pipes. In the "passive" mode, only the receiver unit is used to detect signals carried by the pipe from nearby power lines, live signals transmitted along underground power cables, or very low frequency radio signals resulting from long wave radio transmissions that flow along buried conductors. In the "active" mode of operation, the transmitter is used to induce a signal on a target pipe, and the receiver is used to trace the signal along the length of the pipe. Our system uses a 10W transmitter.

LIMITATIONS OF THE METHODS

HAGER-RICHTER GEOSCIENCE, INC. MAKES NO GUARANTEE THAT ALL SUBSURFACE TARGETS OF INTEREST WERE DETECTED IN THIS SURVEY. HAGER-RICHTER GEOSCIENCE, INC. IS NOT RESPONSIBLE FOR DETECTING SUBSURFACE TARGETS THAT NORMALLY CANNOT BE DETECTED BY THE METHODS EMPLOYED OR THAT CANNOT BE DETECTED BECAUSE OF SITE CONDITIONS. GPR SIGNAL PENETRATION MAY NOT BE DEEP ENOUGH TO DETECT SOME TARGETS. HAGER-RICHTER GEOSCIENCE, INC. IS NOT RESPONSIBLE FOR MAINTAINING FIELD MARKOUTS AFTER LEAVING THE WORK AREA. BERGER UNDERSTANDS THAT MARK-OUTS MADE DURING INCLEMENT WEATHER OR IN AREAS OF HIGH PEDESTRIAN OR VEHICULAR TRAFFIC MAY NOT LAST.

Field mark-outs. Utilities detected by the geophysical methods at the time of the survey are marked in the field, and the operator makes every attempt, field conditions permitting, to detect and mark as many utilities as possible at the time of survey. Adverse weather and site conditions (rain, snow, snow and soil piles, uneven surfaces, high traffic, etc.) can hamper in-field interpretation. Utility mark-outs made on wet pavement, snow, snow piles, gravel surfaces, or in active construction zones may not last. H-R is not responsible for maintaining utility mark-outs after leaving the work area.

EM61. All electromagnetic geophysical methods, including the EM method used here, are affected by the presence of power lines and surface metal objects (steel sided buildings, dumpsters, vehicles, railroad tracks, reinforced concrete, etc.). Where such are present, the

effects of materials in the subsurface may be masked, and firm conclusions about subsurface conditions cannot be made.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a metal object, and the electromagnetic method is excellent for such purposes. Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- a cache of drums, UST, automobile, white goods, etc.?). Although the EM61 data cannot be used to *identify* buried metal objects, they provide excellent guides to the identification of some objects. For example, buried metal utilities produce anomalies with lengths many times their widths.

GPR. There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities. GPR surveys inside buildings may be severely constrained by space limitations and interference from above-grade structures.

The electrical conductivity of the ground determines the attenuation of the GPR signals, and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small, possibly due to construction details or deeply corroded metal in the target, then the reflection may be too weak to recognize and the target can be missed. In many cases, plastic, clay, asbestos concrete (transite), brick-lined, stone-lined, and other non-metallic utilities cannot be detected.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target. The GPR operator controls the spacing between lines, and the design of the survey is based on the dimensions of the smallest feature of interest. Targets with dimensions smaller than the spacing between GPR survey lines can be missed.

PUL. The PUL equipment cannot detect non-metallic utilities, such as pipes constructed of vitrified clay, transite, plastic, PVC, fiberglass, and unreinforced concrete, when used in passive mode alone. Such pipes can be detected if a wire tracer is installed with access to such tracer for transmission of a signal or where access (such as floor drains and clean-outs) permits insertion of a device on which a signal can be transmitted.

In some, but not all, cases, the subsurface utility designation equipment cannot detect metal utilities reliably under reinforced concrete because the signal couples onto the metal reinforcing in the concrete. Similarly, the method commonly cannot be used adjacent to grounded metal structures such as chain link fences and metal guardrails.

In congested areas, where several utilities are bundled or located within a short distance, the signal transmitted on one utility can couple onto adjacent utilities, and the accuracy of the location indicated by the instrument decreases.

RESULTS

The geophysical survey was conducted using EM61 and GPR methods across the accessible portions of the specified AOIs. The PUL method was also used to track utilities present in the AOIs. Figure 2 shows the limits of the EM survey areas, locations of the GPR traverses, and the integrated interpretation of the geophysical data.

Apparent GPR signal penetration was fair with two-way travel-time reflections received from approximately 30 to 50 ns. Based upon handbook time-to-depth conversions for the GPR signal in average soils, the GPR signal penetration is estimated to have been about 3 - 5 feet at all four locations.

The EM and GPR surveys detected linear anomalies at the locations of proposed monitoring wells MW-24 and MW-27. The anomalies are attributed to possible utilities whose location was confirmed with the PUL method. No other EM anomalies were detected at any of the four proposed well locations.

Several utilities were detected at the proposed location of MW-24. Gas lines were detected along the west and south edges of the AOI. ***The gas line that was detected along the west side of the area of interest conflicts with (i.e., is located within three feet of) the proposed MW-24 location***. ***The Berger site representative was verbally informed of the utility conflict for MW-24 at the time of survey.*** An unknown utility was also detected along the east edge of the AOI. The locations of detected utilities are shown on Figure 2 and were marked in field at the time of the survey. Although located outside of the area, a water line marked by others was detected and confirmed in a grassy area approximately 3 feet east of the AOI.

Water lines were detected near the proposed location of MW-27. The water lines are located in the northern and western portions of the AOI. Several unidentified buried objects were also detected. The locations of detected utilities and unidentified buried objects are shown on Figure 2 and were marked in field at the time of the survey. ***The Berger site representative was verbally informed of the possible utility conflict for MW-27 at the time of survey.*** No utilities or other subsurface obstructions were detected at the proposed locations of MW-25 or MW-26.

Whether other non-metallic subsurface utilities or subsurface obstructions are present at depths greater than the depth of GPR signal penetration (approximately 3-5 feet) in any of the four survey areas cannot be determined on the basis of the geophysical data.

CONCLUSIONS

Based on the geophysical survey performed by Hager-Richter Geoscience at the Cornell-Dubilier Electronics Superfund Site in South Plainfield, New Jersey for Berger, we conclude that:

- A gas main line conflicts with (i.e., is located within three feet of) the proposed location of MW-24. A gas service line and an unidentified possible utility were also detected at the proposed location of MW-24.

- Water lines were detected at the proposed location of MW-27.

- No utilities or other subsurface obstructions were detected at the proposed locations of MW-25 or MW-26.

- *Whether other non-metallic subsurface utilities or subsurface obstructions are present at depths greater than the depth of GPR signal penetration (approximately 3-5 feet) cannot be determined on the basis of the geophysical data.*

LIMITATIONS ON THE USE OF THIS REPORT

This letter report was prepared for the exclusive use of The Louis Berger Group, Inc. (Client). No other party shall be entitled to rely on this Report or any information, documents, records, data, interpretations, advice or opinions given to Client by Hager-Richter Geoscience, Inc. (Hager-Richter) in the performance of its work. The Report relates solely to the specific project for which Hager-Richter has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of Hager-Richter. Any unpermitted use by Client

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Hager-Richter has used reasonable care, skill, competence and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by Hager-Richter should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, Hager-Richter makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

If you have any questions or comments on this letter report, please contact us at your convenience. We look forward to working with you again in the future.

Sincerely yours,
HAGER-RICHTER GEOSCIENCE, INC.

Alexis Martinez
Senior Geophysicist

Dorothy Richter, P.G.
President

Attachments: Figures 1- 2

APPROXIMATE SCALE (feet)

0 600 1200

LOCATION

NOTE:

Modified from Google Earth Pro aerial photograph.

Figure 1
General Site Location
Cornell–Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

File 15AM46	April, 2016

HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

MW-24

MW-25

MW-26

MW-27

N

LEGEND

- GPR TRAVERSE
- APPROXIMATE LIMITS OF EM SURVEY AREA
- G — GAS LINE
- W — WATER LINE
- ? — POSSIBLE UTILITY – MARKED IN FIELD
- × UNIDENTIFIED BURIED OBJECT
- PROPOSED BORING
- MH MANHOLE

SCALE (feet)

0 20 40

NOTE:

Modified from Google Earth Pro aerial photograph.

Figure 2
Boring Clearance
Cornell–Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

File 15AM46	April, 2016

HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

Appendix C – Geophysical Logging Report

HAGER-RICHTER
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TELEPHONE (732) 661-0555
FAX (732) 661-0123

BOREHOLE GEOPHYSICAL LOGGING - DATA REPORT
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
SOUTH PLAINFIELD, NEW JERSEY

Prepared for:

Louis Berger Group, Inc
565 Taxter Road, Suite 510
Elmsford, New York 10523

Prepared by:

Hager-Richter Geoscience, Inc.
846 Main Street
Fords, New Jersey 08863

File 15AM46
July, 2016

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Tadpole	Structure Category (Symbol Color)	Description
	Fracture Rank 1 (Light Blue)	Minor Fracture - not distinct and may not be continuous around the borehole
	Fracture Rank 2 (Blue)	Intermediate Fracture - distinct and continuous around the borehole with little or no apparent aperture
	Fracture Rank 3 (Red)	Major Fracture - distinct and continuous around the borehole with apparent aperture

Figure 1. Key to bedrock structure categories.

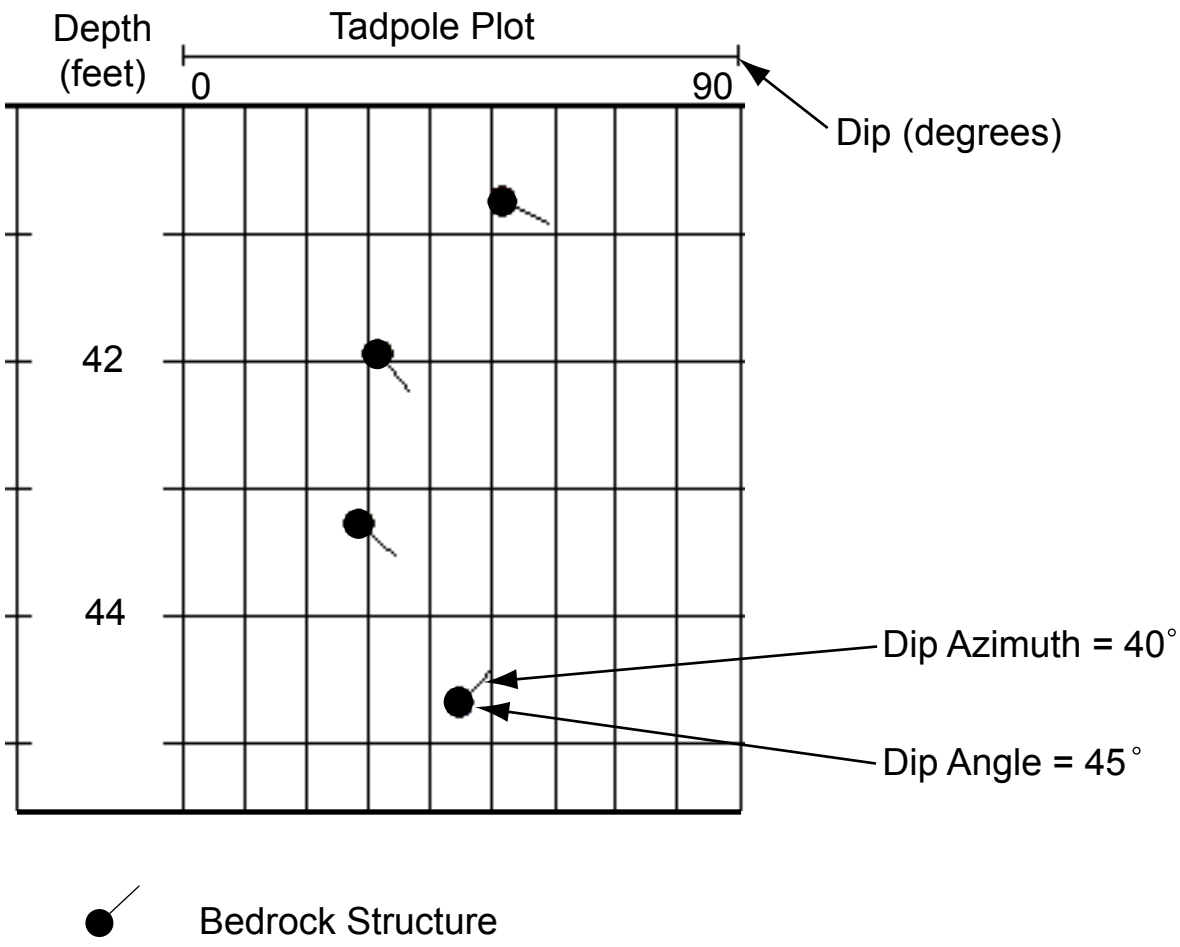

Figure 2. Tadpole plot explanation. The orientation of the bedrock structures is graphically displayed by a tadpole consisting of a circle, the head, and a line, the tail. The position of the head, left to right on the tadpole plot, gives the dip angle of the structure. The left side of the track indicates a dip angle of 0°, and the right side of the track indicates a dip angle of 90° from horizontal. The orientation of the tail gives the dip azimuth of the structure and can be read like a compass. The tail pointing directly up is 0°, north.

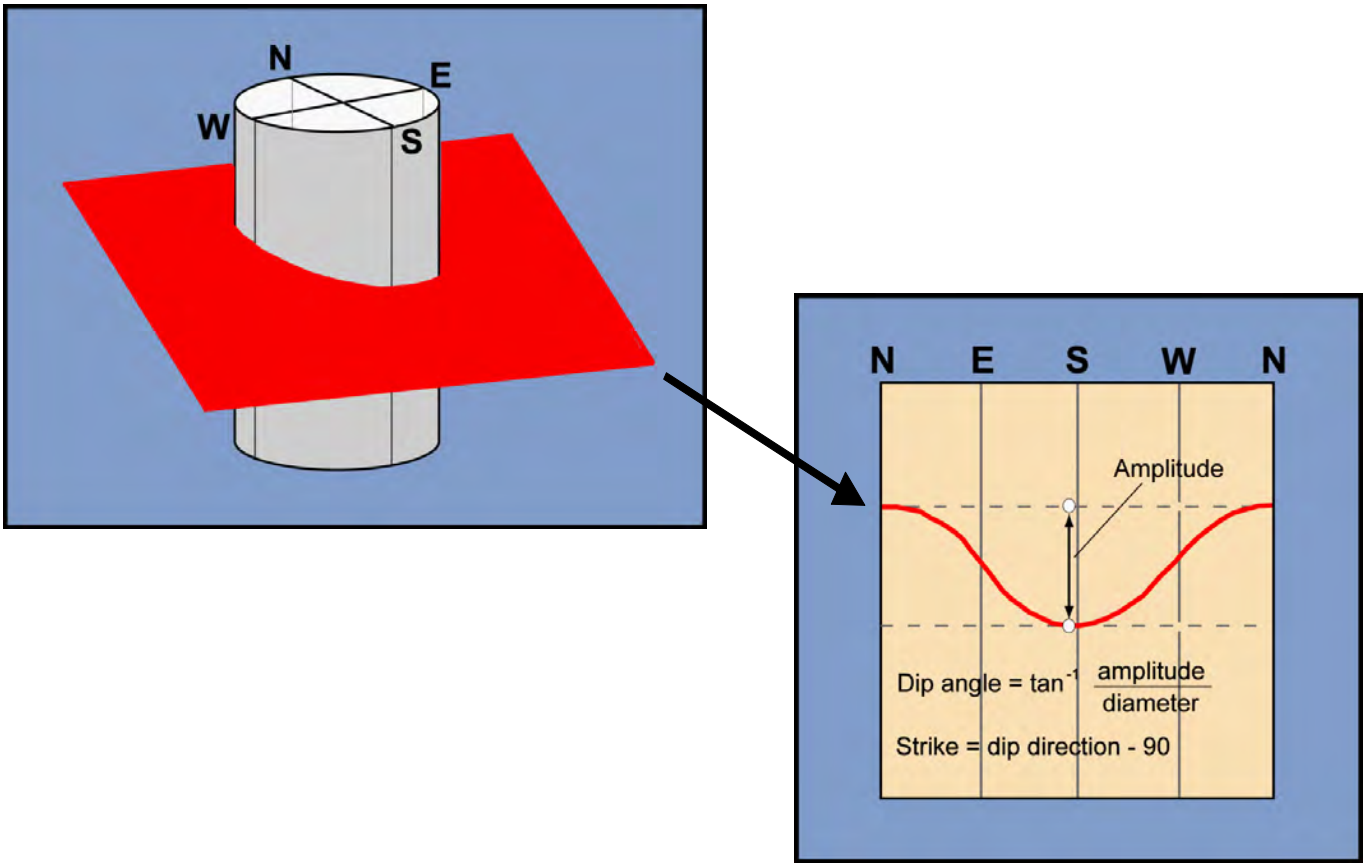

Figure 3. Televiewer explanation. The image on the left depicts a planar structure in red, such as a fracture or bedding plane, intersected by a borehole. The image on the right depicts the same structure unwrapped as it would be displayed in an optical televiewer (OTV) or acoustic televiewer (ATV) log.

Figure modified from: Garfield, R.L., Day-Lewis, F.D., Gray, M.B., Johnson, C.D., Williams, J.H. and Day-Lewis, A.D.F., 2003, Fractured-Rock Aquifer Characterization within a Regional Geologic Context: Results from the Bucknell University Hydrogeophysics Test Site, GSA Northeastern Section, 38th Annual Meeting, Paper No. 25-19.

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MW-24 - BOREHOLE GEOPHYSICAL LOGS

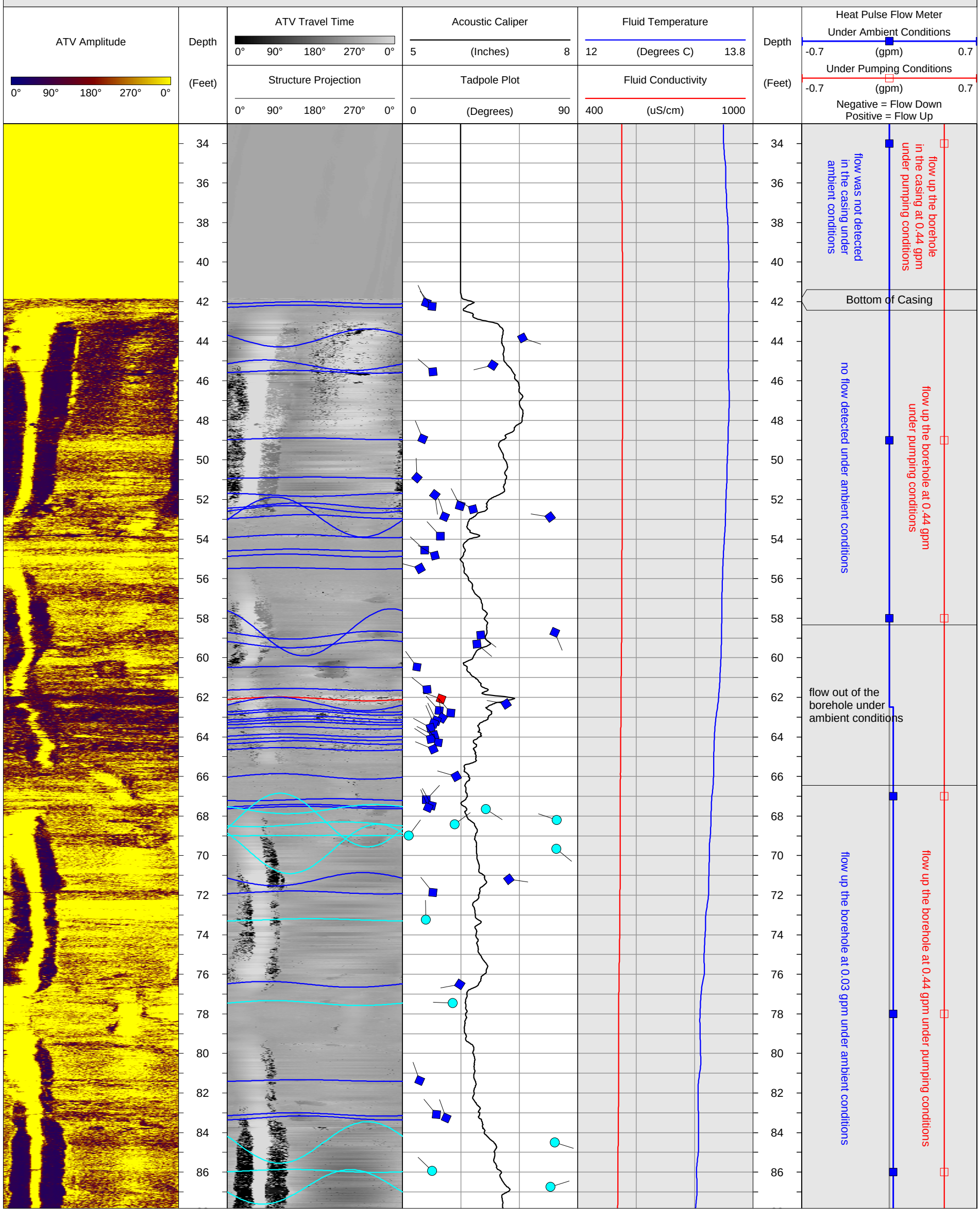
DATE(S) LOGGED: May 18 & 19, 2016

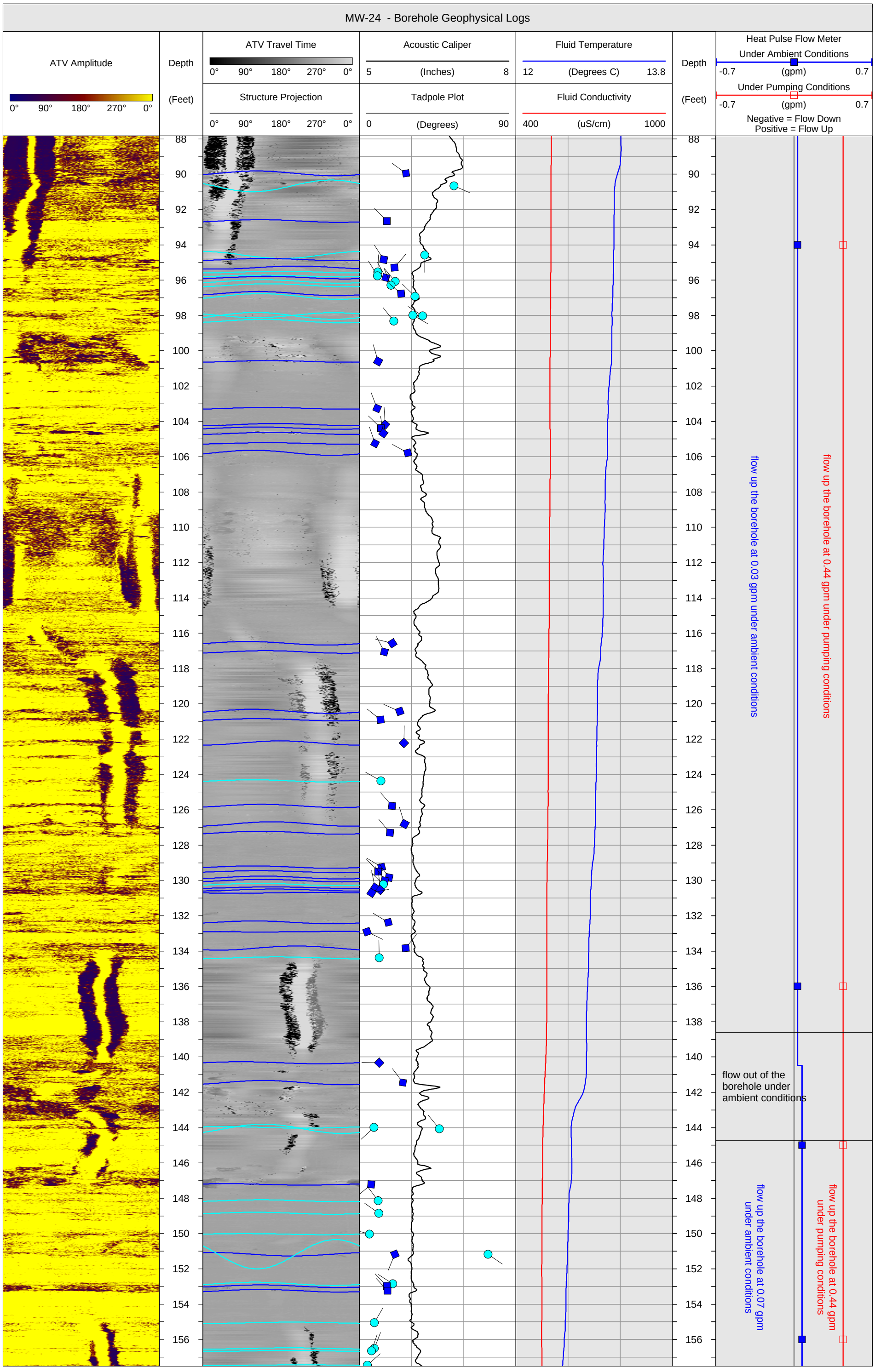
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
LOGGING GEOPHYSICIST(S):	Nick DeCristofaro & Mikko Aarnio	TOP OF CASING:	0.8 Feet Below the Top of the Concrete Pad
CLIENT REP(S) ON-SITE:	David Cuomo	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield	WATER LEVEL DEPTH:	12.6 Feet

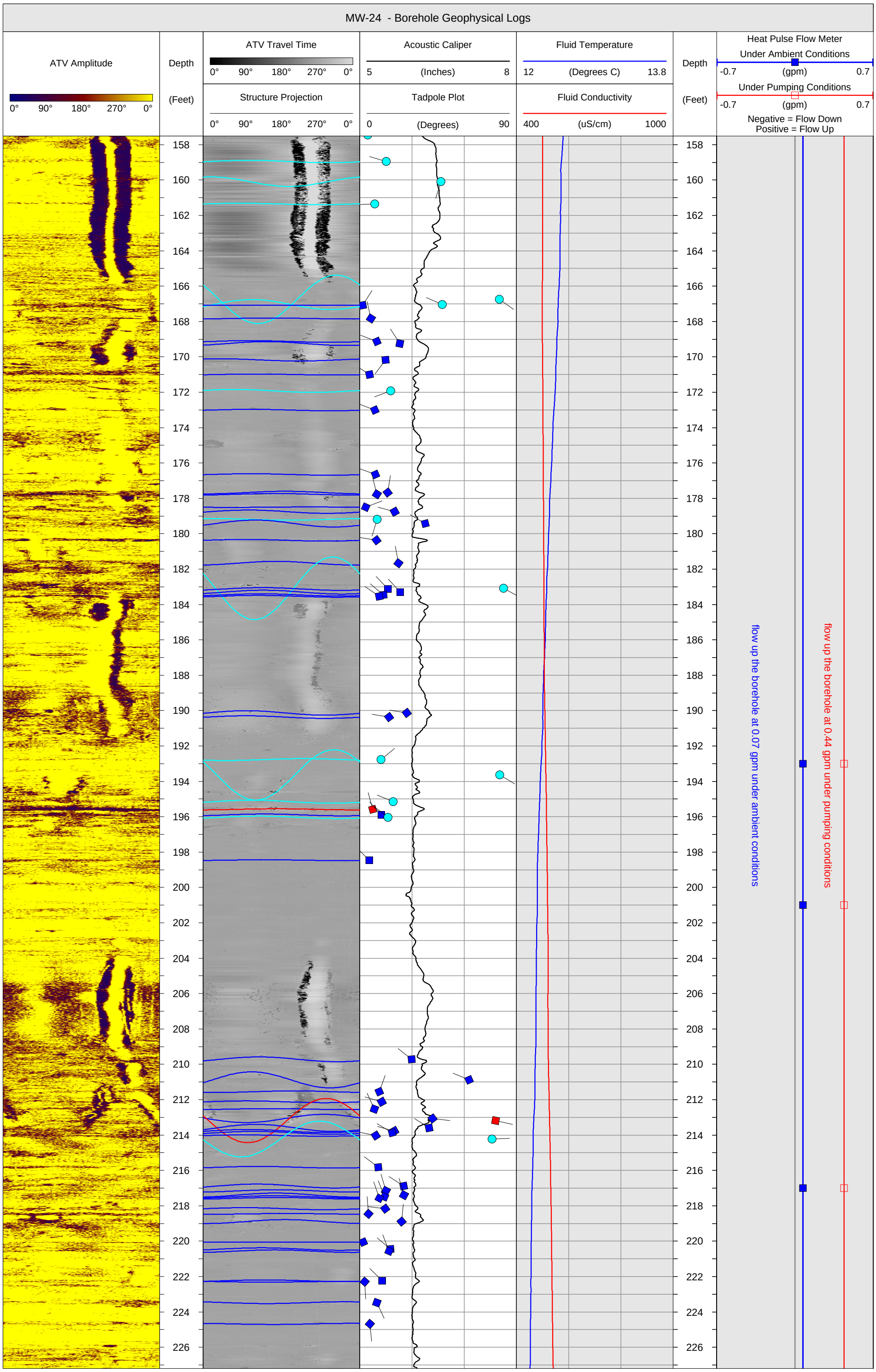
STRUCTURE LEGEND

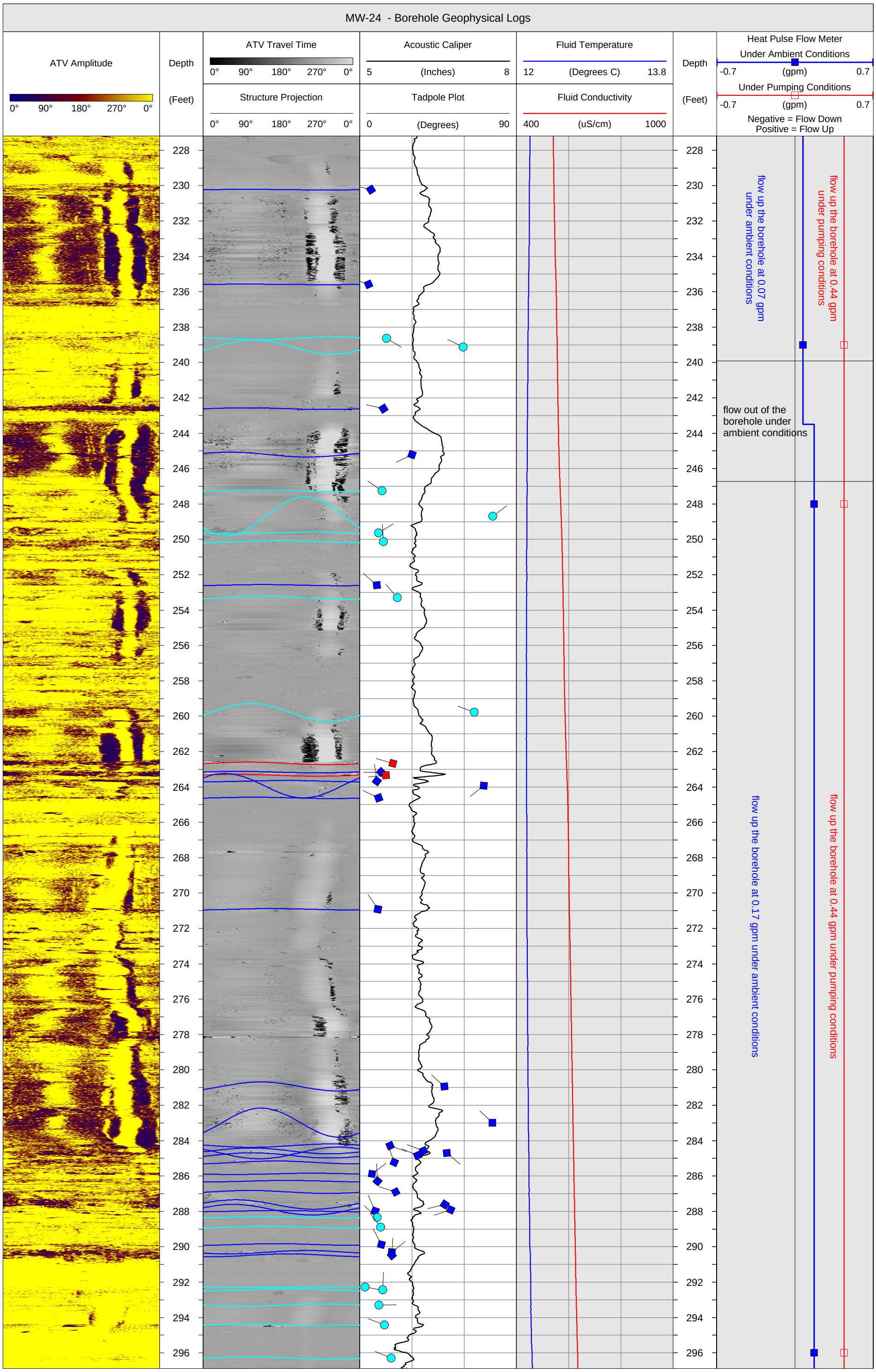
Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

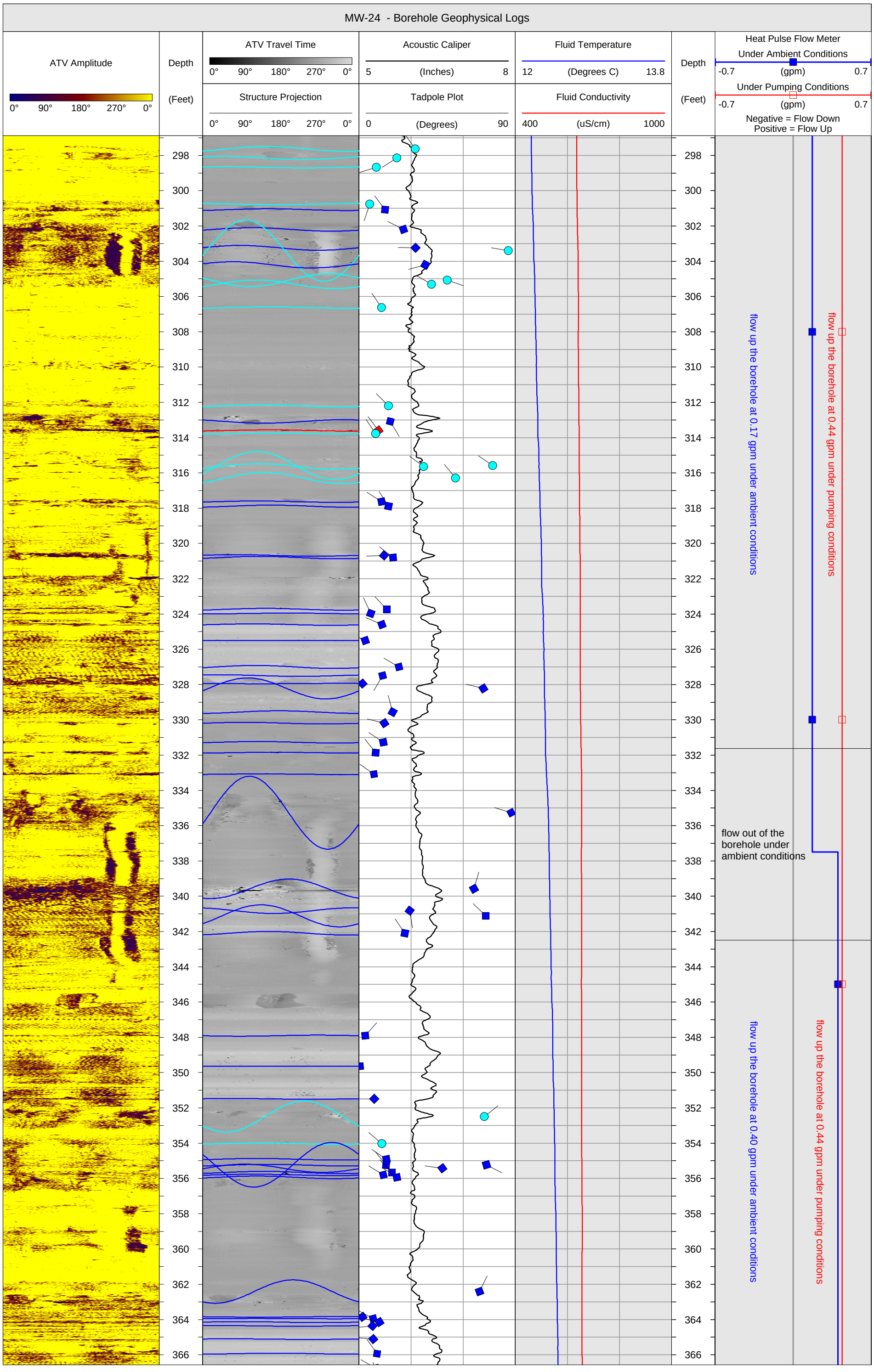
MW-24 - Borehole Geophysical Logs

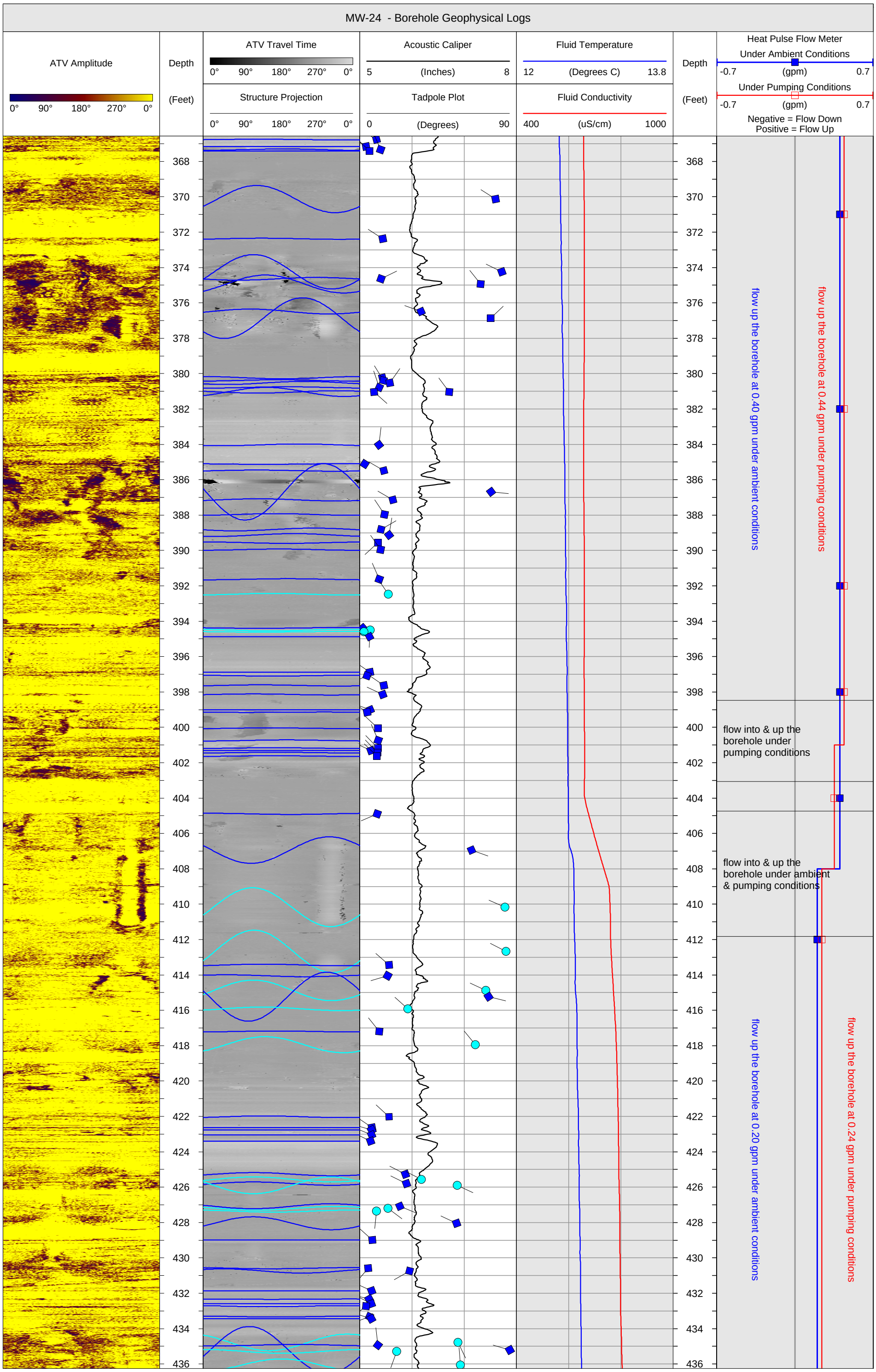


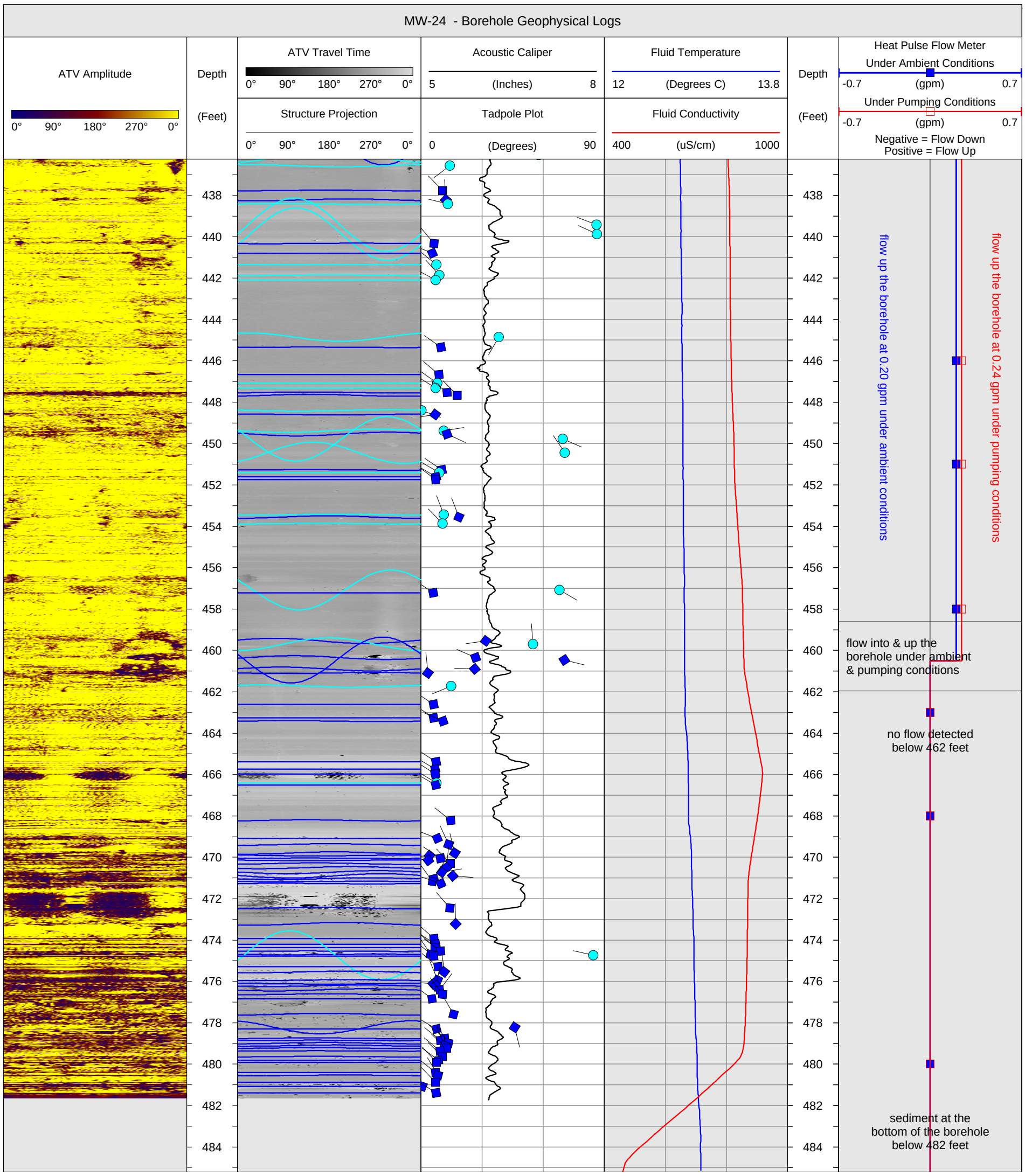

MW-24 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
12 (Degrees C) 13.8
Fluid Conductivity
400 (uS/cm) 1000
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.03 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions
flow out of the borehole under ambient conditions
flow up the borehole at 0.07 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions


MW-24 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
12 (Degrees C) 13.8
Fluid Conductivity
400 (uS/cm) 1000
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.07 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions


MW-24 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
12 (Degrees C) 13.8
Fluid Conductivity
400 (uS/cm) 1000
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.07 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions
flow out of the borehole under ambient conditions
flow up the borehole at 0.17 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions


MW-24 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
12 (Degrees C) 13.8
Fluid Conductivity
400 (uS/cm) 1000
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.17 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions
flow out of the borehole under ambient conditions
flow up the borehole at 0.40 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions


MW-24 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
12 (Degrees C) 13.8
Fluid Conductivity
400 (uS/cm) 1000
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
368
370
372
374
376
378
380
382
384
386
388
390
392
394
396
398
400
402
404
406
408
410
412
414
416
418
420
422
424
426
428
430
432
434
436
flow up the borehole at 0.40 gpm under ambient conditions
flow up the borehole at 0.44 gpm under pumping conditions
flow into & up the borehole under pumping conditions
flow into & up the borehole under ambient & pumping conditions
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.24 gpm under pumping conditions


MW-24 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
12 (Degrees C) 13.8
Fluid Conductivity
400 (uS/cm) 1000
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.24 gpm under pumping conditions
flow into & up the borehole under ambient & pumping conditions
no flow detected below 462 feet
sediment at the bottom of the borehole below 482 feet

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MW-25 - BOREHOLE GEOPHYSICAL LOGS

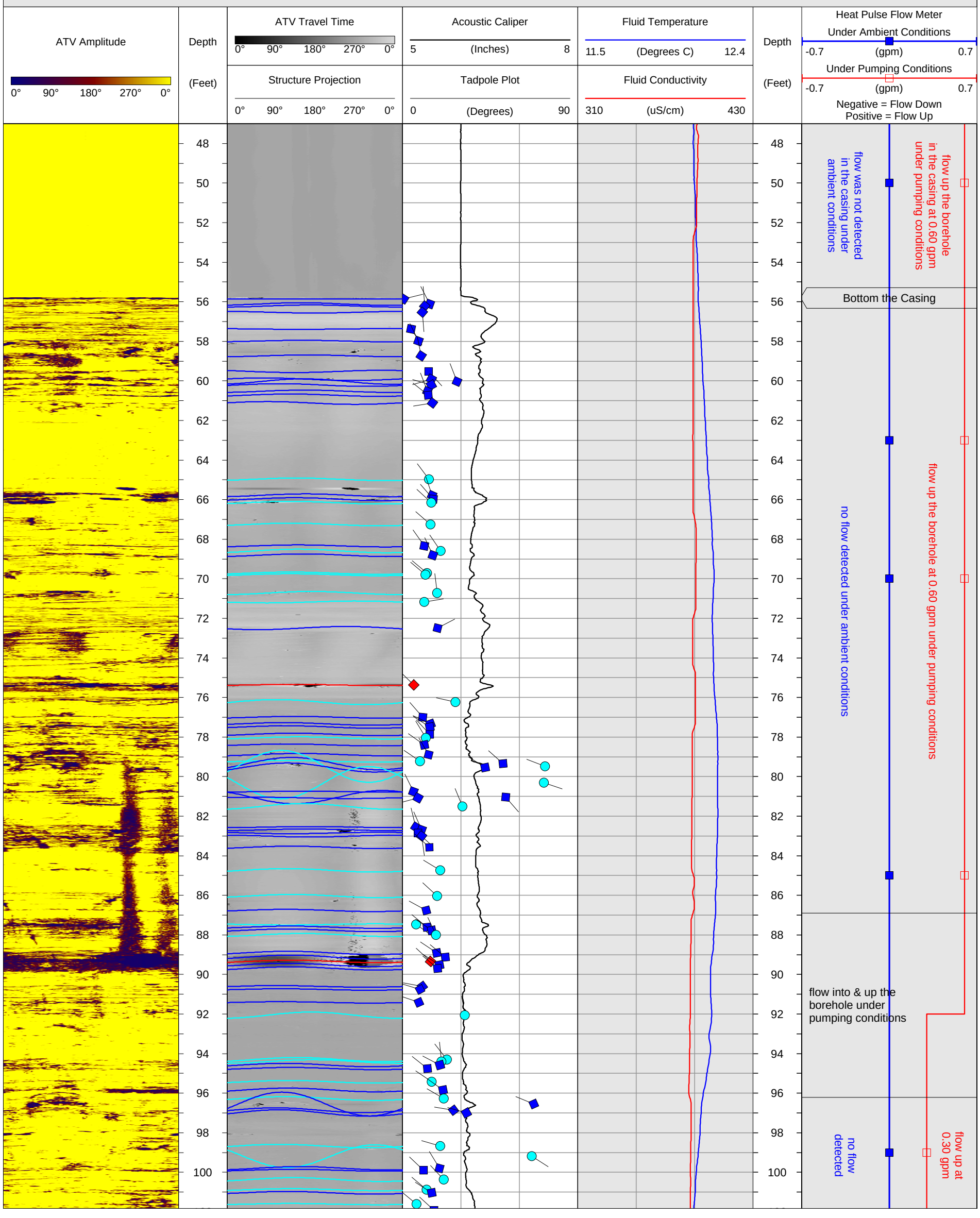
DATE(S) LOGGED: May 16, 2016

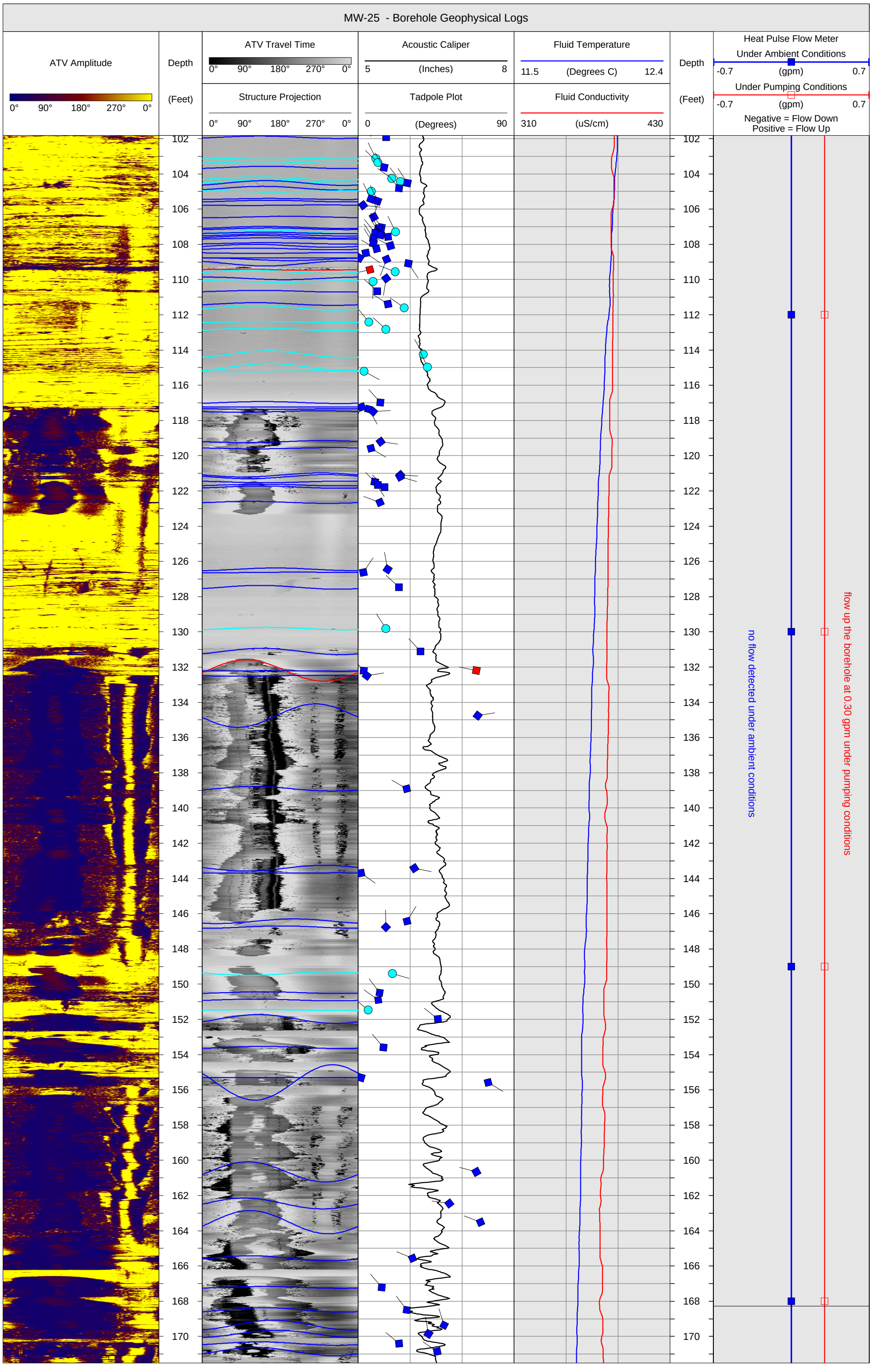
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
LOGGING GEOPHYSICIST(S):	Nick DeCristofaro & Jan-Richard Gaszynski	TOP OF CASING:	1.4 Feet Above the Top of the Concrete Pad
CLIENT REP(S) ON-SITE:	David Cuomo	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield	WATER LEVEL DEPTH:	17.8 Feet

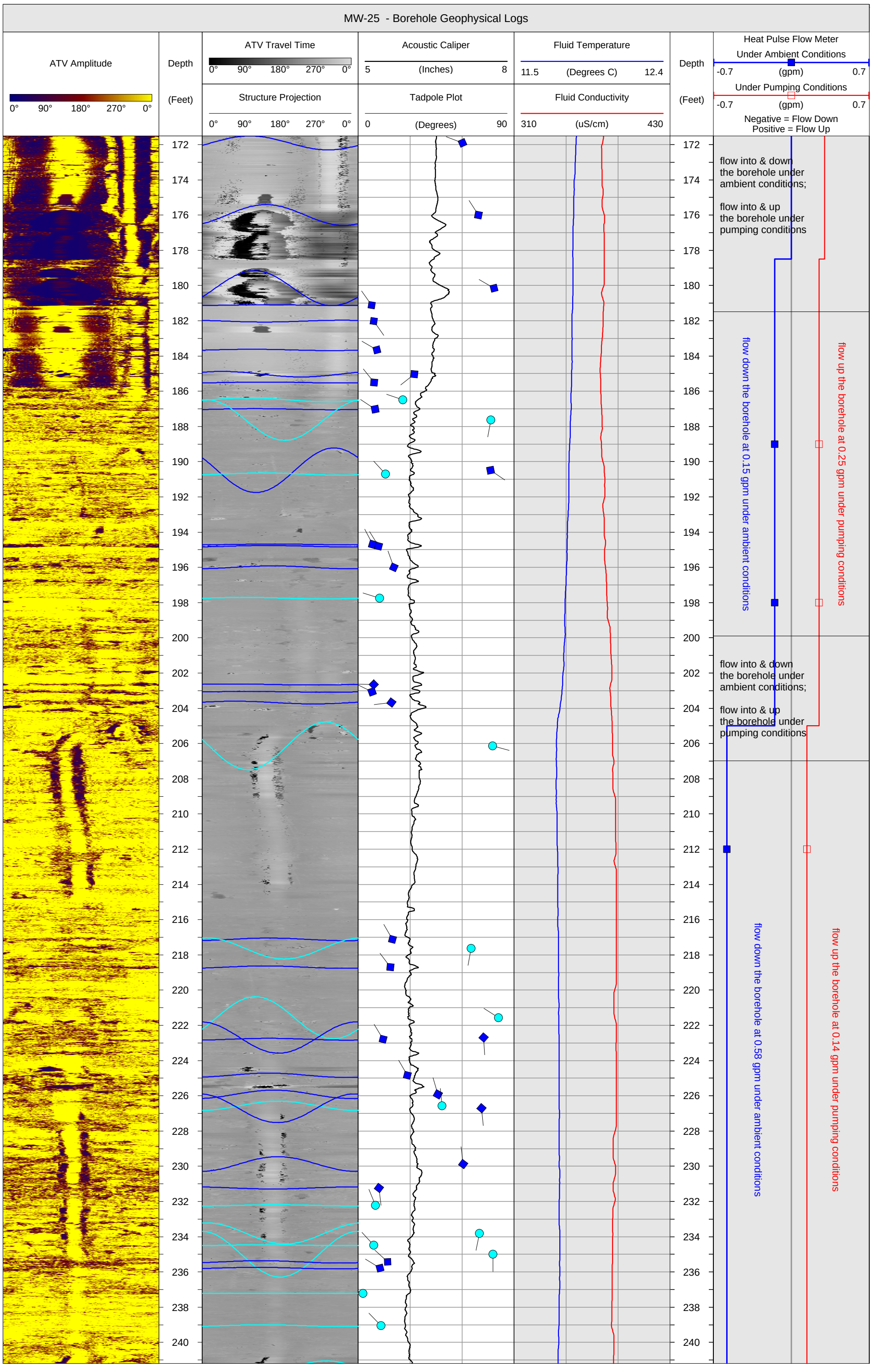
STRUCTURE LEGEND

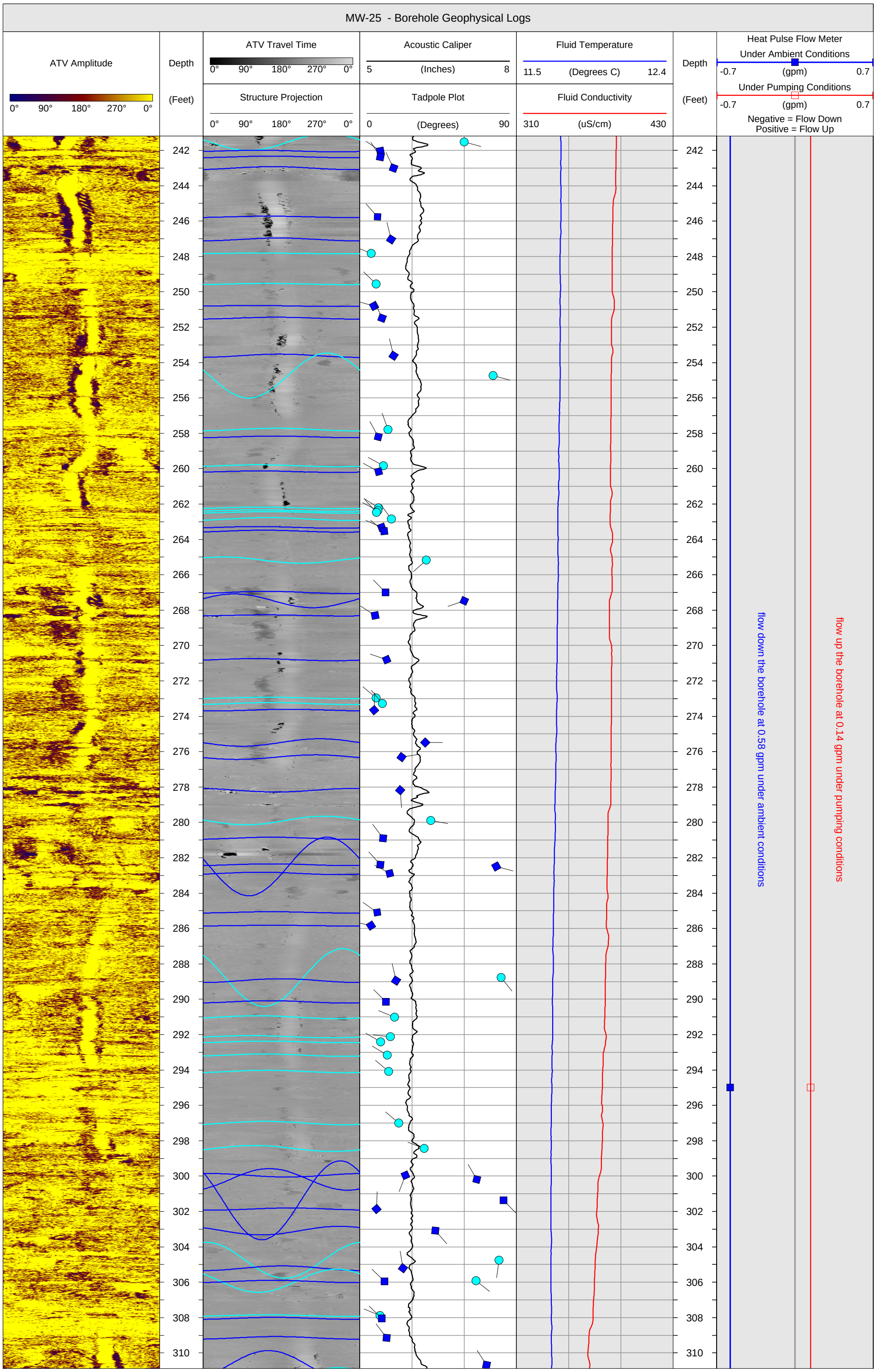
Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

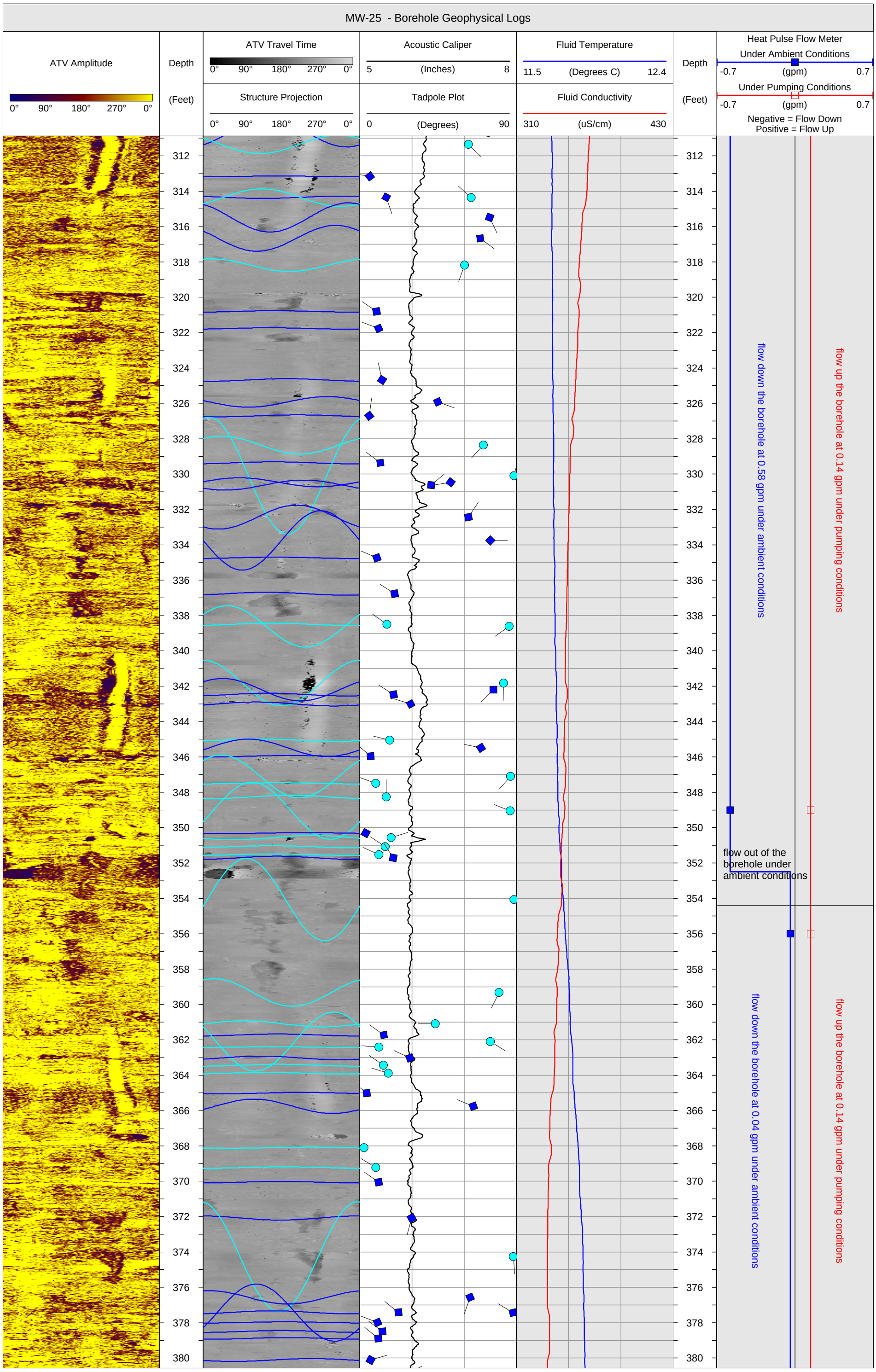
MW-25 - Borehole Geophysical Logs

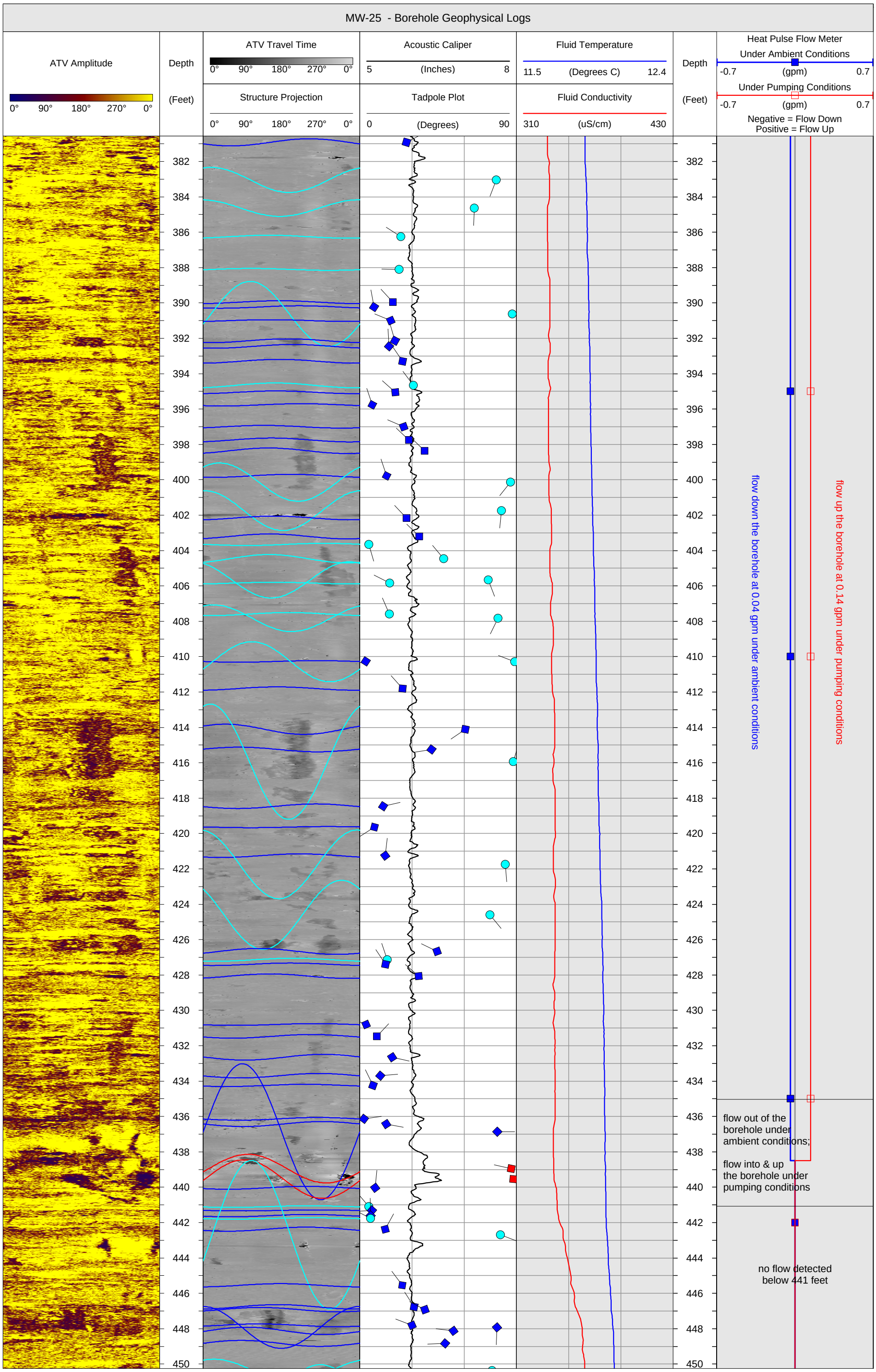


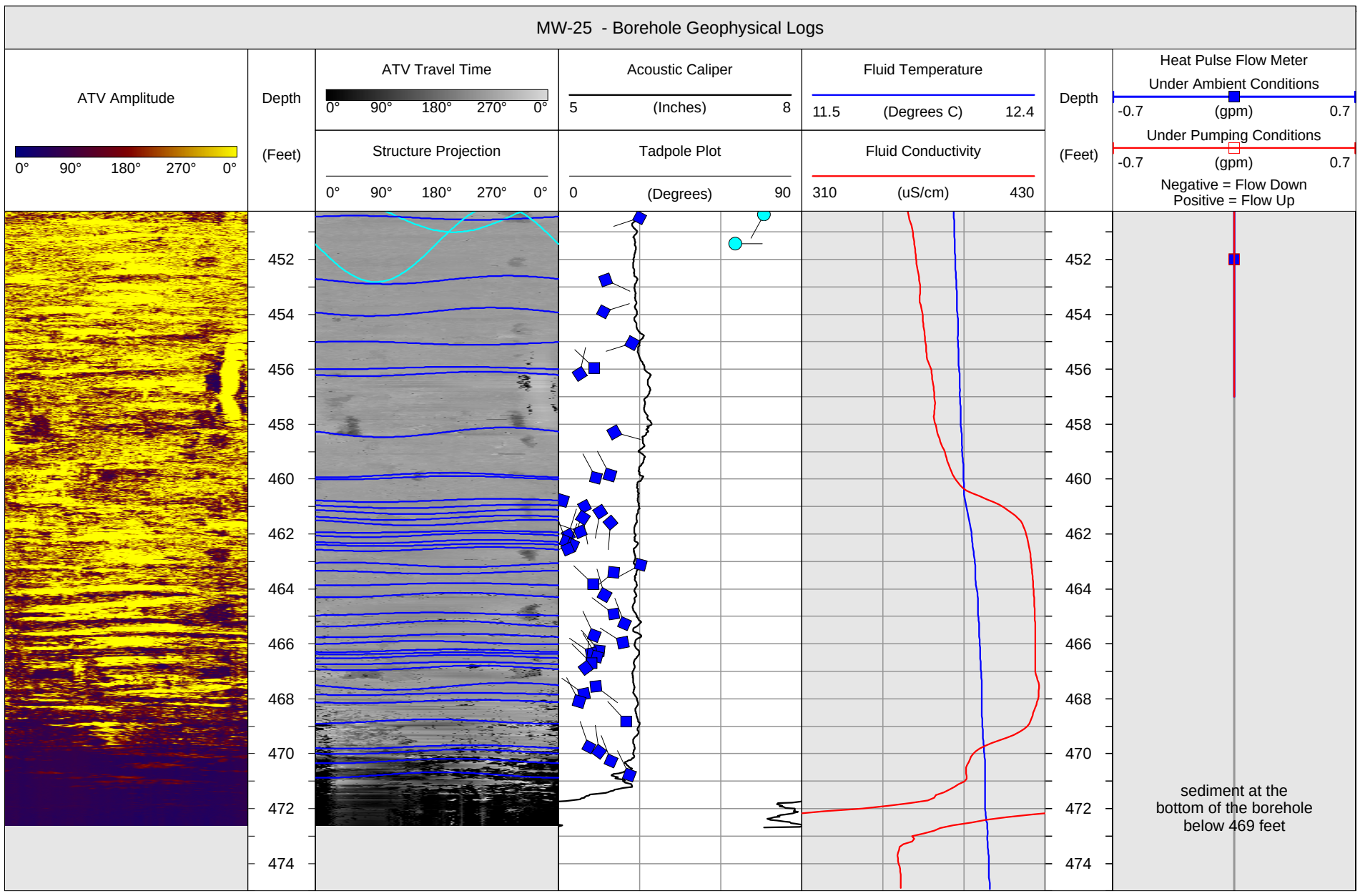

MW-25 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.5 (Degrees C) 12.4
Fluid Conductivity
310 (uS/cm) 430
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.30 gpm under pumping conditions


MW-25 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.5 (Degrees C) 12.4
Fluid Conductivity
310 (uS/cm) 430
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow into & down the borehole under ambient conditions;
flow into & up the borehole under pumping conditions
flow down the borehole at 0.15 gpm under ambient conditions
flow up the borehole at 0.25 gpm under pumping conditions
flow into & down the borehole under ambient conditions;
flow into & up the borehole under pumping conditions
flow down the borehole at 0.58 gpm under ambient conditions
flow up the borehole at 0.14 gpm under pumping conditions
172 174 176 178 180 182 184 186 188 190 192 194 196 198 200 202 204 206 208 210 212 214 216 218 220 222 224 226 228 230 232 234 236 238 240


MW-25 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.5 (Degrees C) 12.4
Fluid Conductivity
310 (uS/cm) 430
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow down the borehole at 0.58 gpm under ambient conditions
flow up the borehole at 0.14 gpm under pumping conditions


MW-25 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.5 (Degrees C) 12.4
Fluid Conductivity
310 (uS/cm) 430
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow down the borehole at 0.58 gpm under ambient conditions
flow up the borehole at 0.14 gpm under pumping conditions
flow out of the borehole under ambient conditions
flow down the borehole at 0.04 gpm under ambient conditions
flow up the borehole at 0.14 gpm under pumping conditions


MW-25 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.5 (Degrees C) 12.4
Fluid Conductivity
310 (uS/cm) 430
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow down the borehole at 0.04 gpm under ambient conditions
flow up the borehole at 0.14 gpm under pumping conditions
flow out of the borehole under ambient conditions;
flow into & up the borehole under pumping conditions
no flow detected below 441 feet


MW-25 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.5 (Degrees C) 12.4
Fluid Conductivity
310 (uS/cm) 430
Depth
(Feet)
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
452
454
456
458
460
462
464
466
468
470
472
474
sediment at the
bottom of the borehole
below 469 feet

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MW-26 - BOREHOLE GEOPHYSICAL LOGS

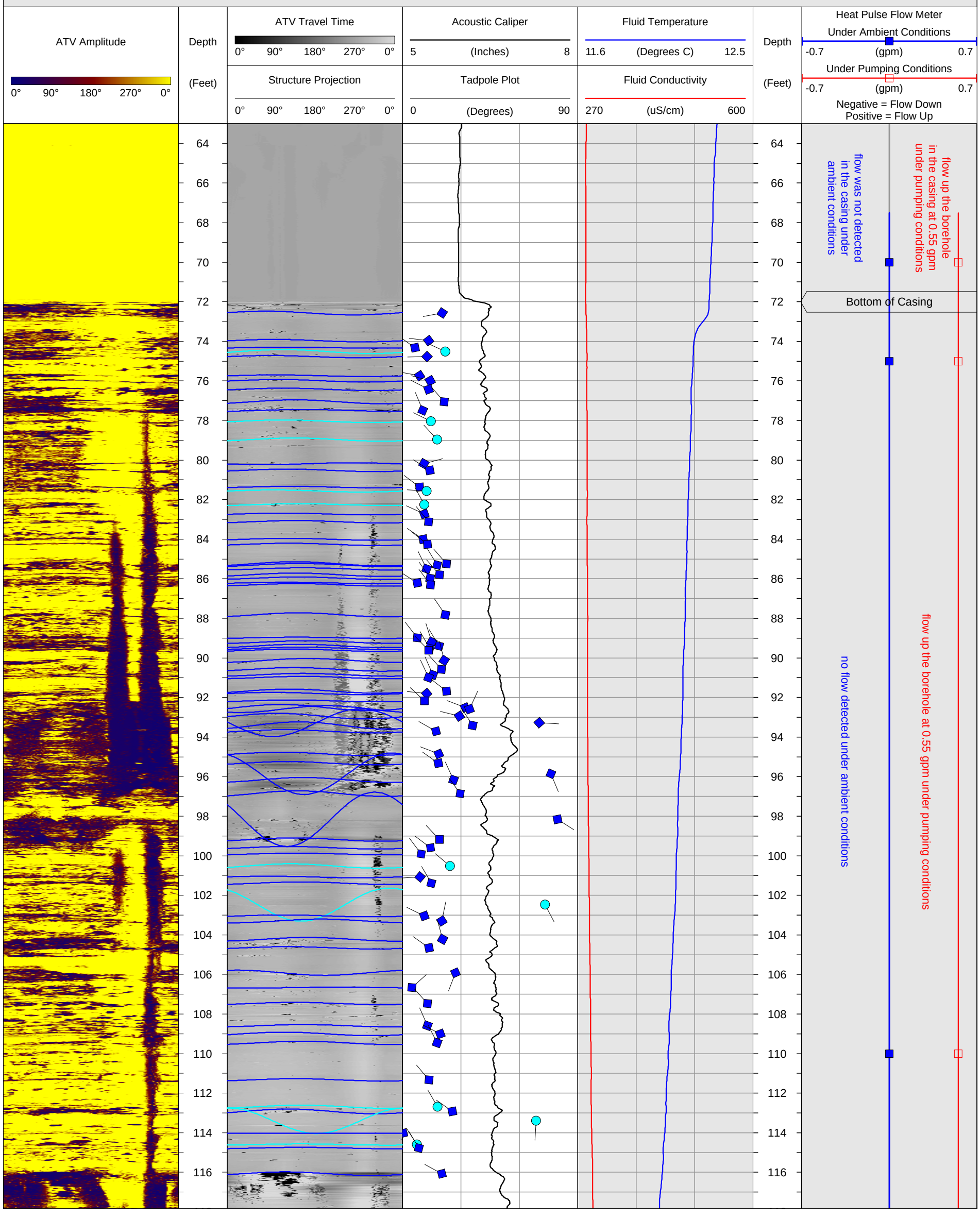
DATE(S) LOGGED: May 17, 2016

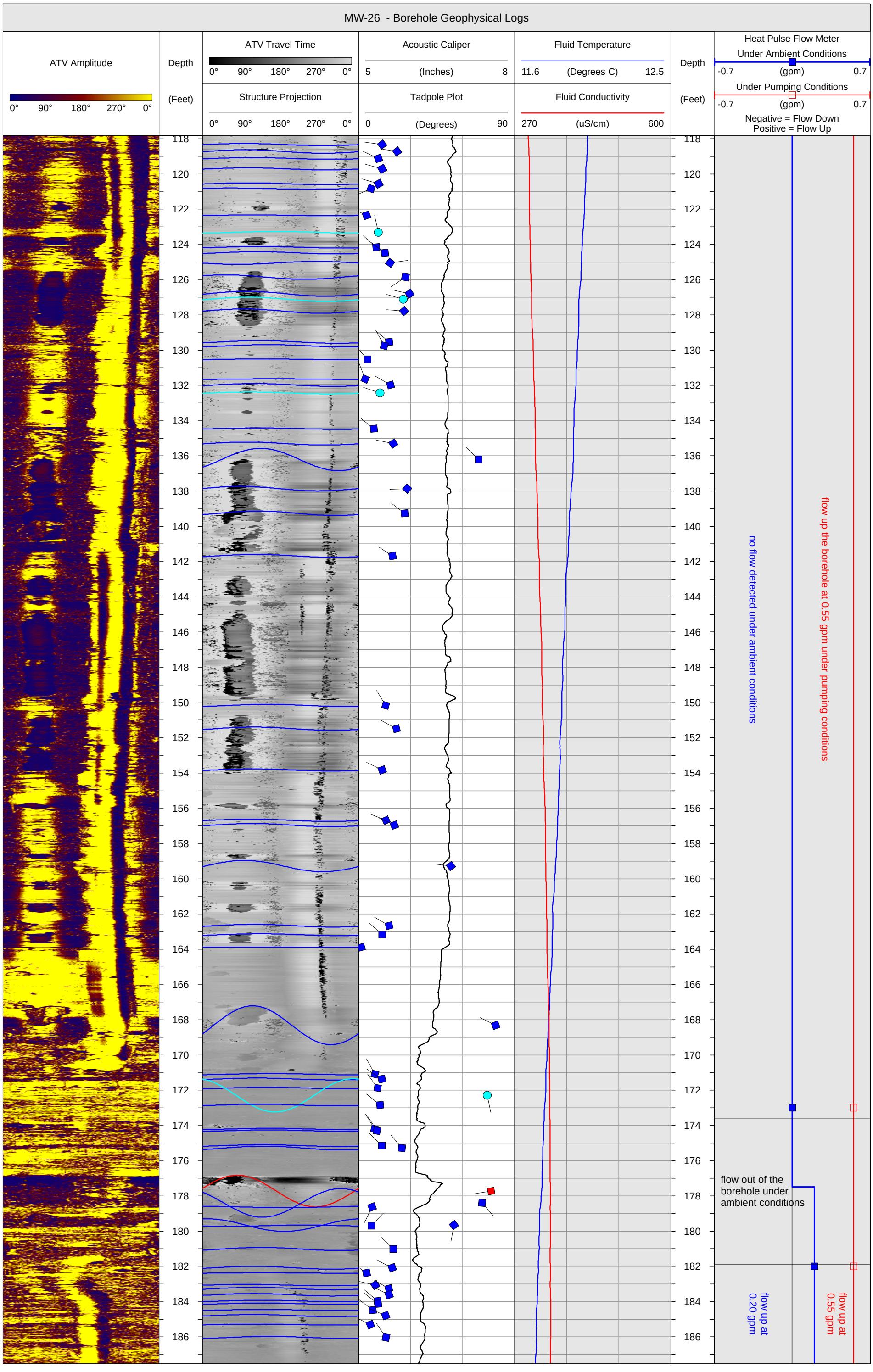
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
LOGGING GEOPHYSICIST(S):	Nick DeCristofaro & Mikko Aarnio	TOP OF CASING:	0.4 Feet Above the Top of the Concrete Pad
CLIENT REP(S) ON-SITE:	David Cuomo	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield	WATER LEVEL DEPTH:	19.2 Feet

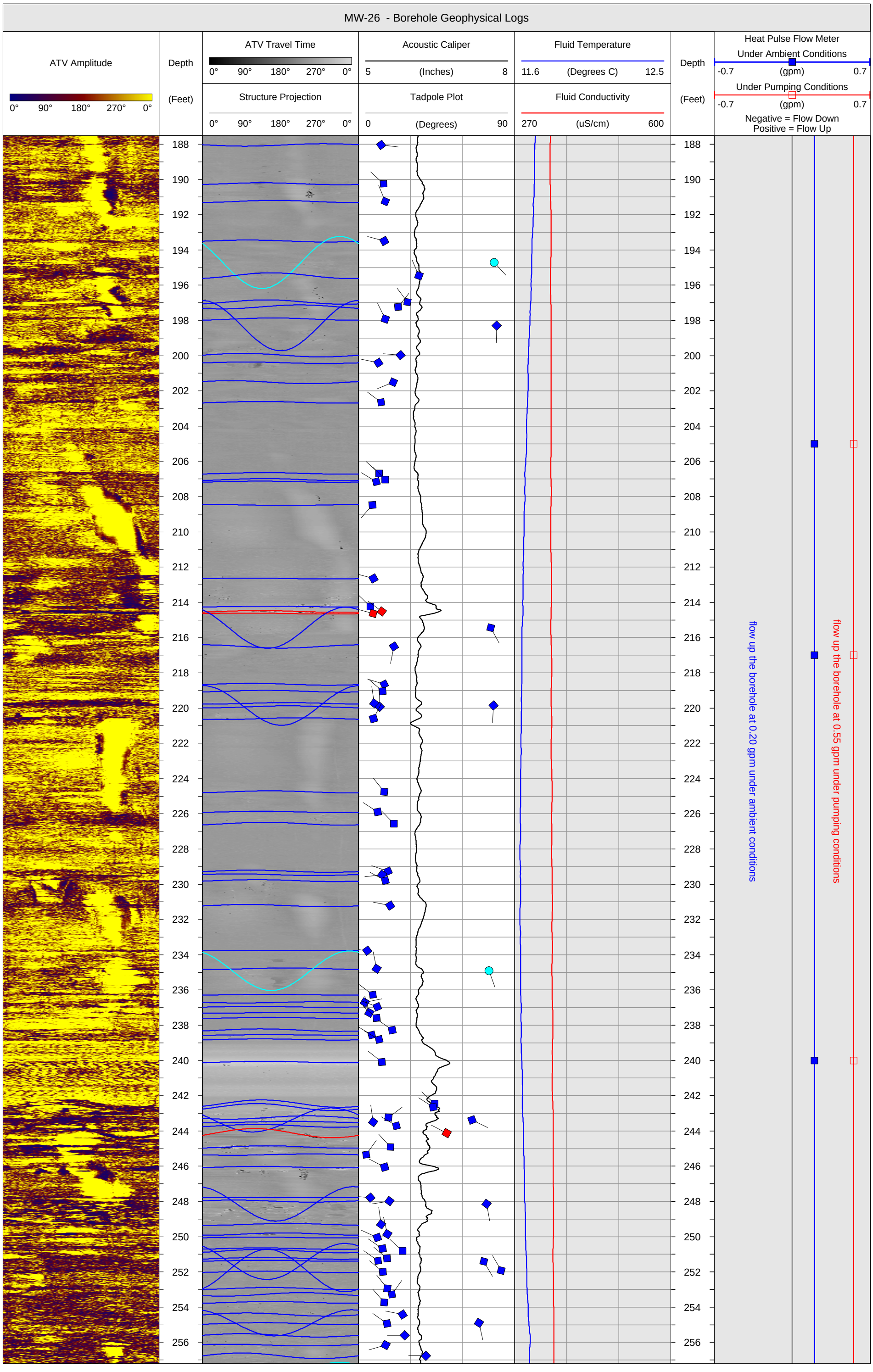
STRUCTURE LEGEND

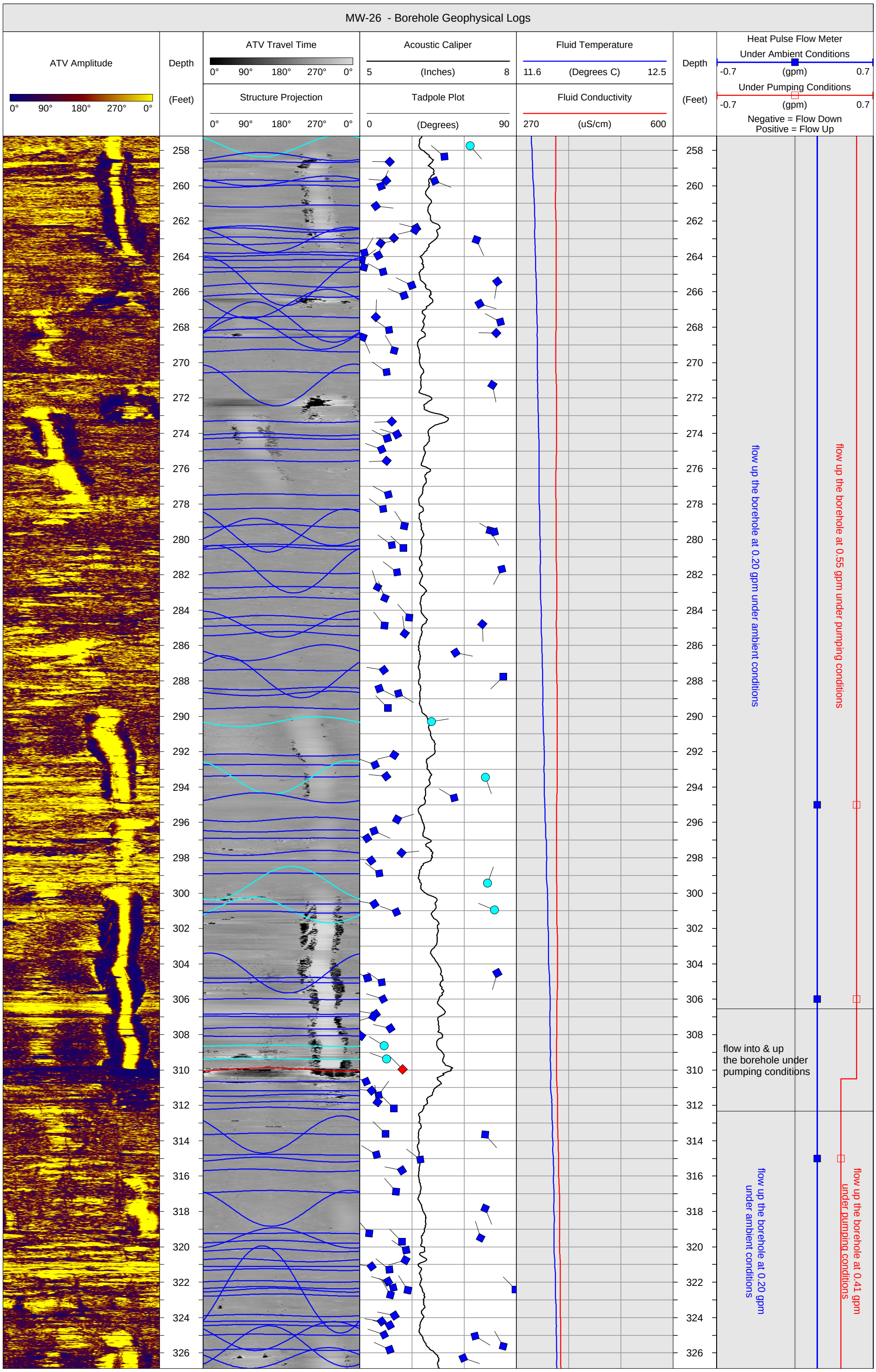
Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

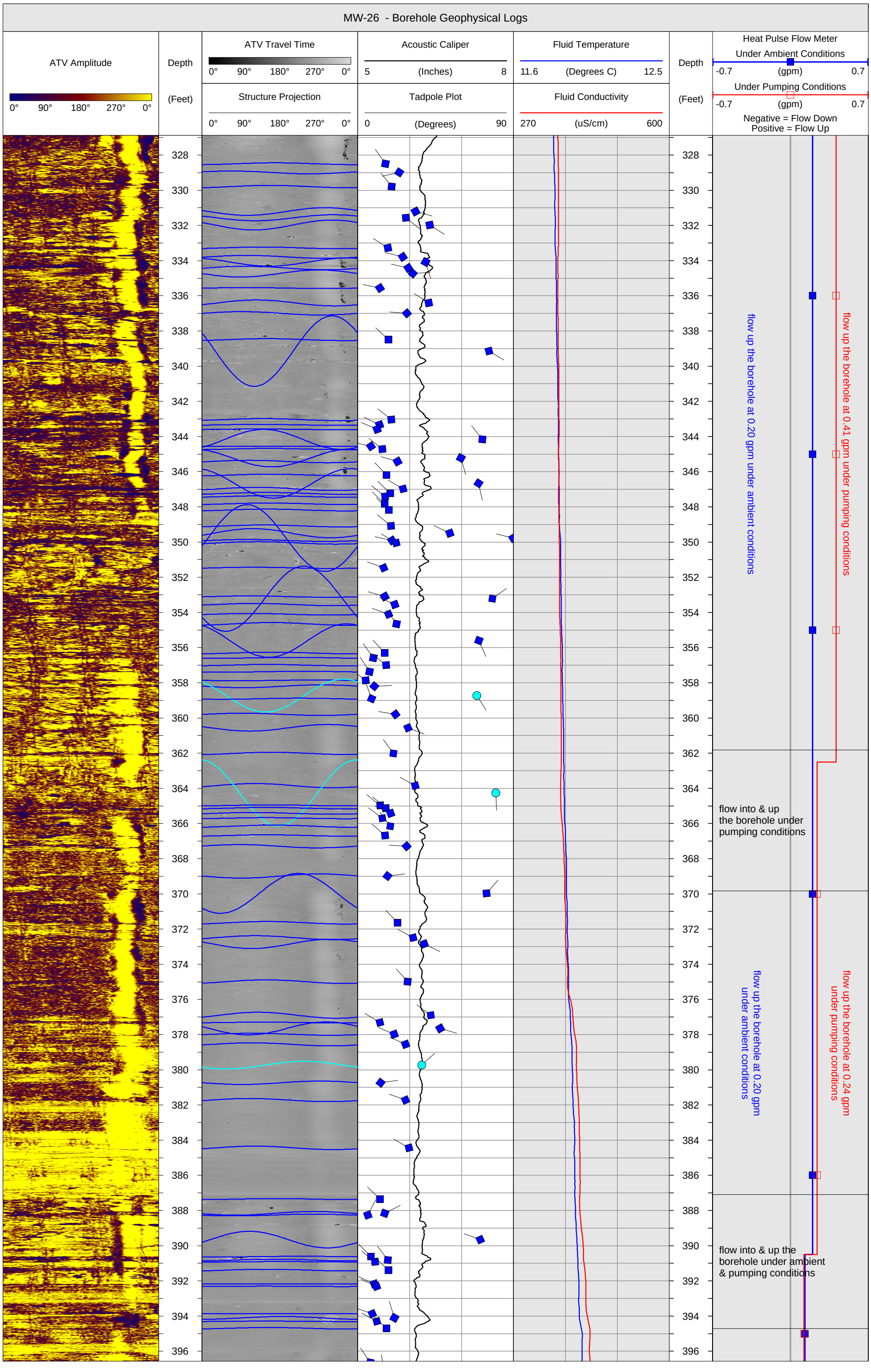
MW-26 - Borehole Geophysical Logs

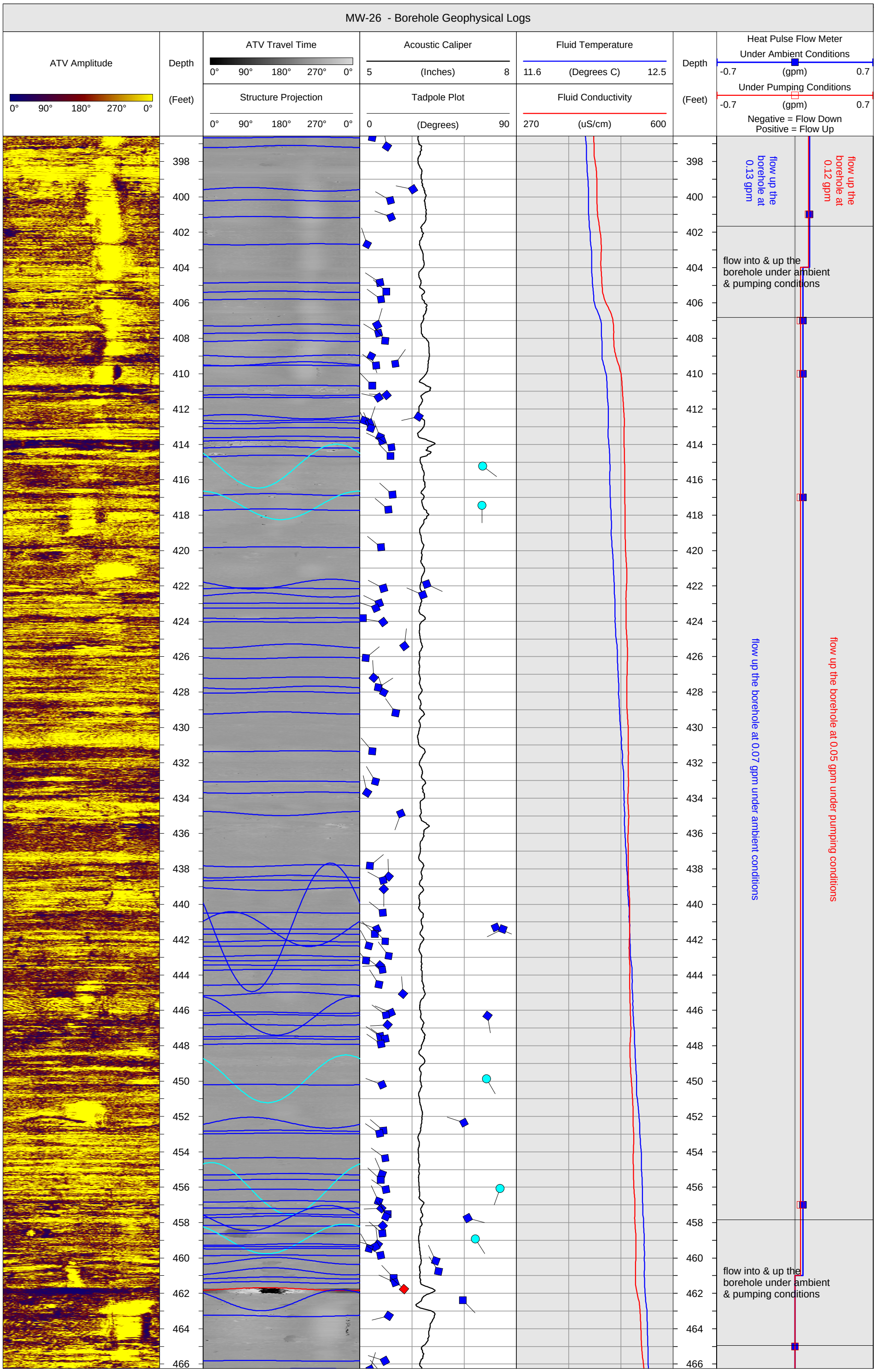


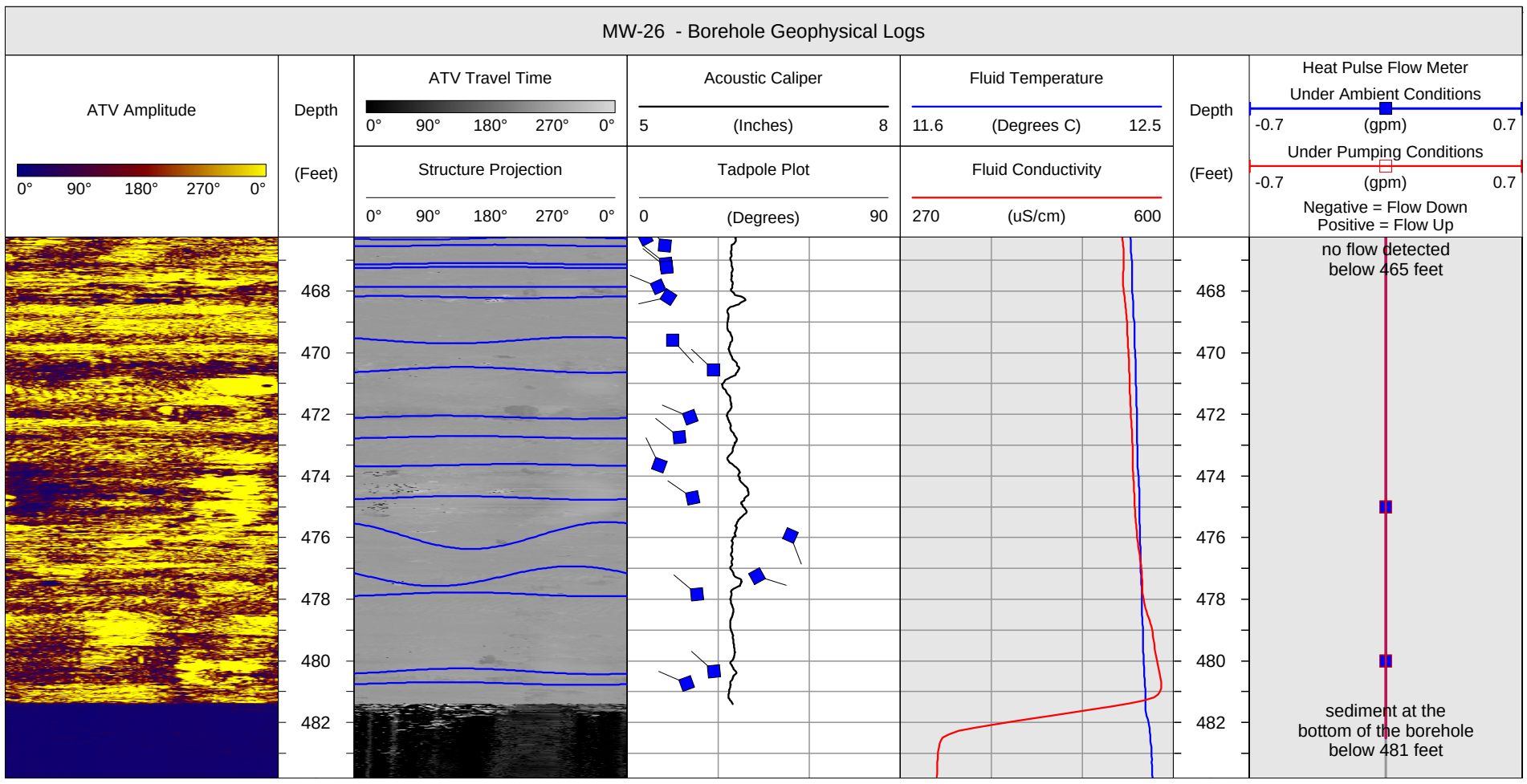

MW-26 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.6 (Degrees C) 12.5
Fluid Conductivity
270 (uS/cm) 600
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.55 gpm under pumping conditions
flow out of the borehole under ambient conditions
flow up at 0.20 gpm
flow up at 0.55 gpm


MW-26 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.6 (Degrees C) 12.5
Fluid Conductivity
270 (uS/cm) 600
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.55 gpm under pumping conditions


MW-26 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.6 (Degrees C) 12.5
Fluid Conductivity
270 (uS/cm) 600
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.55 gpm under pumping conditions
flow into & up the borehole under pumping conditions
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.41 gpm under pumping conditions


MW-26 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.6 (Degrees C) 12.5
Fluid Conductivity
270 (uS/cm) 600
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.41 gpm under pumping conditions
flow into & up the borehole under pumping conditions
flow up the borehole at 0.20 gpm under ambient conditions
flow up the borehole at 0.24 gpm under pumping conditions
flow into & up the borehole under ambient & pumping conditions


MW-26 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.6 (Degrees C) 12.5
Fluid Conductivity
270 (uS/cm) 600
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
flow up the borehole at 0.13 gpm
flow up the borehole at 0.12 gpm
flow into & up the borehole under ambient & pumping conditions
flow up the borehole at 0.07 gpm under ambient conditions
flow up the borehole at 0.05 gpm under pumping conditions
flow into & up the borehole under ambient & pumping conditions
398 400 402 404 406 408 410 412 414 416 418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 460 462 464 466


MW-26 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.6 (Degrees C) 12.5
Fluid Conductivity
270 (uS/cm) 600
Depth
(Feet)
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
468
470
472
474
476
478
480
482
no flow detected
below 465 feet
sediment at the
bottom of the borehole
below 481 feet

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MW-27 - BOREHOLE GEOPHYSICAL LOGS

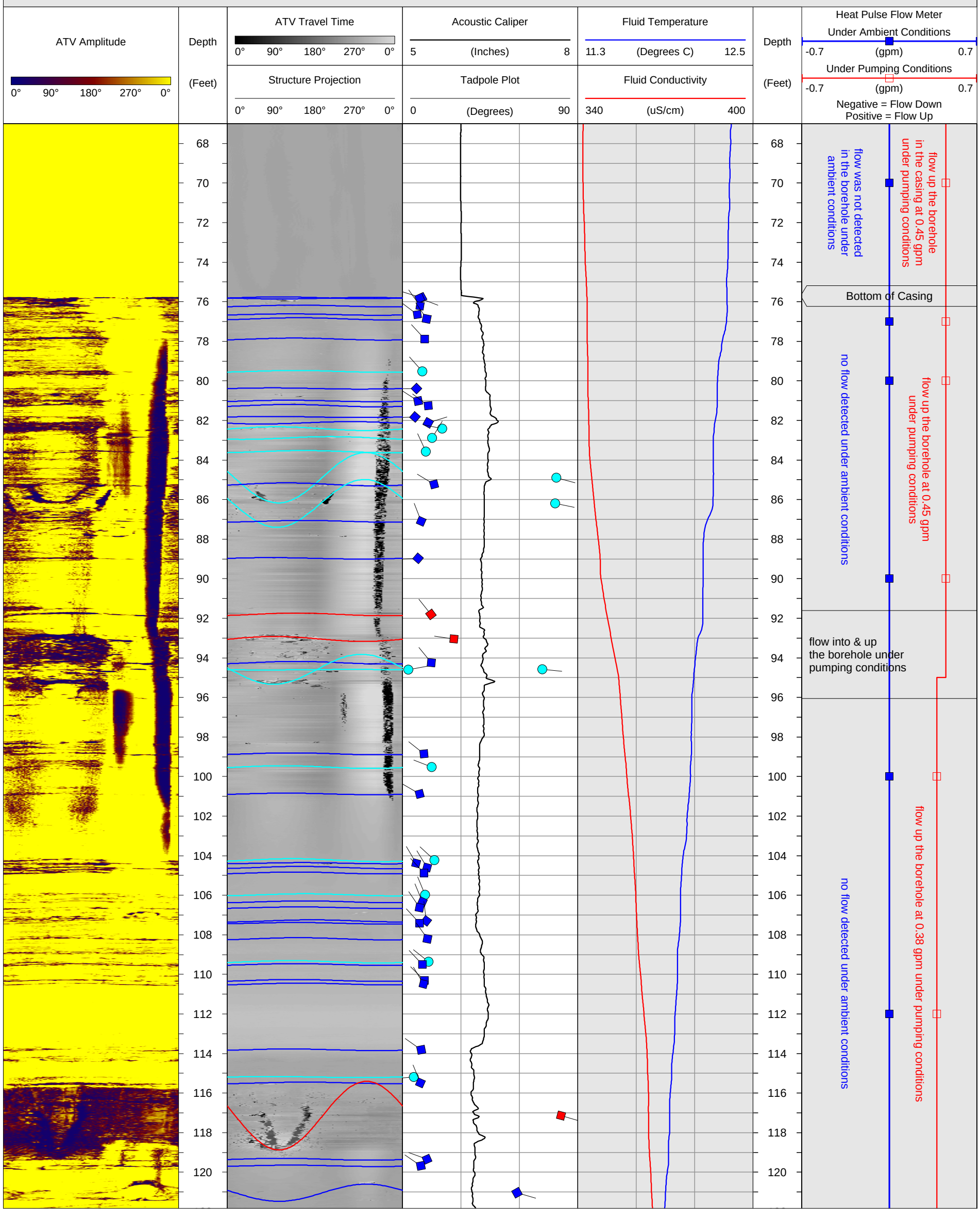
DATE(S) LOGGED: May 17 & 18, 2016

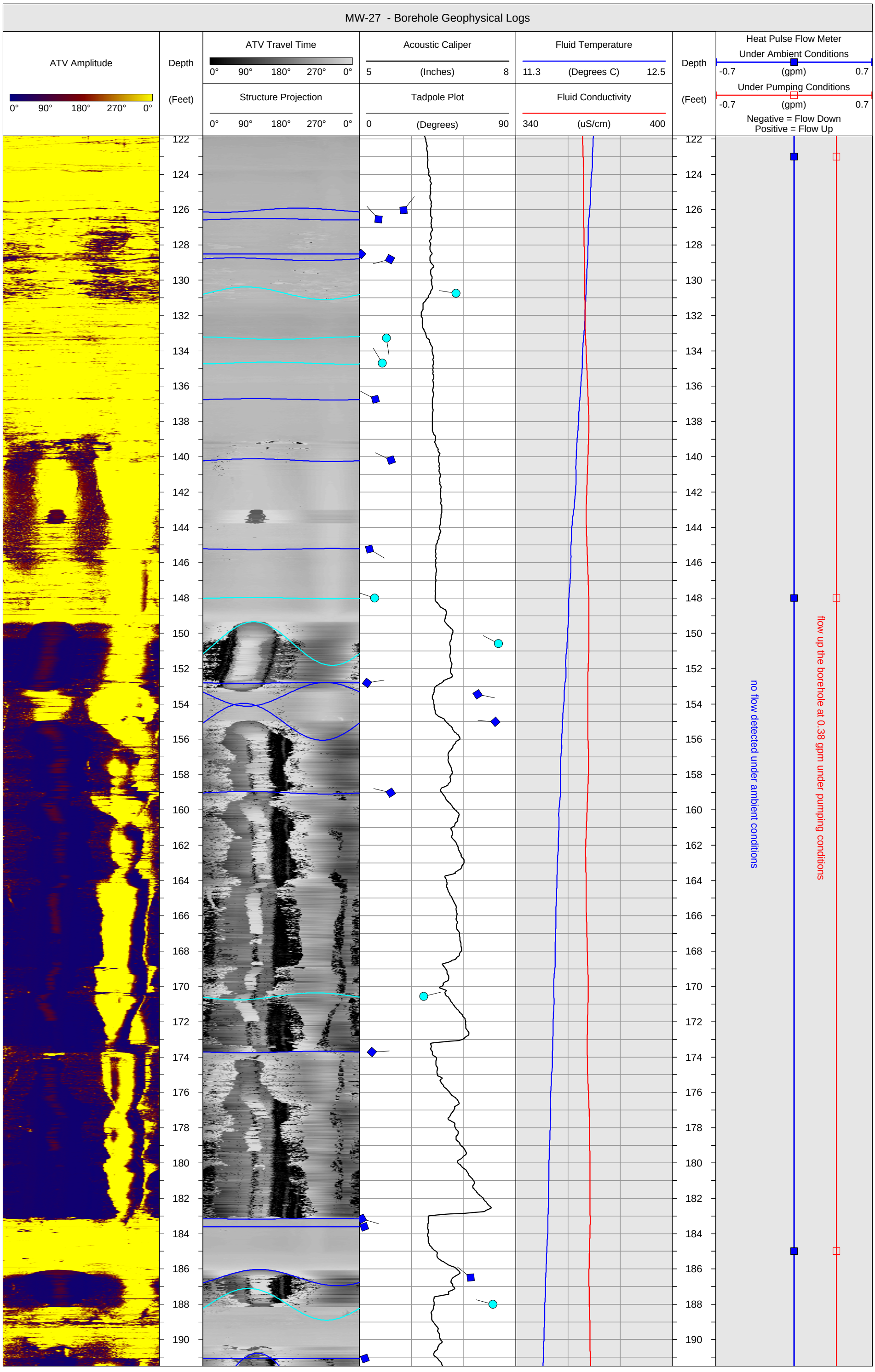
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the 6-Inch Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North (Magnetic Declination = 13° West)
LOGGING GEOPHYSICIST(S):	Nick DeCristofaro & Mikko Aarnio	TOP OF CASING:	0.5 Feet Below the Top of the Concrete Pad
CLIENT REP(S) ON-SITE:	David Cuomo	BOREHOLE DIAMETER:	6 Inches
LOGS PROCESSED BY:	Robert Garfield	WATER LEVEL DEPTH:	10.0 Feet

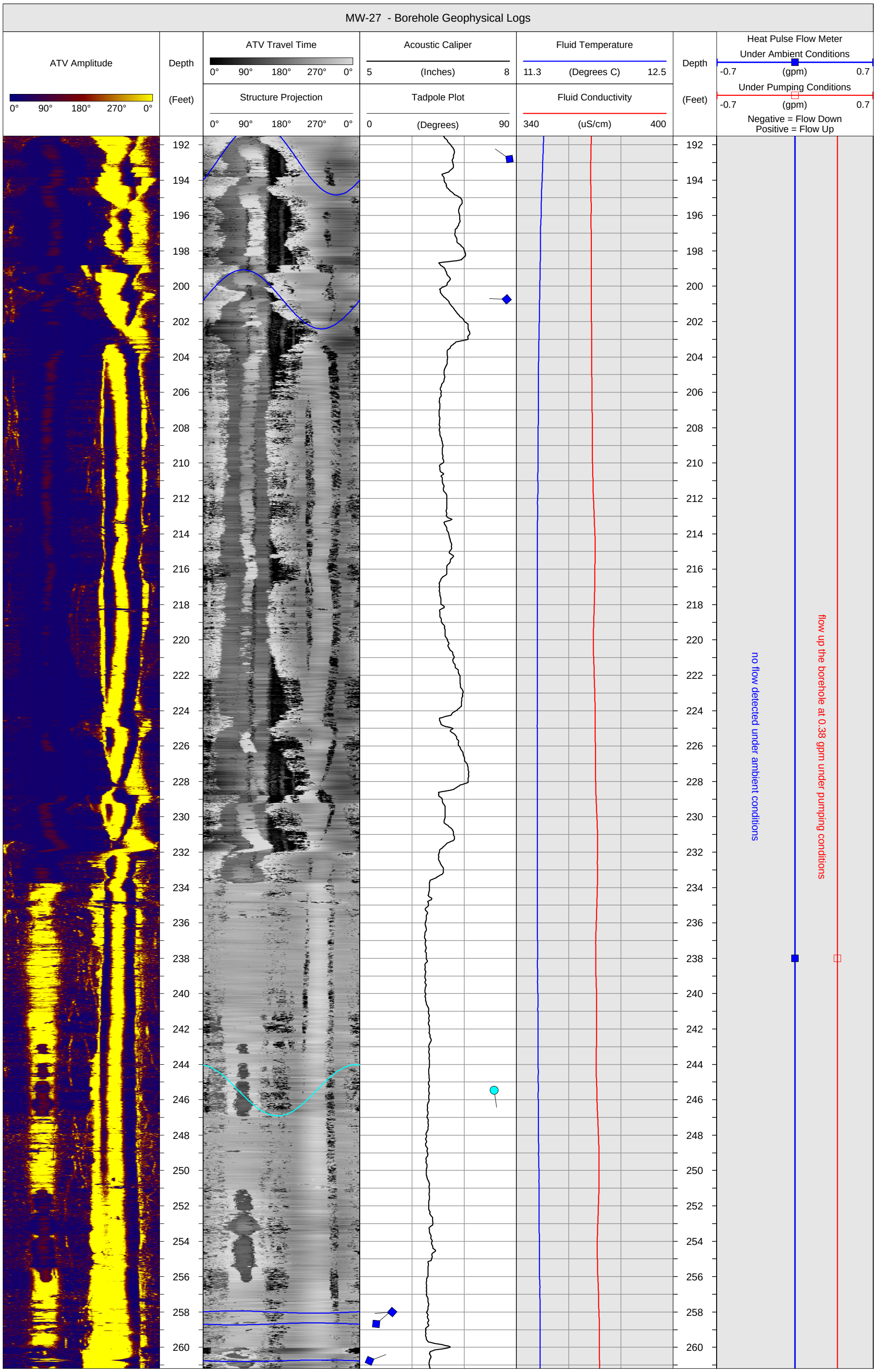
STRUCTURE LEGEND

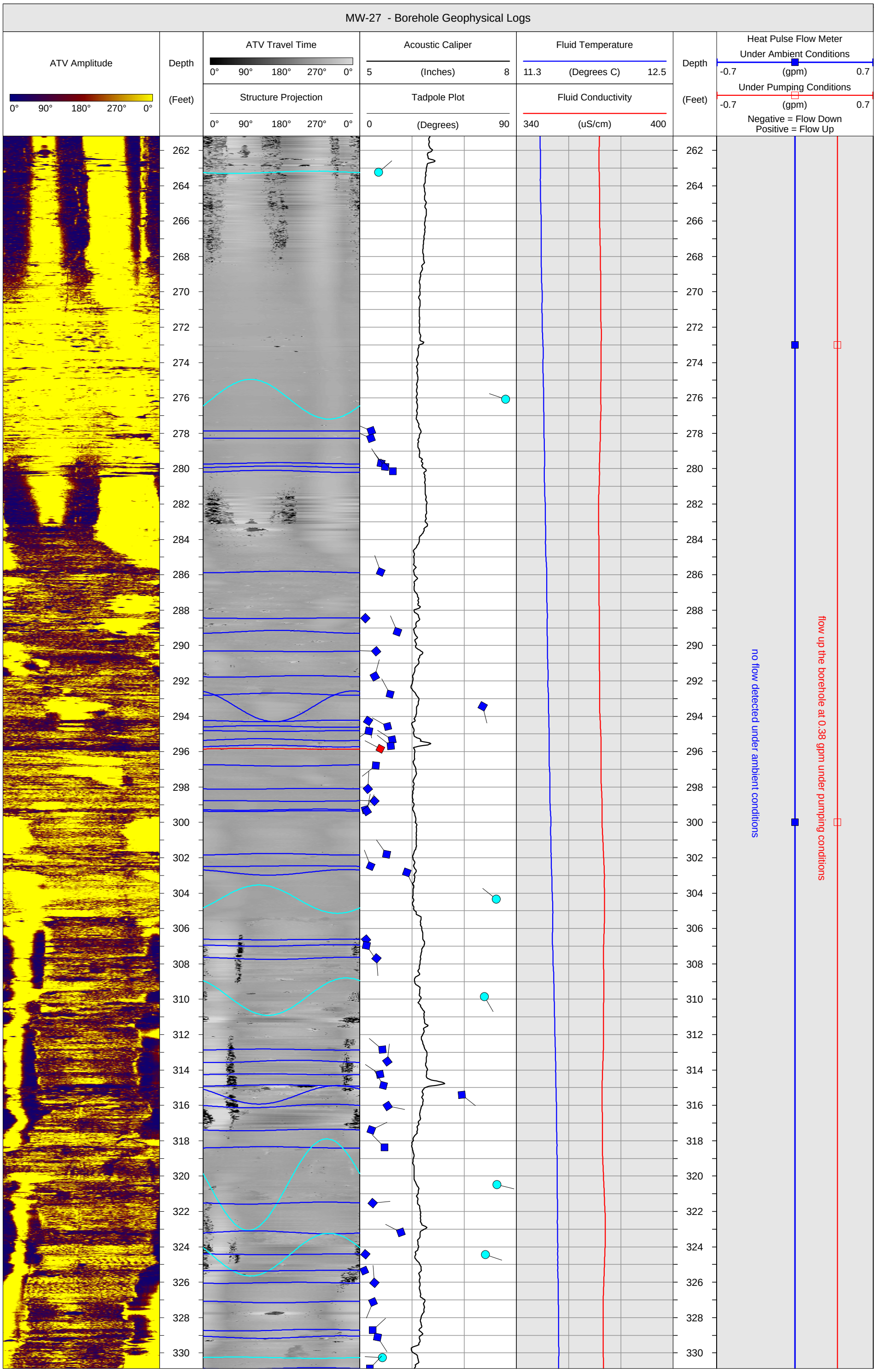
Fracture Rank 1 Fracture Rank 2 Fracture Rank 3

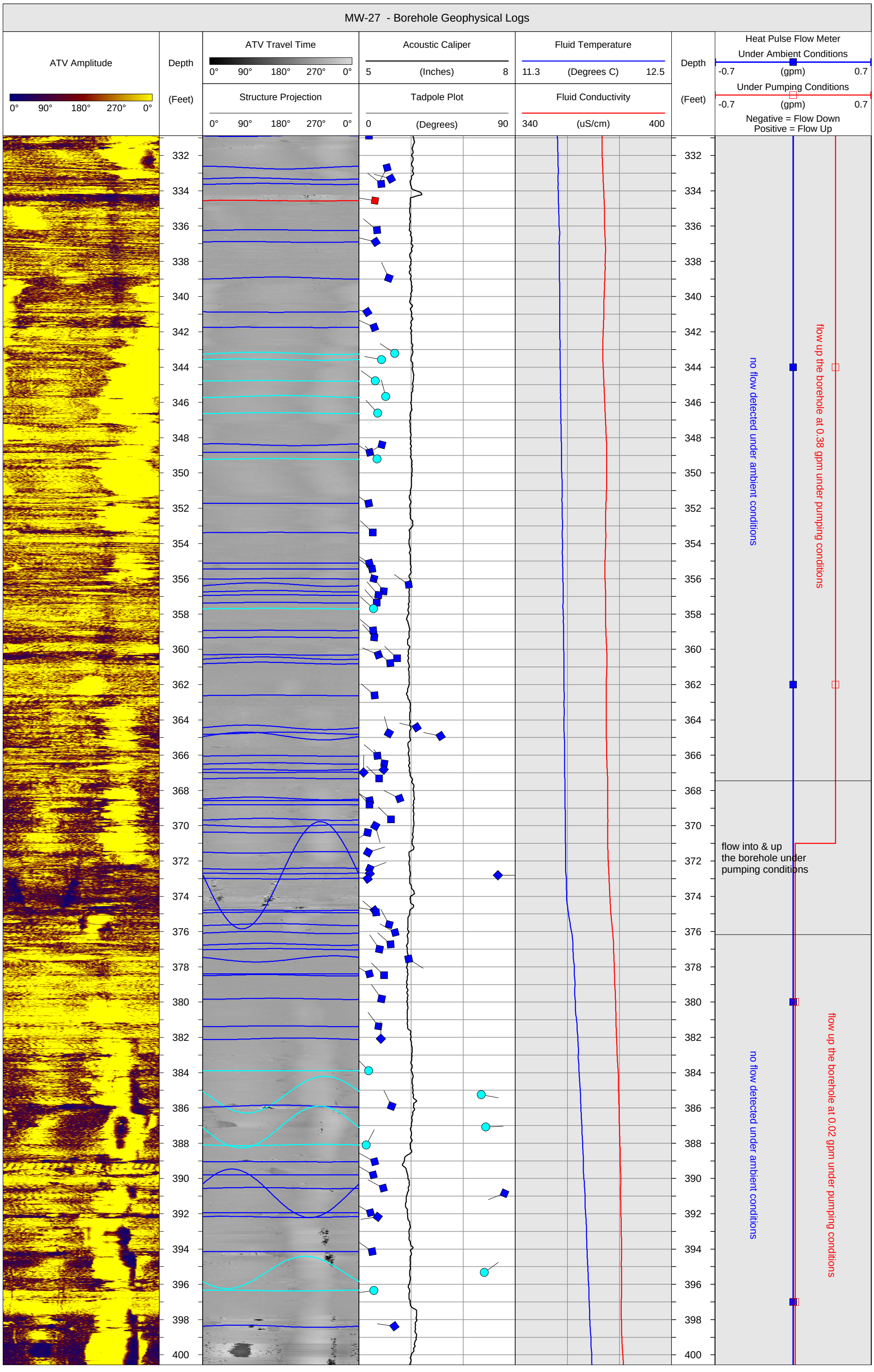
MW-27 - Borehole Geophysical Logs

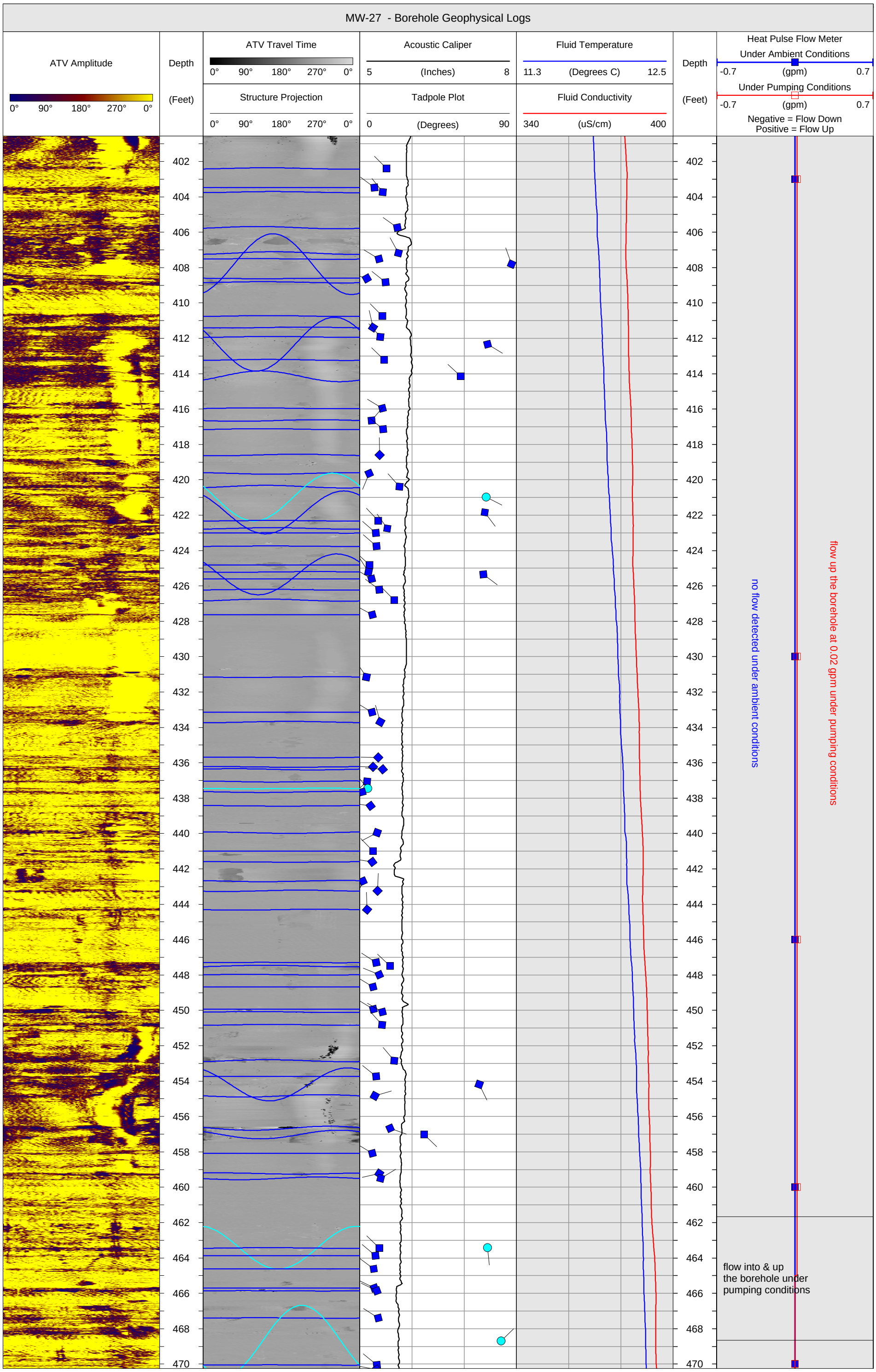


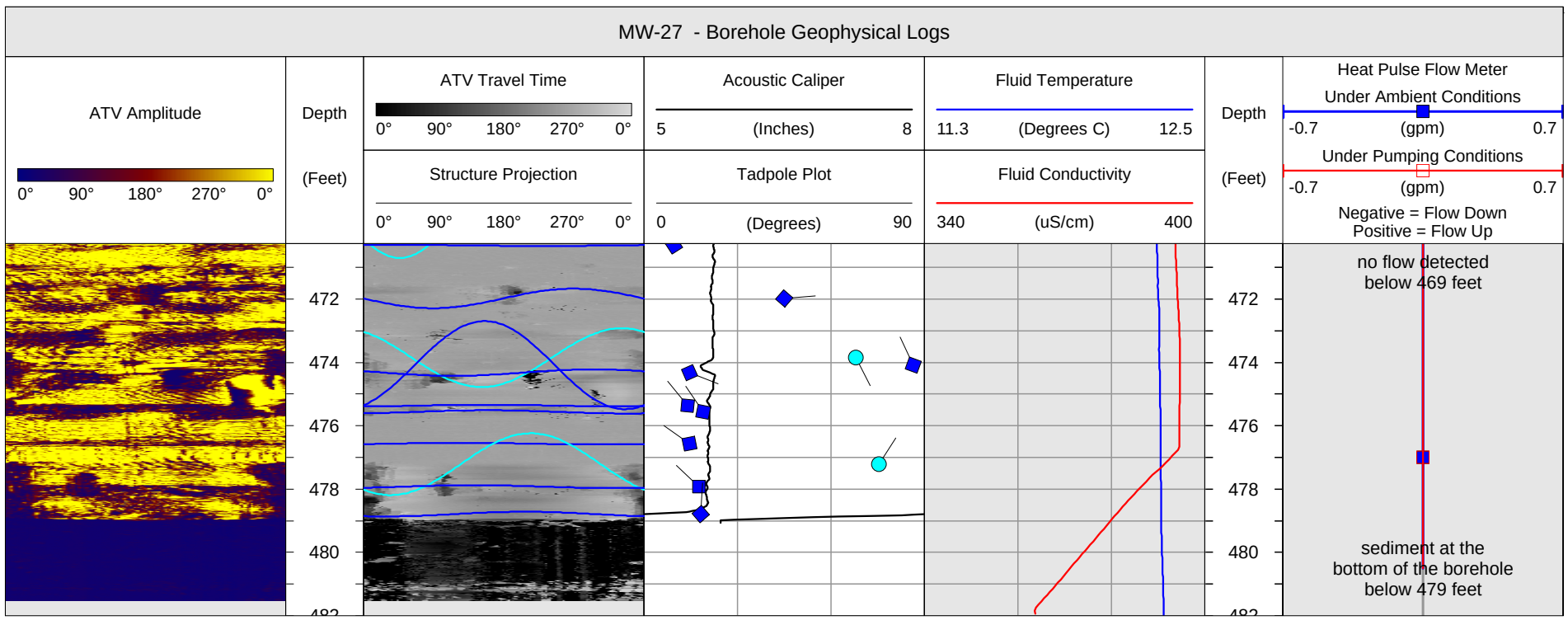

MW-27 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.3 (Degrees C) 12.5
Fluid Conductivity
340 (uS/cm) 400
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.38 gpm under pumping conditions


MW-27 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.3 (Degrees C) 12.5
Fluid Conductivity
340 (uS/cm) 400
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.38 gpm under pumping conditions


MW-27 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.3 (Degrees C) 12.5
Fluid Conductivity
340 (uS/cm) 400
Depth
(Feet)
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.38 gpm under pumping conditions
262
264
266
268
270
272
274
276
278
280
282
284
286
288
290
292
294
296
298
300
302
304
306
308
310
312
314
316
318
320
322
324
326
328
330


MW-27 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.3 (Degrees C) 12.5
Fluid Conductivity
340 (uS/cm) 400
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.38 gpm under pumping conditions
flow into & up the borehole under pumping conditions
no flow detected under ambient conditions
flow up the borehole at 0.02 gpm under pumping conditions


MW-27 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.3 (Degrees C) 12.5
Fluid Conductivity
340 (uS/cm) 400
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
no flow detected under ambient conditions
flow up the borehole at 0.02 gpm under pumping conditions
flow into & up
the borehole under
pumping conditions


MW-27 - Borehole Geophysical Logs
ATV Amplitude
0° 90° 180° 270° 0°
Depth
(Feet)
ATV Travel Time
0° 90° 180° 270° 0°
Structure Projection
0° 90° 180° 270° 0°
Acoustic Caliper
5 (Inches) 8
Tadpole Plot
0 (Degrees) 90
Fluid Temperature
11.3 (Degrees C) 12.5
Fluid Conductivity
340 (uS/cm) 400
Depth
(Feet)
Heat Pulse Flow Meter
Under Ambient Conditions
-0.7 (gpm) 0.7
Under Pumping Conditions
-0.7 (gpm) 0.7
Negative = Flow Down
Positive = Flow Up
472
474
476
478
480
no flow detected
below 469 feet
sediment at the
bottom of the borehole
below 479 feet

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MW-24 - FRACTURE STATISTICS PLOTS

DATE LOGGED: May 18 & 19, 2016

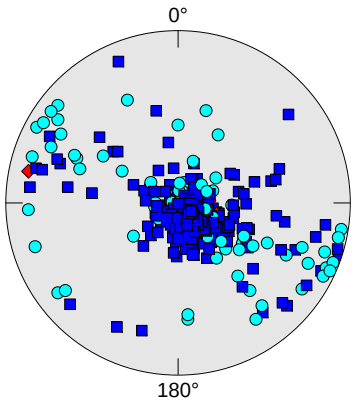
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	ORIENTATION REFERENCE:	True North
LOCATION:	South Plainfield, New Jersey	MAGNETIC DECLINATION:	13° West

STRUCTURE LEGEND

● Fracture Rank 1 ■ Fracture Rank 2 ◆ Fracture Rank 3

Stereogram - Lower Hemisphere of Bedrock Fractures

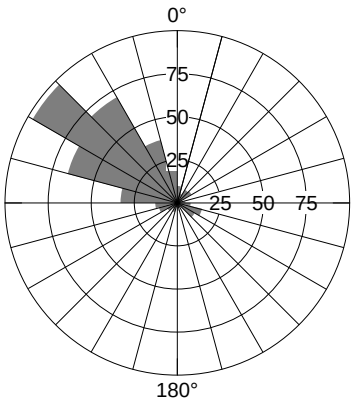
Schmidt Plot - LH - Bedrock Structures



	Counts	Dip[deg]	Azi[deg]
Mean	460	21.17	312.50
■	340	17.98	312.14
◆	6	23.80	306.68
●	114	31.28	315.00

Dip Azimuth Rose Diagram of Bedrock Fractures

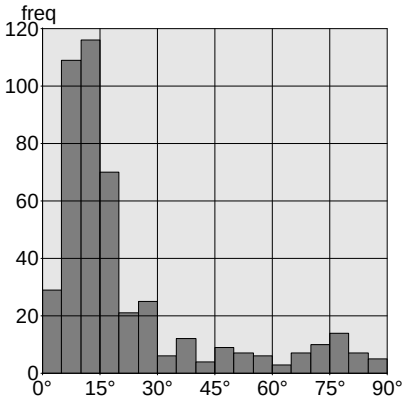
Azimuth - Absolute (Count)



Components:	Azimuth
Counts:	460.00
Mean (2D):	312.50
Std.Dev.:	57.07
Min:	1.65
Max:	359.11

Dip Angle Histogram of Bedrock Fractures

Dip Histogram (Count)



Counts:	460.00
Mean (2D):	21.17
Std.Dev.:	20.88
Min:	0.21
Max:	87.56

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MW-25 - FRACTURE STATISTICS PLOTS

DATE LOGGED: May 16, 2016

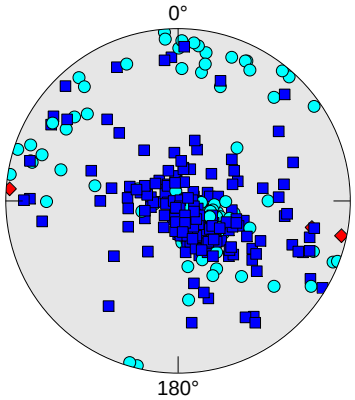
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	ORIENTATION REFERENCE:	True North
LOCATION:	South Plainfield, New Jersey	MAGNETIC DECLINATION:	13° West

STRUCTURE LEGEND

Fracture Rank 1 ■ Fracture Rank 2 ◆ Fracture Rank 3

Stereogram - Lower Hemisphere of Bedrock Fractures

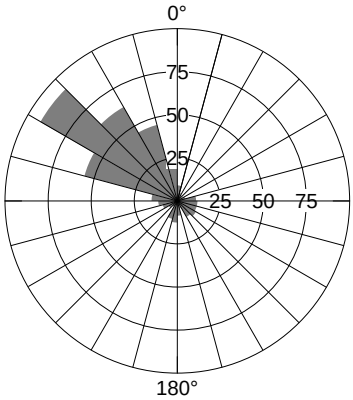
Schmidt Plot - LH - Bedrock Structures



	Counts	Dip[deg]	Azi[deg]
Mean	443	25.52	310.59
■	303	21.53	315.70
●	134	34.51	297.17
◆	6	44.83	293.52

Dip Azimuth Rose Diagram of Bedrock Fractures

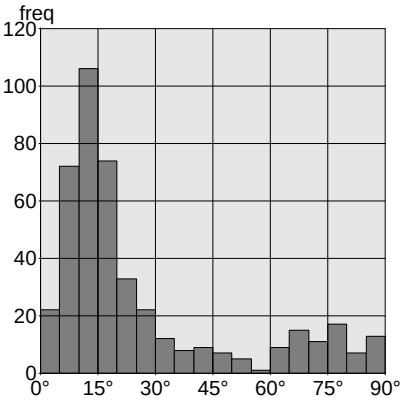
Azimuth - Absolute (Count)



Components:	Azimuth
Counts:	443.00
Mean (2D):	310.59
Std.Dev.:	67.96
Min:	0.01
Max:	359.15

Dip Angle Histogram of Bedrock Fractures

Dip Histogram (Count)



Counts:	443.00
Mean (2D):	25.52
Std.Dev.:	23.70
Min:	0.53
Max:	89.10

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MW-26 - FRACTURE STATISTICS PLOTS

DATE LOGGED: May 17, 2016

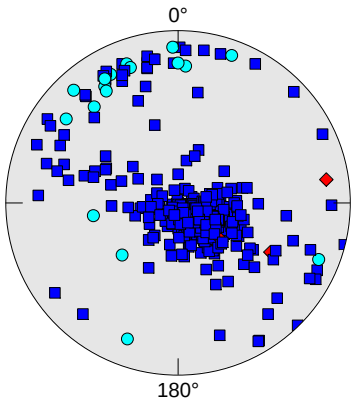
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	ORIENTATION REFERENCE:	True North
LOCATION:	South Plainfield, New Jersey	MAGNETIC DECLINATION:	13° West

STRUCTURE LEGEND

Fracture Rank 1 ■ Fracture Rank 2 ◆ Fracture Rank 3

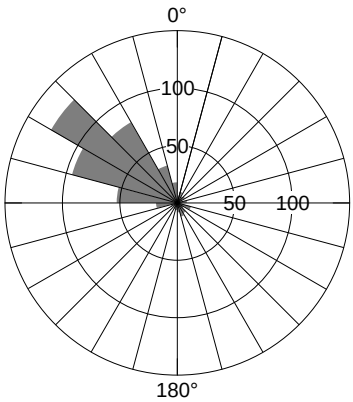
Stereogram - Lower Hemisphere of Bedrock Fractures	Dip Azimuth Rose Diagram of Bedrock Fractures	Dip Angle Histogram of Bedrock Fractures

Schmidt Plot - LH - Bedrock Structures



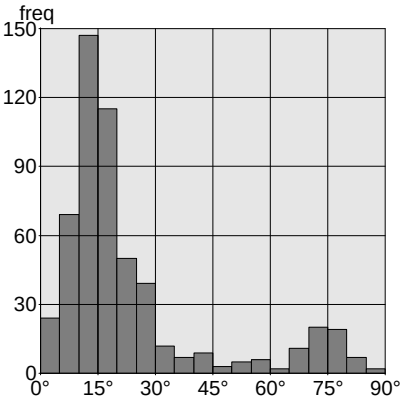
	Counts	Dip[deg]	Azi[deg]
Mean	547	22.94	306.69
■	510	21.51	307.65
●	31	46.94	233.31
◆	6	32.61	296.56

Azimuth - Absolute (Count)



Components:	Azimuth
Counts:	547.00
Mean (2D):	306.69
Std.Dev.:	55.90
Min:	1.87
Max:	359.35

Dip Histogram (Count)



Counts:	547.00
Mean (2D):	22.94
Std.Dev.:	20.28
Min:	0.30
Max:	89.72

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MW-27 - FRACTURE STATISTICS PLOTS

DATE LOGGED: May 17 & 18, 2016

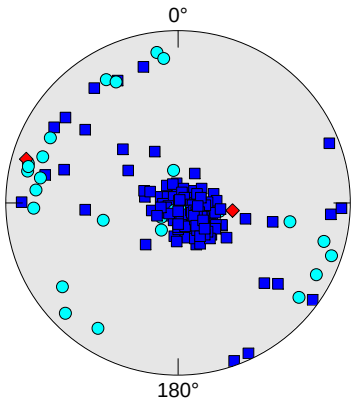
CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	ORIENTATION REFERENCE:	True North
LOCATION:	South Plainfield, New Jersey	MAGNETIC DECLINATION:	13° West

STRUCTURE LEGEND

● Fracture Rank 1 ■ Fracture Rank 2 ◆ Fracture Rank 3

Stereogram - Lower Hemisphere of Bedrock Fractures

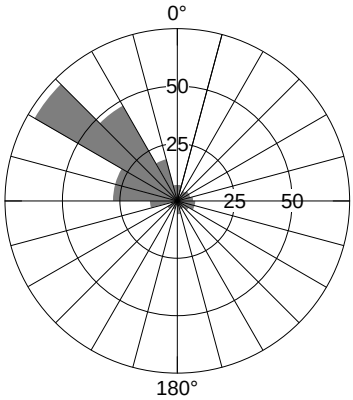
Schmidt Plot - LH - Bedrock Structures



	Counts	Dip[deg]	Azi[deg]
Mean	296	18.58	311.95
■	244	15.09	310.29
●	47	38.27	335.23
◆	5	27.21	296.49

Dip Azimuth Rose Diagram of Bedrock Fractures

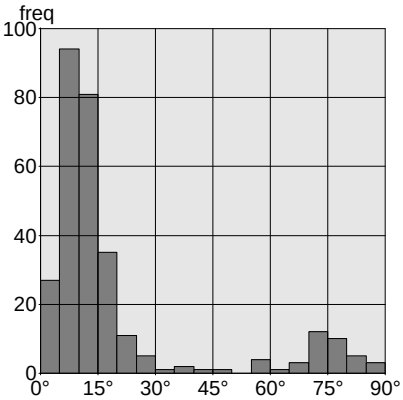
Azimuth - Absolute (Count)



Components:	Azimuth
Counts:	296.00
Mean (2D):	311.95
Std.Dev.:	62.02
Min:	1.16
Max:	359.92

Dip Angle Histogram of Bedrock Fractures

Dip Histogram (Count)



Counts:	296.00
Mean (2D):	18.58
Std.Dev.:	21.62
Min:	1.00
Max:	87.28

HAGER-RICHTER GEOSCIENCE, INC.	
MW-24 - TABLE OF BEDROCK FRACTURES	
CLIENT	Louis Berger
PROJECT	South Plainfield Superfund Site
LOCATION	South Plainfield, New Jersey
H-R FILE	15AM46
DATE LOGGED	May 18 & 19, 2016
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
42.1	335	12	Fracture Rank 2
42.2	322	15	Fracture Rank 2
43.8	109	62	Fracture Rank 2
45.2	257	46	Fracture Rank 2
45.5	311	16	Fracture Rank 2
48.9	337	10	Fracture Rank 2
50.9	357	7	Fracture Rank 2
51.8	172	17	Fracture Rank 2
52.3	332	30	Fracture Rank 2
52.5	300	36	Fracture Rank 2
52.9	341	22	Fracture Rank 2
52.9	279	76	Fracture Rank 2
53.9	318	19	Fracture Rank 2
54.6	312	11	Fracture Rank 2
54.8	302	17	Fracture Rank 2
55.5	285	9	Fracture Rank 2
58.7	157	78	Fracture Rank 2
58.9	128	40	Fracture Rank 2
59.3	130	38	Fracture Rank 2
60.5	324	7	Fracture Rank 2
61.6	308	13	Fracture Rank 2
62.1	290	20	Fracture Rank 3
62.3	280	53	Fracture Rank 2
62.7	318	19	Fracture Rank 2
62.8	320	25	Fracture Rank 2
63.0	350	20	Fracture Rank 2
63.2	334	17	Fracture Rank 2
63.3	337	16	Fracture Rank 2
63.5	298	14	Fracture Rank 2
63.9	298	16	Fracture Rank 2
64.1	302	15	Fracture Rank 2
64.3	323	18	Fracture Rank 2
64.6	292	16	Fracture Rank 2
66.0	286	28	Fracture Rank 2
67.2	43	12	Fracture Rank 2
67.5	331	15	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
67.6	338	13	Fracture Rank 2
67.6	122	43	Fracture Rank 1
68.2	289	79	Fracture Rank 1
68.4	53	27	Fracture Rank 1
69.0	37	3	Fracture Rank 1
69.7	129	79	Fracture Rank 1
71.2	99	55	Fracture Rank 2
71.9	322	16	Fracture Rank 2
73.2	359	12	Fracture Rank 1
76.5	259	29	Fracture Rank 2
77.5	273	26	Fracture Rank 1
81.4	341	9	Fracture Rank 2
83.1	320	17	Fracture Rank 2
83.3	340	23	Fracture Rank 2
84.5	108	78	Fracture Rank 1
85.9	314	15	Fracture Rank 1
86.7	73	76	Fracture Rank 1
90.0	306	27	Fracture Rank 2
90.7	114	54	Fracture Rank 1
92.7	316	16	Fracture Rank 2
94.6	180	38	Fracture Rank 1
94.8	327	14	Fracture Rank 2
95.3	40	20	Fracture Rank 2
95.6	2	11	Fracture Rank 1
95.8	328	10	Fracture Rank 1
95.9	331	15	Fracture Rank 2
96.1	320	21	Fracture Rank 1
96.3	337	18	Fracture Rank 1
96.8	310	24	Fracture Rank 2
96.9	314	32	Fracture Rank 1
98.0	120	31	Fracture Rank 1
98.0	303	36	Fracture Rank 1
98.3	322	20	Fracture Rank 1
100.6	344	11	Fracture Rank 2
103.3	339	10	Fracture Rank 2
104.2	357	15	Fracture Rank 2
104.4	314	12	Fracture Rank 2
104.7	351	14	Fracture Rank 2
105.3	342	9	Fracture Rank 2
105.8	299	28	Fracture Rank 2
116.6	284	19	Fracture Rank 2
117.1	332	14	Fracture Rank 2
120.4	293	23	Fracture Rank 2
120.9	309	12	Fracture Rank 2
122.2	2	26	Fracture Rank 2
124.4	299	12	Fracture Rank 1
125.8	319	19	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
126.8	343	26	Fracture Rank 2
127.3	320	18	Fracture Rank 2
129.2	302	13	Fracture Rank 2
129.5	316	11	Fracture Rank 2
129.8	325	17	Fracture Rank 2
130.0	326	15	Fracture Rank 2
130.2	314	14	Fracture Rank 1
130.4	349	9	Fracture Rank 2
130.6	355	12	Fracture Rank 2
130.7	79	7	Fracture Rank 2
132.4	301	17	Fracture Rank 2
132.9	117	4	Fracture Rank 2
133.8	39	27	Fracture Rank 2
134.4	358	11	Fracture Rank 1
140.3	271	11	Fracture Rank 2
141.5	323	25	Fracture Rank 2
144.0	228	8	Fracture Rank 1
144.1	321	46	Fracture Rank 1
147.2	230	7	Fracture Rank 2
148.2	324	11	Fracture Rank 1
148.9	306	11	Fracture Rank 1
150.0	285	6	Fracture Rank 1
151.2	202	20	Fracture Rank 2
151.2	125	74	Fracture Rank 1
152.8	303	19	Fracture Rank 1
153.0	317	16	Fracture Rank 2
153.2	317	16	Fracture Rank 2
155.1	30	9	Fracture Rank 1
156.5	22	9	Fracture Rank 1
156.6	19	7	Fracture Rank 1
157.5	48	5	Fracture Rank 1
158.9	286	15	Fracture Rank 1
160.1	197	47	Fracture Rank 1
161.4	268	9	Fracture Rank 1
166.8	126	80	Fracture Rank 1
167.0	294	47	Fracture Rank 1
167.1	33	2	Fracture Rank 2
167.8	348	6	Fracture Rank 2
169.1	291	10	Fracture Rank 2
169.3	328	23	Fracture Rank 2
170.2	217	15	Fracture Rank 2
171.0	303	6	Fracture Rank 2
171.9	250	18	Fracture Rank 1
173.0	291	9	Fracture Rank 2
176.7	290	9	Fracture Rank 2
177.7	10	16	Fracture Rank 2
177.8	346	10	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
178.5	69	3	Fracture Rank 2
178.7	285	20	Fracture Rank 2
179.2	197	10	Fracture Rank 1
179.4	300	38	Fracture Rank 2
180.4	279	10	Fracture Rank 2
181.7	350	22	Fracture Rank 2
183.1	118	83	Fracture Rank 1
183.1	317	16	Fracture Rank 2
183.3	317	23	Fracture Rank 2
183.5	310	14	Fracture Rank 2
183.5	304	11	Fracture Rank 2
190.1	279	27	Fracture Rank 2
190.4	279	17	Fracture Rank 2
192.8	51	12	Fracture Rank 1
193.6	121	80	Fracture Rank 1
195.1	293	19	Fracture Rank 1
195.6	345	7	Fracture Rank 3
195.9	318	12	Fracture Rank 2
196.0	308	16	Fracture Rank 1
198.5	315	5	Fracture Rank 2
209.7	308	30	Fracture Rank 2
210.9	292	63	Fracture Rank 2
211.6	20	11	Fracture Rank 2
212.1	287	13	Fracture Rank 2
212.5	336	8	Fracture Rank 2
213.1	97	42	Fracture Rank 2
213.2	102	78	Fracture Rank 3
213.6	303	40	Fracture Rank 2
213.8	285	20	Fracture Rank 2
213.9	301	19	Fracture Rank 2
214.0	281	9	Fracture Rank 2
214.2	87	76	Fracture Rank 1
215.8	308	11	Fracture Rank 2
216.9	302	25	Fracture Rank 2
217.2	344	15	Fracture Rank 2
217.4	344	25	Fracture Rank 2
217.5	338	14	Fracture Rank 2
217.6	342	11	Fracture Rank 2
218.2	277	15	Fracture Rank 2
218.5	355	5	Fracture Rank 2
218.9	5	24	Fracture Rank 2
220.1	291	2	Fracture Rank 2
220.4	310	18	Fracture Rank 2
220.6	339	17	Fracture Rank 2
222.2	315	13	Fracture Rank 2
222.3	177	3	Fracture Rank 2
223.5	155	10	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
224.7	175	6	Fracture Rank 2
230.2	284	6	Fracture Rank 2
235.6	289	5	Fracture Rank 2
238.6	121	15	Fracture Rank 1
239.1	296	59	Fracture Rank 1
242.6	282	14	Fracture Rank 2
245.2	243	30	Fracture Rank 2
247.3	305	13	Fracture Rank 1
248.7	53	76	Fracture Rank 1
249.7	58	11	Fracture Rank 1
250.1	357	14	Fracture Rank 1
252.6	311	10	Fracture Rank 2
253.3	319	22	Fracture Rank 1
259.8	290	66	Fracture Rank 1
262.7	286	19	Fracture Rank 3
263.2	269	12	Fracture Rank 2
263.3	265	15	Fracture Rank 3
263.7	351	10	Fracture Rank 2
263.9	231	71	Fracture Rank 2
264.6	295	11	Fracture Rank 2
270.9	326	10	Fracture Rank 2
280.9	312	49	Fracture Rank 2
283.0	313	76	Fracture Rank 2
284.3	110	17	Fracture Rank 2
284.6	291	37	Fracture Rank 2
284.7	130	50	Fracture Rank 2
284.8	292	33	Fracture Rank 2
285.2	340	20	Fracture Rank 2
285.9	53	7	Fracture Rank 2
286.3	356	10	Fracture Rank 2
286.9	288	21	Fracture Rank 2
287.6	256	49	Fracture Rank 2
287.9	251	52	Fracture Rank 2
288.0	336	9	Fracture Rank 2
288.4	312	10	Fracture Rank 1
288.9	323	12	Fracture Rank 1
289.9	332	12	Fracture Rank 2
290.3	52	18	Fracture Rank 2
290.5	4	18	Fracture Rank 2
292.3	101	3	Fracture Rank 1
292.4	2	13	Fracture Rank 1
293.3	88	11	Fracture Rank 1
294.4	291	14	Fracture Rank 1
296.3	292	18	Fracture Rank 1
297.6	325	32	Fracture Rank 1
298.1	237	22	Fracture Rank 1
298.7	253	10	Fracture Rank 1

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
300.8	198	6	Fracture Rank 1
301.1	323	15	Fracture Rank 2
302.2	297	26	Fracture Rank 2
303.3	271	33	Fracture Rank 2
303.4	279	86	Fracture Rank 1
304.2	255	38	Fracture Rank 2
305.1	109	51	Fracture Rank 1
305.3	300	42	Fracture Rank 1
306.6	325	13	Fracture Rank 1
312.2	315	17	Fracture Rank 1
313.1	148	18	Fracture Rank 2
313.6	323	11	Fracture Rank 3
313.8	325	10	Fracture Rank 1
315.6	305	77	Fracture Rank 1
315.6	307	37	Fracture Rank 1
316.3	321	56	Fracture Rank 1
317.6	303	13	Fracture Rank 2
317.9	328	17	Fracture Rank 2
320.7	268	14	Fracture Rank 2
320.8	308	20	Fracture Rank 2
323.7	317	16	Fracture Rank 2
324.0	335	7	Fracture Rank 2
324.6	293	13	Fracture Rank 2
325.5	297	4	Fracture Rank 2
327.0	300	23	Fracture Rank 2
327.5	210	14	Fracture Rank 2
328.0	272	2	Fracture Rank 2
328.2	284	72	Fracture Rank 2
329.6	344	19	Fracture Rank 2
330.2	284	15	Fracture Rank 2
331.3	303	14	Fracture Rank 2
331.9	322	10	Fracture Rank 2
333.1	306	9	Fracture Rank 2
335.3	288	88	Fracture Rank 2
339.6	16	66	Fracture Rank 2
340.8	170	29	Fracture Rank 2
341.1	314	73	Fracture Rank 2
342.1	326	26	Fracture Rank 2
347.9	42	4	Fracture Rank 2
349.7	307	1	Fracture Rank 2
351.5	270	9	Fracture Rank 2
352.5	52	72	Fracture Rank 1
354.0	310	13	Fracture Rank 1
354.9	304	16	Fracture Rank 2
355.2	117	73	Fracture Rank 2
355.3	321	16	Fracture Rank 2
355.4	278	48	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
355.7	315	19	Fracture Rank 2
355.8	302	14	Fracture Rank 2
355.9	303	22	Fracture Rank 2
362.4	26	69	Fracture Rank 2
363.9	280	2	Fracture Rank 2
364.0	299	8	Fracture Rank 2
364.1	283	12	Fracture Rank 2
364.4	264	8	Fracture Rank 2
365.1	275	8	Fracture Rank 2
365.9	324	10	Fracture Rank 2
366.8	301	10	Fracture Rank 2
367.2	303	4	Fracture Rank 2
367.3	337	12	Fracture Rank 2
367.4	314	6	Fracture Rank 2
370.1	303	78	Fracture Rank 2
372.4	303	13	Fracture Rank 2
374.3	296	82	Fracture Rank 2
374.7	64	12	Fracture Rank 2
374.9	322	69	Fracture Rank 2
376.5	290	35	Fracture Rank 2
376.9	47	75	Fracture Rank 2
380.2	209	13	Fracture Rank 2
380.4	328	14	Fracture Rank 2
380.5	35	17	Fracture Rank 2
380.8	341	11	Fracture Rank 2
381.0	132	8	Fracture Rank 2
381.0	323	51	Fracture Rank 2
384.0	7	11	Fracture Rank 2
385.1	258	3	Fracture Rank 2
385.5	300	14	Fracture Rank 2
386.7	96	75	Fracture Rank 2
387.1	300	19	Fracture Rank 2
388.0	327	14	Fracture Rank 2
388.8	60	12	Fracture Rank 2
389.1	9	17	Fracture Rank 2
389.6	227	11	Fracture Rank 2
390.0	325	12	Fracture Rank 2
391.6	337	11	Fracture Rank 2
392.5	326	16	Fracture Rank 1
394.4	275	2	Fracture Rank 2
394.5	184	6	Fracture Rank 1
394.6	269	2	Fracture Rank 1
394.9	288	6	Fracture Rank 2
396.9	305	6	Fracture Rank 2
397.1	245	4	Fracture Rank 2
397.6	304	14	Fracture Rank 2
398.2	295	13	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
399.0	290	6	Fracture Rank 2
399.2	304	4	Fracture Rank 2
400.1	313	10	Fracture Rank 2
400.7	336	11	Fracture Rank 2
401.2	316	10	Fracture Rank 2
401.3	295	6	Fracture Rank 2
401.4	316	10	Fracture Rank 2
401.6	314	10	Fracture Rank 2
404.9	246	10	Fracture Rank 2
406.9	110	64	Fracture Rank 2
410.2	294	83	Fracture Rank 1
412.7	297	84	Fracture Rank 1
413.4	311	17	Fracture Rank 2
414.0	254	16	Fracture Rank 2
414.9	295	72	Fracture Rank 1
415.2	104	74	Fracture Rank 2
415.9	312	28	Fracture Rank 1
417.2	322	11	Fracture Rank 2
417.9	321	66	Fracture Rank 1
422.0	312	17	Fracture Rank 2
422.6	305	7	Fracture Rank 2
422.8	287	7	Fracture Rank 2
423.0	292	7	Fracture Rank 2
423.4	296	6	Fracture Rank 2
425.3	297	26	Fracture Rank 2
425.6	297	35	Fracture Rank 1
425.8	296	27	Fracture Rank 2
425.9	115	56	Fracture Rank 1
427.1	112	23	Fracture Rank 2
427.2	127	16	Fracture Rank 1
427.4	186	10	Fracture Rank 1
428.0	295	56	Fracture Rank 2
429.0	312	7	Fracture Rank 2
430.6	220	5	Fracture Rank 2
430.8	241	29	Fracture Rank 2
431.9	294	7	Fracture Rank 2
432.3	285	5	Fracture Rank 2
432.6	297	7	Fracture Rank 2
432.7	232	4	Fracture Rank 2
433.3	249	6	Fracture Rank 2
433.4	287	7	Fracture Rank 2
434.8	154	56	Fracture Rank 1
434.9	354	10	Fracture Rank 2
435.2	286	86	Fracture Rank 2
435.3	200	21	Fracture Rank 1
436.1	355	58	Fracture Rank 1
436.6	232	14	Fracture Rank 1

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
437.8	316	11	Fracture Rank 2
438.2	356	12	Fracture Rank 2
438.4	284	13	Fracture Rank 1
439.4	291	86	Fracture Rank 1
439.9	294	86	Fracture Rank 1
440.3	320	6	Fracture Rank 2
440.8	293	6	Fracture Rank 2
441.4	308	8	Fracture Rank 1
441.9	318	9	Fracture Rank 1
442.1	299	7	Fracture Rank 1
444.9	210	38	Fracture Rank 1
445.4	305	10	Fracture Rank 2
446.7	310	9	Fracture Rank 2
447.1	306	8	Fracture Rank 1
447.3	302	7	Fracture Rank 1
447.5	308	13	Fracture Rank 2
447.7	316	18	Fracture Rank 2
448.4	110	0	Fracture Rank 1
448.6	261	7	Fracture Rank 2
449.4	81	11	Fracture Rank 1
449.5	115	13	Fracture Rank 2
449.8	114	70	Fracture Rank 1
450.4	326	71	Fracture Rank 1
451.3	304	10	Fracture Rank 2
451.4	300	9	Fracture Rank 1
451.6	300	7	Fracture Rank 2
451.8	307	7	Fracture Rank 2
453.4	339	11	Fracture Rank 1
453.6	339	19	Fracture Rank 2
453.9	316	11	Fracture Rank 1
457.1	120	68	Fracture Rank 1
457.2	304	6	Fracture Rank 2
459.6	262	32	Fracture Rank 2
459.7	355	55	Fracture Rank 1
460.4	293	27	Fracture Rank 2
460.5	104	70	Fracture Rank 2
460.9	273	26	Fracture Rank 2
461.1	354	3	Fracture Rank 2
461.7	248	15	Fracture Rank 1
462.6	304	6	Fracture Rank 2
463.3	303	6	Fracture Rank 2
463.4	293	11	Fracture Rank 2
465.4	303	7	Fracture Rank 2
465.7	301	7	Fracture Rank 2
466.0	303	7	Fracture Rank 2
466.4	302	8	Fracture Rank 1
466.5	301	7	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
468.2	309	15	Fracture Rank 2
469.1	291	8	Fracture Rank 2
469.4	336	14	Fracture Rank 2
469.8	346	17	Fracture Rank 2
469.9	265	4	Fracture Rank 2
470.1	304	10	Fracture Rank 2
470.2	277	4	Fracture Rank 2
470.3	316	14	Fracture Rank 2
470.5	7	12	Fracture Rank 2
470.7	80	10	Fracture Rank 2
470.9	94	16	Fracture Rank 2
471.0	31	6	Fracture Rank 2
471.2	324	6	Fracture Rank 2
471.3	289	10	Fracture Rank 2
472.5	319	14	Fracture Rank 2
473.2	359	17	Fracture Rank 2
473.9	312	6	Fracture Rank 2
474.2	303	7	Fracture Rank 2
474.4	312	7	Fracture Rank 2
474.5	308	10	Fracture Rank 2
474.7	326	5	Fracture Rank 2
474.7	282	85	Fracture Rank 1
474.8	309	6	Fracture Rank 2
475.3	310	8	Fracture Rank 2
475.6	353	11	Fracture Rank 2
475.9	338	8	Fracture Rank 2
476.1	274	6	Fracture Rank 2
476.2	11	7	Fracture Rank 2
476.4	36	9	Fracture Rank 2
476.6	323	11	Fracture Rank 2
476.9	307	5	Fracture Rank 2
477.6	330	16	Fracture Rank 2
478.2	167	46	Fracture Rank 2
478.3	300	8	Fracture Rank 2
478.8	310	12	Fracture Rank 2
478.9	308	10	Fracture Rank 2
479.0	327	13	Fracture Rank 2
479.1	337	12	Fracture Rank 2
479.2	313	13	Fracture Rank 2
479.4	309	9	Fracture Rank 2
479.6	314	11	Fracture Rank 2
479.8	307	9	Fracture Rank 2
479.9	317	8	Fracture Rank 2
480.4	309	7	Fracture Rank 2
480.6	329	8	Fracture Rank 2
480.9	315	7	Fracture Rank 2
481.1	334	1	Fracture Rank 2

MW-24 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
481.4	302	7	Fracture Rank 2

HAGER-RICHTER GEOSCIENCE, INC.	
MW-25 - TABLE OF BEDROCK FRACTURES	
CLIENT	Louis Berger
PROJECT	Cornell-Dubilier Electronics Superfund Site
LOCATION	South Plainfield, New Jersey
H-R FILE	15AM46
DATE LOGGED	May 16, 2016
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
55.9	77	1	Fracture Rank 2
56.1	333	14	Fracture Rank 2
56.2	355	11	Fracture Rank 2
56.5	175	10	Fracture Rank 2
57.4	145	4	Fracture Rank 2
58.0	334	8	Fracture Rank 2
58.7	348	10	Fracture Rank 2
59.5	138	13	Fracture Rank 2
59.9	254	15	Fracture Rank 2
60.0	338	28	Fracture Rank 2
60.2	286	15	Fracture Rank 2
60.5	339	13	Fracture Rank 2
60.7	309	13	Fracture Rank 2
61.1	261	15	Fracture Rank 2
65.0	323	14	Fracture Rank 1
65.8	341	15	Fracture Rank 2
66.0	319	16	Fracture Rank 2
66.2	313	15	Fracture Rank 1
67.3	311	14	Fracture Rank 1
68.4	325	11	Fracture Rank 2
68.6	326	20	Fracture Rank 1
68.8	335	16	Fracture Rank 2
69.7	310	13	Fracture Rank 1
69.8	310	12	Fracture Rank 1
70.7	354	18	Fracture Rank 1
71.2	81	11	Fracture Rank 1
72.5	62	18	Fracture Rank 2
75.4	314	6	Fracture Rank 3
76.2	282	27	Fracture Rank 1
77.0	319	10	Fracture Rank 2
77.3	295	14	Fracture Rank 2
77.5	303	14	Fracture Rank 2
77.9	317	14	Fracture Rank 2
78.1	329	12	Fracture Rank 1
78.4	305	11	Fracture Rank 2
78.9	330	13	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
79.2	305	9	Fracture Rank 1
79.3	312	52	Fracture Rank 2
79.5	291	73	Fracture Rank 1
79.5	303	42	Fracture Rank 2
80.3	109	73	Fracture Rank 1
80.8	334	6	Fracture Rank 2
81.0	139	53	Fracture Rank 2
81.1	254	8	Fracture Rank 2
81.5	337	31	Fracture Rank 1
82.6	346	7	Fracture Rank 2
82.7	336	10	Fracture Rank 2
82.9	133	8	Fracture Rank 2
83.0	172	10	Fracture Rank 2
83.6	312	14	Fracture Rank 2
84.7	301	19	Fracture Rank 1
86.0	312	18	Fracture Rank 1
86.8	299	12	Fracture Rank 2
87.5	126	7	Fracture Rank 1
87.6	309	13	Fracture Rank 2
87.8	304	15	Fracture Rank 2
88.0	335	17	Fracture Rank 1
88.9	304	18	Fracture Rank 2
89.1	310	22	Fracture Rank 2
89.3	312	14	Fracture Rank 3
89.5	303	19	Fracture Rank 2
89.7	310	18	Fracture Rank 2
90.6	280	10	Fracture Rank 2
90.8	288	9	Fracture Rank 2
91.4	289	8	Fracture Rank 2
92.1	351	32	Fracture Rank 1
94.3	322	23	Fracture Rank 1
94.4	354	20	Fracture Rank 1
94.6	298	19	Fracture Rank 2
94.8	309	13	Fracture Rank 2
95.4	304	15	Fracture Rank 1
95.8	305	21	Fracture Rank 2
96.3	300	21	Fracture Rank 1
96.6	292	68	Fracture Rank 2
96.9	280	26	Fracture Rank 2
97.0	287	33	Fracture Rank 2
98.7	287	19	Fracture Rank 1
99.2	123	66	Fracture Rank 1
99.8	329	19	Fracture Rank 2
99.9	313	11	Fracture Rank 2
100.4	317	21	Fracture Rank 1
100.9	310	12	Fracture Rank 1
101.0	302	15	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
101.6	309	7	Fracture Rank 1
101.9	312	16	Fracture Rank 2
103.1	333	10	Fracture Rank 1
103.4	314	11	Fracture Rank 1
103.6	328	15	Fracture Rank 2
104.3	305	19	Fracture Rank 1
104.4	324	24	Fracture Rank 1
104.5	327	28	Fracture Rank 2
104.8	320	24	Fracture Rank 2
105.0	165	8	Fracture Rank 1
105.4	334	7	Fracture Rank 2
105.5	335	11	Fracture Rank 2
105.8	97	3	Fracture Rank 2
106.4	17	9	Fracture Rank 2
107.0	325	13	Fracture Rank 2
107.1	333	12	Fracture Rank 2
107.3	333	22	Fracture Rank 1
107.4	322	10	Fracture Rank 2
107.5	327	13	Fracture Rank 2
107.6	311	17	Fracture Rank 2
107.7	327	9	Fracture Rank 2
108.0	328	9	Fracture Rank 2
108.1	298	19	Fracture Rank 2
108.3	300	11	Fracture Rank 2
108.5	124	4	Fracture Rank 2
108.8	257	1	Fracture Rank 2
108.9	201	16	Fracture Rank 2
109.1	146	29	Fracture Rank 2
109.4	257	7	Fracture Rank 3
109.6	291	21	Fracture Rank 1
109.9	190	16	Fracture Rank 2
110.1	181	9	Fracture Rank 1
110.7	312	11	Fracture Rank 2
111.4	302	17	Fracture Rank 2
111.6	306	27	Fracture Rank 1
112.4	321	6	Fracture Rank 1
112.8	312	16	Fracture Rank 1
114.2	330	38	Fracture Rank 1
115.0	335	40	Fracture Rank 1
115.2	119	3	Fracture Rank 1
117.0	318	13	Fracture Rank 2
117.3	205	2	Fracture Rank 2
117.4	150	6	Fracture Rank 2
117.5	86	9	Fracture Rank 2
119.2	98	13	Fracture Rank 2
119.6	121	7	Fracture Rank 2
121.1	93	24	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
121.2	106	24	Fracture Rank 2
121.5	147	10	Fracture Rank 2
121.7	316	11	Fracture Rank 2
121.8	315	15	Fracture Rank 2
122.6	290	13	Fracture Rank 2
126.4	349	17	Fracture Rank 2
126.6	34	3	Fracture Rank 2
127.5	313	24	Fracture Rank 2
129.8	328	16	Fracture Rank 1
131.1	318	36	Fracture Rank 2
132.2	281	68	Fracture Rank 3
132.2	319	3	Fracture Rank 2
132.5	80	5	Fracture Rank 2
134.8	81	69	Fracture Rank 2
138.9	300	28	Fracture Rank 2
143.4	101	32	Fracture Rank 2
143.7	125	2	Fracture Rank 2
146.4	31	28	Fracture Rank 2
146.8	359	16	Fracture Rank 2
149.4	107	20	Fracture Rank 1
150.5	323	12	Fracture Rank 2
150.9	306	12	Fracture Rank 2
151.5	309	6	Fracture Rank 1
152.0	308	46	Fracture Rank 2
153.6	320	15	Fracture Rank 2
155.3	333	2	Fracture Rank 2
155.6	121	75	Fracture Rank 2
160.7	285	68	Fracture Rank 2
162.5	278	53	Fracture Rank 2
163.5	291	71	Fracture Rank 2
165.6	293	31	Fracture Rank 2
167.2	320	14	Fracture Rank 2
168.5	324	28	Fracture Rank 2
169.4	343	50	Fracture Rank 2
169.9	349	41	Fracture Rank 2
170.4	311	24	Fracture Rank 2
170.9	304	46	Fracture Rank 2
171.9	291	60	Fracture Rank 2
176.0	327	69	Fracture Rank 2
180.2	300	78	Fracture Rank 2
181.1	324	8	Fracture Rank 2
182.0	144	9	Fracture Rank 2
183.6	300	11	Fracture Rank 2
185.0	232	32	Fracture Rank 2
185.5	321	9	Fracture Rank 2
186.5	289	26	Fracture Rank 1
187.0	303	10	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
187.6	191	77	Fracture Rank 1
190.5	124	76	Fracture Rank 2
190.7	318	16	Fracture Rank 1
194.7	332	8	Fracture Rank 2
194.8	328	12	Fracture Rank 2
196.0	340	21	Fracture Rank 2
197.7	287	12	Fracture Rank 1
202.7	271	9	Fracture Rank 2
203.1	297	8	Fracture Rank 2
203.7	263	19	Fracture Rank 2
206.1	105	78	Fracture Rank 1
217.1	330	20	Fracture Rank 2
217.6	190	65	Fracture Rank 1
218.7	323	19	Fracture Rank 2
221.6	303	81	Fracture Rank 1
222.7	177	72	Fracture Rank 2
222.8	328	14	Fracture Rank 2
224.8	330	28	Fracture Rank 2
225.9	344	46	Fracture Rank 2
226.6	354	48	Fracture Rank 1
226.7	174	71	Fracture Rank 2
229.9	353	61	Fracture Rank 2
231.2	173	12	Fracture Rank 2
232.2	338	10	Fracture Rank 1
233.8	191	70	Fracture Rank 1
234.5	317	9	Fracture Rank 1
235.0	180	78	Fracture Rank 1
235.4	312	17	Fracture Rank 2
235.8	302	13	Fracture Rank 2
237.2	292	3	Fracture Rank 1
239.1	316	13	Fracture Rank 1
241.5	105	60	Fracture Rank 1
242.0	304	12	Fracture Rank 2
242.4	327	12	Fracture Rank 2
243.0	334	19	Fracture Rank 2
245.8	318	10	Fracture Rank 2
247.0	346	18	Fracture Rank 2
247.8	292	7	Fracture Rank 1
249.6	314	9	Fracture Rank 1
250.8	286	8	Fracture Rank 2
251.5	336	13	Fracture Rank 2
253.6	347	19	Fracture Rank 2
254.7	105	77	Fracture Rank 1
257.8	340	16	Fracture Rank 1
258.2	332	11	Fracture Rank 2
259.8	299	14	Fracture Rank 1
260.2	298	11	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
262.2	302	11	Fracture Rank 1
262.4	298	10	Fracture Rank 1
262.5	318	10	Fracture Rank 1
262.8	323	18	Fracture Rank 1
263.3	294	13	Fracture Rank 2
263.5	308	14	Fracture Rank 2
265.2	228	38	Fracture Rank 1
267.0	316	15	Fracture Rank 2
267.5	251	60	Fracture Rank 2
268.3	303	9	Fracture Rank 2
270.8	289	15	Fracture Rank 2
273.0	310	9	Fracture Rank 1
273.3	320	13	Fracture Rank 1
273.7	2	8	Fracture Rank 2
275.5	90	38	Fracture Rank 2
276.3	81	24	Fracture Rank 2
278.2	175	23	Fracture Rank 2
279.9	101	41	Fracture Rank 1
280.9	323	13	Fracture Rank 2
282.4	318	12	Fracture Rank 2
282.5	105	78	Fracture Rank 2
282.9	299	17	Fracture Rank 2
285.1	306	10	Fracture Rank 2
285.8	283	6	Fracture Rank 2
288.8	141	81	Fracture Rank 1
289.0	348	21	Fracture Rank 2
290.2	315	15	Fracture Rank 2
291.0	292	20	Fracture Rank 1
292.1	276	18	Fracture Rank 1
292.4	300	12	Fracture Rank 1
293.2	301	16	Fracture Rank 1
294.1	310	17	Fracture Rank 1
297.0	310	22	Fracture Rank 1
298.5	291	37	Fracture Rank 1
300.0	201	26	Fracture Rank 2
300.2	330	67	Fracture Rank 2
301.4	136	83	Fracture Rank 2
301.9	3	10	Fracture Rank 2
303.1	139	43	Fracture Rank 2
304.8	188	80	Fracture Rank 1
305.2	351	25	Fracture Rank 2
305.9	129	67	Fracture Rank 1
306.0	314	14	Fracture Rank 2
307.9	292	12	Fracture Rank 1
308.0	314	13	Fracture Rank 2
309.1	323	15	Fracture Rank 2
310.7	328	73	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
311.4	134	62	Fracture Rank 1
313.2	279	6	Fracture Rank 2
314.4	162	15	Fracture Rank 2
314.4	312	64	Fracture Rank 1
315.5	155	75	Fracture Rank 2
316.7	126	69	Fracture Rank 2
318.2	200	60	Fracture Rank 1
320.8	304	10	Fracture Rank 2
321.8	291	11	Fracture Rank 2
324.7	347	13	Fracture Rank 2
325.9	109	45	Fracture Rank 2
326.7	8	5	Fracture Rank 2
328.4	223	71	Fracture Rank 1
329.4	307	12	Fracture Rank 2
330.1	14	89	Fracture Rank 1
330.5	261	52	Fracture Rank 2
330.6	49	41	Fracture Rank 2
332.4	34	62	Fracture Rank 2
333.7	91	75	Fracture Rank 2
334.7	293	10	Fracture Rank 2
336.8	302	20	Fracture Rank 2
338.5	306	16	Fracture Rank 1
338.6	235	86	Fracture Rank 1
341.8	181	83	Fracture Rank 1
342.2	225	77	Fracture Rank 2
342.5	303	19	Fracture Rank 2
343.0	288	29	Fracture Rank 2
345.1	284	17	Fracture Rank 1
345.5	281	70	Fracture Rank 2
346.0	311	6	Fracture Rank 2
347.1	222	87	Fracture Rank 1
347.5	290	9	Fracture Rank 1
348.3	0	15	Fracture Rank 1
349.0	292	86	Fracture Rank 1
350.3	253	3	Fracture Rank 2
350.6	73	18	Fracture Rank 1
351.1	303	15	Fracture Rank 1
351.5	294	11	Fracture Rank 1
351.7	327	19	Fracture Rank 2
354.1	99	89	Fracture Rank 1
359.3	206	80	Fracture Rank 1
361.1	270	43	Fracture Rank 1
361.7	306	14	Fracture Rank 2
362.1	122	75	Fracture Rank 1
362.4	274	11	Fracture Rank 1
363.0	295	29	Fracture Rank 2
363.4	305	14	Fracture Rank 1

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
363.9	288	16	Fracture Rank 1
365.0	308	4	Fracture Rank 2
365.8	293	65	Fracture Rank 2
368.1	256	2	Fracture Rank 1
369.2	302	9	Fracture Rank 1
370.1	306	11	Fracture Rank 2
372.1	195	30	Fracture Rank 2
374.3	175	88	Fracture Rank 1
376.6	199	63	Fracture Rank 2
377.4	308	22	Fracture Rank 2
377.4	301	88	Fracture Rank 2
378.0	291	10	Fracture Rank 2
378.5	307	13	Fracture Rank 2
378.9	309	11	Fracture Rank 2
380.1	74	6	Fracture Rank 2
380.9	62	27	Fracture Rank 2
383.0	201	78	Fracture Rank 1
384.6	182	66	Fracture Rank 1
386.3	302	24	Fracture Rank 1
388.1	271	23	Fracture Rank 1
390.0	317	19	Fracture Rank 2
390.2	350	8	Fracture Rank 2
390.6	108	88	Fracture Rank 1
391.0	293	18	Fracture Rank 2
392.1	343	20	Fracture Rank 2
392.4	356	17	Fracture Rank 2
393.3	326	25	Fracture Rank 2
394.7	323	31	Fracture Rank 1
395.1	311	20	Fracture Rank 2
395.8	342	7	Fracture Rank 2
397.0	294	25	Fracture Rank 2
397.8	313	28	Fracture Rank 2
398.4	314	37	Fracture Rank 2
399.8	342	15	Fracture Rank 2
400.1	219	87	Fracture Rank 1
401.7	186	81	Fracture Rank 1
402.2	317	27	Fracture Rank 2
403.2	314	34	Fracture Rank 2
403.7	164	5	Fracture Rank 1
404.5	320	48	Fracture Rank 1
405.7	159	74	Fracture Rank 1
405.8	297	17	Fracture Rank 1
407.6	336	17	Fracture Rank 1
407.8	206	79	Fracture Rank 1
410.3	256	3	Fracture Rank 2
410.3	291	89	Fracture Rank 1
411.8	318	25	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
414.1	235	61	Fracture Rank 2
415.2	261	41	Fracture Rank 2
415.9	17	88	Fracture Rank 1
418.5	77	13	Fracture Rank 2
419.6	238	8	Fracture Rank 2
421.3	6	15	Fracture Rank 2
421.7	175	84	Fracture Rank 1
424.6	141	75	Fracture Rank 1
426.7	296	44	Fracture Rank 2
427.1	341	16	Fracture Rank 1
427.4	326	15	Fracture Rank 2
428.1	311	34	Fracture Rank 2
430.8	292	4	Fracture Rank 2
431.5	43	10	Fracture Rank 2
432.7	103	19	Fracture Rank 2
433.7	85	12	Fracture Rank 2
434.2	334	8	Fracture Rank 2
436.1	82	2	Fracture Rank 2
436.4	101	15	Fracture Rank 2
436.9	90	79	Fracture Rank 2
439.0	282	87	Fracture Rank 3
439.5	94	88	Fracture Rank 3
440.0	6	9	Fracture Rank 2
441.1	320	5	Fracture Rank 1
441.3	267	7	Fracture Rank 2
441.6	359	6	Fracture Rank 2
441.8	297	6	Fracture Rank 1
442.4	29	15	Fracture Rank 2
442.7	111	81	Fracture Rank 1
445.6	323	25	Fracture Rank 2
446.8	327	31	Fracture Rank 2
446.9	297	37	Fracture Rank 2
447.8	291	30	Fracture Rank 2
447.9	182	79	Fracture Rank 2
448.1	277	54	Fracture Rank 2
448.8	268	49	Fracture Rank 2
450.4	209	76	Fracture Rank 1
450.5	252	30	Fracture Rank 2
451.4	89	65	Fracture Rank 1
452.8	115	17	Fracture Rank 2
453.9	73	17	Fracture Rank 2
455.1	253	27	Fracture Rank 2
456.0	313	13	Fracture Rank 2
456.2	13	8	Fracture Rank 2
458.3	105	21	Fracture Rank 2
459.9	332	19	Fracture Rank 2
460.0	331	14	Fracture Rank 2

MW-25 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
460.8	243	1	Fracture Rank 2
461.0	198	10	Fracture Rank 2
461.2	191	15	Fracture Rank 2
461.4	170	9	Fracture Rank 2
461.6	185	19	Fracture Rank 2
461.9	289	8	Fracture Rank 2
462.0	18	4	Fracture Rank 2
462.3	340	3	Fracture Rank 2
462.4	251	5	Fracture Rank 2
462.6	20	3	Fracture Rank 2
463.1	241	30	Fracture Rank 2
463.4	231	20	Fracture Rank 2
463.8	313	13	Fracture Rank 2
464.2	344	17	Fracture Rank 2
464.9	307	20	Fracture Rank 2
465.3	339	24	Fracture Rank 2
465.7	335	13	Fracture Rank 2
466.0	303	24	Fracture Rank 2
466.2	319	15	Fracture Rank 2
466.4	305	12	Fracture Rank 2
466.5	329	14	Fracture Rank 2
466.7	314	12	Fracture Rank 2
466.9	7	10	Fracture Rank 2
467.6	127	14	Fracture Rank 2
467.8	305	9	Fracture Rank 2
468.1	332	8	Fracture Rank 2
468.8	318	25	Fracture Rank 2
469.8	341	11	Fracture Rank 2
469.9	352	15	Fracture Rank 2
470.3	339	19	Fracture Rank 2
470.8	334	26	Fracture Rank 2

HAGER-RICHTER GEOSCIENCE, INC.	
MW-26 - TABLE OF BEDROCK FRACTURES	
CLIENT	Louis Berger
PROJECT	South Plainfield Superfund Site
LOCATION	South Plainfield, New Jersey
H-R FILE	15AM46
DATE LOGGED	May 17, 2016
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
72.6	259	20	Fracture Rank 2
74.0	277	13	Fracture Rank 2
74.3	305	6	Fracture Rank 2
74.5	295	22	Fracture Rank 1
74.8	269	13	Fracture Rank 2
75.7	281	9	Fracture Rank 2
76.0	285	14	Fracture Rank 2
76.4	297	13	Fracture Rank 2
77.1	319	21	Fracture Rank 2
77.5	338	10	Fracture Rank 2
78.1	296	15	Fracture Rank 1
79.0	318	18	Fracture Rank 1
80.2	74	11	Fracture Rank 2
80.5	303	14	Fracture Rank 2
81.4	307	9	Fracture Rank 2
81.6	274	12	Fracture Rank 1
82.2	331	11	Fracture Rank 1
82.7	294	11	Fracture Rank 2
83.1	320	13	Fracture Rank 2
84.0	305	11	Fracture Rank 2
84.3	308	13	Fracture Rank 2
85.2	319	23	Fracture Rank 2
85.3	329	18	Fracture Rank 2
85.5	334	12	Fracture Rank 2
85.8	319	19	Fracture Rank 2
86.0	326	14	Fracture Rank 2
86.2	303	8	Fracture Rank 2
86.3	323	14	Fracture Rank 2
87.8	326	22	Fracture Rank 2
89.0	322	8	Fracture Rank 2
89.2	343	15	Fracture Rank 2
89.4	329	19	Fracture Rank 2
89.5	330	14	Fracture Rank 2
89.6	316	13	Fracture Rank 2
90.1	346	21	Fracture Rank 2
90.6	318	20	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
90.9	336	16	Fracture Rank 2
91.0	335	13	Fracture Rank 2
91.7	308	23	Fracture Rank 2
91.8	276	12	Fracture Rank 2
92.2	313	11	Fracture Rank 2
92.5	291	32	Fracture Rank 2
92.6	24	34	Fracture Rank 2
93.0	284	29	Fracture Rank 2
93.3	93	70	Fracture Rank 2
93.4	327	36	Fracture Rank 2
93.7	299	17	Fracture Rank 2
94.9	291	19	Fracture Rank 2
95.3	305	18	Fracture Rank 2
95.9	158	76	Fracture Rank 2
96.2	336	26	Fracture Rank 2
96.9	324	30	Fracture Rank 2
98.2	123	80	Fracture Rank 2
99.2	317	19	Fracture Rank 2
99.6	306	14	Fracture Rank 2
99.9	323	10	Fracture Rank 2
100.5	310	24	Fracture Rank 1
101.1	266	9	Fracture Rank 2
101.4	330	15	Fracture Rank 2
102.5	152	73	Fracture Rank 1
103.0	296	11	Fracture Rank 2
103.3	12	20	Fracture Rank 2
104.2	345	21	Fracture Rank 2
104.7	305	14	Fracture Rank 2
105.9	201	27	Fracture Rank 2
106.7	48	5	Fracture Rank 2
107.5	318	13	Fracture Rank 2
108.6	336	13	Fracture Rank 2
109.0	297	19	Fracture Rank 2
109.5	333	18	Fracture Rank 2
111.3	320	14	Fracture Rank 2
112.7	330	18	Fracture Rank 1
112.9	305	26	Fracture Rank 2
113.4	183	69	Fracture Rank 1
114.0	299	0	Fracture Rank 2
114.6	327	7	Fracture Rank 1
114.8	329	8	Fracture Rank 2
116.1	299	20	Fracture Rank 2
118.3	277	14	Fracture Rank 2
118.7	279	22	Fracture Rank 2
119.1	295	11	Fracture Rank 2
119.7	285	14	Fracture Rank 2
120.6	286	12	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
120.8	246	7	Fracture Rank 2
122.4	295	5	Fracture Rank 2
123.3	348	11	Fracture Rank 1
124.2	311	10	Fracture Rank 2
124.5	307	15	Fracture Rank 2
125.1	82	18	Fracture Rank 2
125.9	235	27	Fracture Rank 2
126.8	282	29	Fracture Rank 2
127.1	286	26	Fracture Rank 1
127.8	275	26	Fracture Rank 2
129.5	310	18	Fracture Rank 2
129.8	331	15	Fracture Rank 2
130.5	317	5	Fracture Rank 2
131.7	339	4	Fracture Rank 2
132.0	300	18	Fracture Rank 2
132.4	288	12	Fracture Rank 1
134.5	309	9	Fracture Rank 2
135.3	282	20	Fracture Rank 2
136.2	314	69	Fracture Rank 2
137.9	267	28	Fracture Rank 2
139.3	307	27	Fracture Rank 2
141.7	302	20	Fracture Rank 2
150.2	329	16	Fracture Rank 2
151.5	299	22	Fracture Rank 2
153.8	297	14	Fracture Rank 2
156.7	292	16	Fracture Rank 2
157.0	295	21	Fracture Rank 2
159.3	277	53	Fracture Rank 2
162.7	300	18	Fracture Rank 2
163.2	313	14	Fracture Rank 2
163.9	300	2	Fracture Rank 2
168.3	296	79	Fracture Rank 2
171.1	332	9	Fracture Rank 2
171.4	304	13	Fracture Rank 2
171.9	324	11	Fracture Rank 2
172.3	168	74	Fracture Rank 1
172.9	310	12	Fracture Rank 2
174.2	328	9	Fracture Rank 2
174.3	327	11	Fracture Rank 2
175.2	315	13	Fracture Rank 2
175.3	320	25	Fracture Rank 2
177.7	261	76	Fracture Rank 3
178.4	139	71	Fracture Rank 2
178.6	206	8	Fracture Rank 2
179.7	190	55	Fracture Rank 2
179.7	43	7	Fracture Rank 2
181.0	314	20	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
182.1	296	19	Fracture Rank 2
182.4	305	5	Fracture Rank 2
183.1	282	10	Fracture Rank 2
183.3	300	17	Fracture Rank 2
183.6	296	18	Fracture Rank 2
184.0	310	11	Fracture Rank 2
184.1	308	11	Fracture Rank 2
184.5	307	8	Fracture Rank 2
184.8	294	16	Fracture Rank 2
185.3	296	7	Fracture Rank 2
186.0	326	16	Fracture Rank 2
188.0	97	13	Fracture Rank 2
190.2	312	14	Fracture Rank 2
191.3	337	15	Fracture Rank 2
193.5	285	15	Fracture Rank 2
194.7	137	78	Fracture Rank 1
195.5	337	35	Fracture Rank 2
197.0	324	28	Fracture Rank 2
197.2	39	23	Fracture Rank 2
197.9	334	16	Fracture Rank 2
198.3	181	80	Fracture Rank 2
200.0	275	24	Fracture Rank 2
200.4	281	11	Fracture Rank 2
201.5	248	20	Fracture Rank 2
202.6	306	13	Fracture Rank 2
206.7	313	12	Fracture Rank 2
207.0	315	15	Fracture Rank 2
207.2	301	10	Fracture Rank 2
208.5	221	8	Fracture Rank 2
212.6	285	9	Fracture Rank 2
214.2	314	7	Fracture Rank 2
214.5	307	14	Fracture Rank 3
214.6	285	8	Fracture Rank 3
215.4	151	76	Fracture Rank 2
216.5	192	20	Fracture Rank 2
218.6	288	15	Fracture Rank 2
219.0	311	14	Fracture Rank 2
219.7	352	9	Fracture Rank 2
219.8	183	78	Fracture Rank 2
219.9	359	12	Fracture Rank 2
220.6	27	9	Fracture Rank 2
224.8	321	15	Fracture Rank 2
225.9	302	11	Fracture Rank 2
226.6	316	20	Fracture Rank 2
229.3	289	17	Fracture Rank 2
229.5	263	14	Fracture Rank 2
229.8	298	15	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
231.2	282	18	Fracture Rank 2
233.8	277	5	Fracture Rank 2
234.8	348	10	Fracture Rank 2
234.9	160	75	Fracture Rank 1
236.3	306	8	Fracture Rank 2
236.7	78	4	Fracture Rank 2
237.0	291	11	Fracture Rank 2
237.3	345	6	Fracture Rank 2
237.6	311	10	Fracture Rank 2
238.3	305	19	Fracture Rank 2
238.6	301	8	Fracture Rank 2
238.8	300	12	Fracture Rank 2
240.1	308	13	Fracture Rank 2
242.4	313	44	Fracture Rank 2
242.7	302	43	Fracture Rank 2
243.2	53	17	Fracture Rank 2
243.4	116	65	Fracture Rank 2
243.5	351	8	Fracture Rank 2
243.7	302	22	Fracture Rank 2
244.1	298	51	Fracture Rank 3
244.9	318	18	Fracture Rank 2
245.3	36	4	Fracture Rank 2
246.1	298	15	Fracture Rank 2
247.8	275	7	Fracture Rank 2
248.0	260	18	Fracture Rank 2
248.1	170	74	Fracture Rank 2
249.3	352	13	Fracture Rank 2
249.9	347	17	Fracture Rank 2
250.1	294	11	Fracture Rank 2
250.7	304	14	Fracture Rank 2
250.8	313	25	Fracture Rank 2
251.2	310	16	Fracture Rank 2
251.4	306	11	Fracture Rank 2
251.4	150	72	Fracture Rank 2
251.9	330	82	Fracture Rank 2
252.0	310	14	Fracture Rank 2
252.9	322	17	Fracture Rank 2
253.3	36	19	Fracture Rank 2
253.7	319	15	Fracture Rank 2
254.4	282	25	Fracture Rank 2
254.9	167	69	Fracture Rank 2
254.9	306	16	Fracture Rank 2
255.6	270	27	Fracture Rank 2
256.2	253	16	Fracture Rank 2
256.8	271	39	Fracture Rank 2
257.7	139	63	Fracture Rank 1
258.4	310	49	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
258.6	271	17	Fracture Rank 2
259.7	275	15	Fracture Rank 2
259.7	111	43	Fracture Rank 2
260.0	25	12	Fracture Rank 2
261.2	97	9	Fracture Rank 2
262.4	284	32	Fracture Rank 2
262.5	256	32	Fracture Rank 2
263.0	270	20	Fracture Rank 2
263.1	155	67	Fracture Rank 2
263.3	80	12	Fracture Rank 2
263.8	30	3	Fracture Rank 2
264.0	16	11	Fracture Rank 2
264.2	53	1	Fracture Rank 2
264.6	329	2	Fracture Rank 2
264.9	298	13	Fracture Rank 2
265.4	190	79	Fracture Rank 2
265.6	296	30	Fracture Rank 2
266.2	294	25	Fracture Rank 2
266.7	107	69	Fracture Rank 2
267.4	2	9	Fracture Rank 2
267.7	299	81	Fracture Rank 2
268.2	306	17	Fracture Rank 2
268.3	271	78	Fracture Rank 2
268.6	157	2	Fracture Rank 2
269.3	328	20	Fracture Rank 2
270.5	306	15	Fracture Rank 2
271.3	168	76	Fracture Rank 2
273.3	268	18	Fracture Rank 2
274.1	287	21	Fracture Rank 2
274.3	298	16	Fracture Rank 2
274.9	290	13	Fracture Rank 2
275.6	267	15	Fracture Rank 2
277.5	299	16	Fracture Rank 2
278.3	306	13	Fracture Rank 2
279.2	326	26	Fracture Rank 2
279.5	150	75	Fracture Rank 2
279.6	300	77	Fracture Rank 2
280.3	306	18	Fracture Rank 2
280.5	313	25	Fracture Rank 2
281.7	209	82	Fracture Rank 2
281.9	307	21	Fracture Rank 2
282.7	342	10	Fracture Rank 2
283.3	339	14	Fracture Rank 2
284.4	319	28	Fracture Rank 2
284.8	178	70	Fracture Rank 2
284.9	321	14	Fracture Rank 2
285.3	353	26	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
286.4	102	55	Fracture Rank 2
287.4	280	14	Fracture Rank 2
287.8	226	82	Fracture Rank 2
288.4	116	11	Fracture Rank 2
288.7	122	22	Fracture Rank 2
289.5	315	16	Fracture Rank 2
290.3	81	41	Fracture Rank 1
292.2	257	20	Fracture Rank 2
292.8	290	9	Fracture Rank 2
293.4	276	15	Fracture Rank 2
293.5	160	72	Fracture Rank 1
294.6	301	54	Fracture Rank 2
295.8	73	21	Fracture Rank 2
296.5	114	8	Fracture Rank 2
296.9	283	4	Fracture Rank 2
297.7	84	24	Fracture Rank 2
298.2	276	7	Fracture Rank 2
298.9	306	11	Fracture Rank 2
299.4	20	73	Fracture Rank 1
300.6	280	8	Fracture Rank 2
301.0	292	77	Fracture Rank 1
301.1	290	21	Fracture Rank 2
304.5	196	79	Fracture Rank 2
304.8	298	4	Fracture Rank 2
305.1	306	13	Fracture Rank 2
306.0	288	13	Fracture Rank 2
306.8	279	9	Fracture Rank 2
307.0	254	8	Fracture Rank 2
307.6	283	18	Fracture Rank 2
308.1	350	1	Fracture Rank 2
308.6	301	14	Fracture Rank 1
309.4	290	15	Fracture Rank 1
310.0	316	25	Fracture Rank 3
310.7	293	4	Fracture Rank 2
311.2	276	7	Fracture Rank 2
311.4	36	11	Fracture Rank 2
311.8	351	10	Fracture Rank 2
312.2	316	20	Fracture Rank 2
313.6	314	15	Fracture Rank 2
313.7	139	72	Fracture Rank 2
314.8	302	10	Fracture Rank 2
315.1	307	35	Fracture Rank 2
315.7	282	24	Fracture Rank 2
316.9	319	21	Fracture Rank 2
317.8	158	72	Fracture Rank 2
319.2	319	5	Fracture Rank 2
319.5	342	69	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
319.7	316	24	Fracture Rank 2
320.2	304	27	Fracture Rank 2
320.8	254	26	Fracture Rank 2
321.1	278	7	Fracture Rank 2
321.3	309	17	Fracture Rank 2
322.0	287	16	Fracture Rank 2
322.3	302	19	Fracture Rank 2
322.4	316	89	Fracture Rank 2
322.5	327	28	Fracture Rank 2
322.7	329	18	Fracture Rank 2
323.9	282	20	Fracture Rank 2
324.2	280	13	Fracture Rank 2
324.4	287	17	Fracture Rank 2
325.0	289	14	Fracture Rank 2
325.1	121	66	Fracture Rank 2
325.6	330	82	Fracture Rank 2
325.8	295	17	Fracture Rank 2
326.3	109	59	Fracture Rank 2
328.5	325	16	Fracture Rank 2
329.0	257	24	Fracture Rank 2
329.8	321	20	Fracture Rank 2
331.2	105	33	Fracture Rank 2
331.6	129	28	Fracture Rank 2
332.0	123	42	Fracture Rank 2
333.3	303	17	Fracture Rank 2
333.8	283	26	Fracture Rank 2
334.1	163	39	Fracture Rank 2
334.4	283	29	Fracture Rank 2
334.7	87	32	Fracture Rank 2
335.6	282	13	Fracture Rank 2
336.4	302	41	Fracture Rank 2
337.0	275	28	Fracture Rank 2
338.5	313	18	Fracture Rank 2
339.1	121	76	Fracture Rank 2
343.1	308	19	Fracture Rank 2
343.3	296	13	Fracture Rank 2
343.6	293	11	Fracture Rank 2
344.2	321	72	Fracture Rank 2
344.6	283	8	Fracture Rank 2
344.7	309	14	Fracture Rank 2
345.2	164	60	Fracture Rank 2
345.4	287	23	Fracture Rank 2
346.2	317	17	Fracture Rank 2
346.7	167	70	Fracture Rank 2
347.0	300	26	Fracture Rank 2
347.2	314	19	Fracture Rank 2
347.4	309	16	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
347.8	313	16	Fracture Rank 2
348.2	314	18	Fracture Rank 2
349.1	310	19	Fracture Rank 2
349.5	296	53	Fracture Rank 2
349.8	284	90	Fracture Rank 2
349.9	282	20	Fracture Rank 2
350.1	301	22	Fracture Rank 2
351.5	290	15	Fracture Rank 2
353.1	286	16	Fracture Rank 2
353.2	54	78	Fracture Rank 2
353.6	295	21	Fracture Rank 2
354.1	290	18	Fracture Rank 2
354.7	325	22	Fracture Rank 2
355.6	156	70	Fracture Rank 2
356.3	317	16	Fracture Rank 2
356.6	325	9	Fracture Rank 2
357.0	309	16	Fracture Rank 2
357.4	327	7	Fracture Rank 2
357.9	307	5	Fracture Rank 2
358.2	87	10	Fracture Rank 2
358.7	148	69	Fracture Rank 1
358.9	340	8	Fracture Rank 2
359.8	279	22	Fracture Rank 2
360.6	111	29	Fracture Rank 2
362.0	324	21	Fracture Rank 2
363.9	299	33	Fracture Rank 2
364.3	178	80	Fracture Rank 1
365.0	309	13	Fracture Rank 2
365.1	311	16	Fracture Rank 2
365.4	294	19	Fracture Rank 2
365.7	306	14	Fracture Rank 2
366.2	323	19	Fracture Rank 2
366.7	311	16	Fracture Rank 2
367.3	273	28	Fracture Rank 2
369.0	83	17	Fracture Rank 2
370.0	41	74	Fracture Rank 2
371.6	317	23	Fracture Rank 2
372.5	299	32	Fracture Rank 2
372.9	116	38	Fracture Rank 2
375.0	318	29	Fracture Rank 2
376.9	307	42	Fracture Rank 2
377.3	301	13	Fracture Rank 2
377.7	106	48	Fracture Rank 2
378.0	293	21	Fracture Rank 2
378.6	294	28	Fracture Rank 2
379.7	47	37	Fracture Rank 1
380.7	82	13	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
381.7	289	28	Fracture Rank 2
384.4	299	30	Fracture Rank 2
387.3	315	13	Fracture Rank 2
388.2	63	16	Fracture Rank 2
388.3	27	6	Fracture Rank 2
389.7	290	71	Fracture Rank 2
390.6	316	8	Fracture Rank 2
390.8	323	17	Fracture Rank 2
390.9	308	10	Fracture Rank 2
391.4	313	18	Fracture Rank 2
392.2	295	10	Fracture Rank 2
392.3	295	11	Fracture Rank 2
393.9	289	8	Fracture Rank 2
394.1	343	21	Fracture Rank 2
394.3	299	11	Fracture Rank 2
394.7	313	17	Fracture Rank 2
396.6	326	7	Fracture Rank 2
397.2	348	16	Fracture Rank 2
399.6	281	31	Fracture Rank 2
400.2	300	18	Fracture Rank 2
401.2	291	18	Fracture Rank 2
402.7	341	4	Fracture Rank 2
404.8	304	12	Fracture Rank 2
405.4	313	15	Fracture Rank 2
405.8	306	12	Fracture Rank 2
407.3	17	10	Fracture Rank 2
407.7	301	11	Fracture Rank 2
408.1	321	15	Fracture Rank 2
409.0	162	7	Fracture Rank 2
409.4	36	20	Fracture Rank 2
409.5	310	9	Fracture Rank 2
410.7	316	7	Fracture Rank 2
411.2	274	15	Fracture Rank 2
411.3	283	11	Fracture Rank 2
412.4	257	34	Fracture Rank 2
412.6	333	3	Fracture Rank 2
412.8	19	6	Fracture Rank 2
413.1	335	6	Fracture Rank 2
413.6	339	12	Fracture Rank 2
413.8	297	13	Fracture Rank 2
414.2	306	18	Fracture Rank 2
414.7	316	18	Fracture Rank 2
415.2	127	71	Fracture Rank 1
416.8	312	19	Fracture Rank 2
417.4	180	70	Fracture Rank 1
417.7	310	16	Fracture Rank 2
419.8	308	12	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
421.9	115	38	Fracture Rank 2
422.1	298	14	Fracture Rank 2
422.5	293	36	Fracture Rank 2
423.0	296	11	Fracture Rank 2
423.3	289	9	Fracture Rank 2
423.8	314	2	Fracture Rank 2
424.0	279	13	Fracture Rank 2
425.4	7	26	Fracture Rank 2
426.1	50	3	Fracture Rank 2
427.2	356	8	Fracture Rank 2
427.7	57	11	Fracture Rank 2
428.0	342	14	Fracture Rank 2
429.2	325	21	Fracture Rank 2
431.4	320	7	Fracture Rank 2
433.1	329	9	Fracture Rank 2
433.7	347	4	Fracture Rank 2
434.9	200	24	Fracture Rank 2
437.8	50	6	Fracture Rank 2
438.4	358	17	Fracture Rank 2
438.7	298	13	Fracture Rank 2
439.2	179	14	Fracture Rank 2
440.5	308	13	Fracture Rank 2
441.3	112	78	Fracture Rank 2
441.4	245	82	Fracture Rank 2
441.4	291	10	Fracture Rank 2
441.7	314	9	Fracture Rank 2
442.1	318	15	Fracture Rank 2
442.3	331	5	Fracture Rank 2
442.9	324	17	Fracture Rank 2
443.2	321	4	Fracture Rank 2
443.5	266	12	Fracture Rank 2
443.7	306	13	Fracture Rank 2
444.5	327	11	Fracture Rank 2
445.1	355	25	Fracture Rank 2
446.1	292	18	Fracture Rank 2
446.3	306	15	Fracture Rank 2
446.3	171	73	Fracture Rank 2
446.8	266	16	Fracture Rank 2
447.5	305	12	Fracture Rank 2
447.6	306	15	Fracture Rank 2
447.9	304	12	Fracture Rank 2
449.9	149	73	Fracture Rank 1
450.2	291	13	Fracture Rank 2
452.4	288	60	Fracture Rank 2
452.8	310	14	Fracture Rank 2
453.0	304	11	Fracture Rank 2
454.4	306	15	Fracture Rank 2

MW-26 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
455.3	337	13	Fracture Rank 2
455.6	313	12	Fracture Rank 2
456.1	200	81	Fracture Rank 1
456.1	304	15	Fracture Rank 2
456.8	335	11	Fracture Rank 2
457.2	268	12	Fracture Rank 2
457.5	317	16	Fracture Rank 2
457.7	338	15	Fracture Rank 2
457.8	105	62	Fracture Rank 2
458.2	270	13	Fracture Rank 2
458.6	311	13	Fracture Rank 2
458.9	147	66	Fracture Rank 1
459.3	354	10	Fracture Rank 2
459.4	287	9	Fracture Rank 2
459.5	330	5	Fracture Rank 2
459.9	304	12	Fracture Rank 2
460.2	335	44	Fracture Rank 2
460.8	327	45	Fracture Rank 2
461.1	317	19	Fracture Rank 2
461.4	294	20	Fracture Rank 2
461.8	311	25	Fracture Rank 3
462.4	136	59	Fracture Rank 2
463.3	256	17	Fracture Rank 2
465.8	287	14	Fracture Rank 2
466.3	18	6	Fracture Rank 2
466.5	320	12	Fracture Rank 2
467.1	308	13	Fracture Rank 2
467.2	309	13	Fracture Rank 2
467.9	293	10	Fracture Rank 2
468.2	257	14	Fracture Rank 2
469.6	138	15	Fracture Rank 2
470.6	314	28	Fracture Rank 2
472.1	293	21	Fracture Rank 2
472.8	308	17	Fracture Rank 2
473.6	333	11	Fracture Rank 2
474.7	304	22	Fracture Rank 2
475.9	158	54	Fracture Rank 2
477.2	107	43	Fracture Rank 2
477.9	311	23	Fracture Rank 2
480.3	311	29	Fracture Rank 2
480.7	294	20	Fracture Rank 2

HAGER-RICHTER GEOSCIENCE, INC.	
MW-27 - TABLE OF BEDROCK FRACTURES	
CLIENT	Louis Berger
PROJECT	South Plainfield Superfund Site
LOCATION	South Plainfield, New Jersey
H-R FILE	15AM46
DATE LOGGED	May 17 & 18, 2016
LOG DATUM	Top of the 6-Inch Steel Casing
DIP AZIMUTH	True North (Magnetic Declination = 13° West)
DIP ANGLE	Measured from Horizontal

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
75.8	287	10	Fracture Rank 2
75.8	111	9	Fracture Rank 2
76.2	324	9	Fracture Rank 2
76.6	307	8	Fracture Rank 2
76.9	326	12	Fracture Rank 2
77.9	317	11	Fracture Rank 2
79.5	318	10	Fracture Rank 1
80.4	269	7	Fracture Rank 2
81.0	303	8	Fracture Rank 2
81.3	307	13	Fracture Rank 2
81.8	268	6	Fracture Rank 2
82.1	73	13	Fracture Rank 2
82.4	282	20	Fracture Rank 1
82.9	32	15	Fracture Rank 1
83.6	336	12	Fracture Rank 1
84.9	105	79	Fracture Rank 1
85.2	301	16	Fracture Rank 2
86.2	102	78	Fracture Rank 1
87.1	338	10	Fracture Rank 2
89.0	268	8	Fracture Rank 2
91.8	322	15	Fracture Rank 3
93.0	278	26	Fracture Rank 3
94.2	321	15	Fracture Rank 2
94.6	95	72	Fracture Rank 1
94.6	80	3	Fracture Rank 1
98.9	308	11	Fracture Rank 2
99.5	292	15	Fracture Rank 1
100.9	300	9	Fracture Rank 2
104.2	313	16	Fracture Rank 1
104.4	330	7	Fracture Rank 2
104.6	329	13	Fracture Rank 2
104.9	317	11	Fracture Rank 2
106.0	337	12	Fracture Rank 1
106.3	338	10	Fracture Rank 2
106.6	325	9	Fracture Rank 2
107.3	353	12	Fracture Rank 2

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
107.4	317	9	Fracture Rank 2
108.2	325	13	Fracture Rank 2
109.4	308	13	Fracture Rank 1
109.5	317	10	Fracture Rank 2
110.3	315	11	Fracture Rank 2
110.5	329	11	Fracture Rank 2
113.8	305	10	Fracture Rank 2
115.2	266	6	Fracture Rank 1
115.5	338	9	Fracture Rank 2
117.1	106	81	Fracture Rank 3
119.4	290	13	Fracture Rank 2
119.7	304	9	Fracture Rank 2
121.0	106	59	Fracture Rank 2
126.0	38	25	Fracture Rank 2
126.6	318	11	Fracture Rank 2
128.5	268	1	Fracture Rank 2
128.8	255	18	Fracture Rank 2
130.8	280	56	Fracture Rank 1
133.3	172	16	Fracture Rank 1
134.7	328	13	Fracture Rank 1
136.7	299	9	Fracture Rank 2
140.2	295	18	Fracture Rank 2
145.2	122	6	Fracture Rank 2
148.0	289	9	Fracture Rank 1
150.6	297	80	Fracture Rank 1
152.8	81	4	Fracture Rank 2
153.5	102	68	Fracture Rank 2
155.0	274	78	Fracture Rank 2
159.0	284	18	Fracture Rank 2
170.6	77	37	Fracture Rank 1
173.7	86	7	Fracture Rank 2
183.2	106	1	Fracture Rank 2
183.6	295	3	Fracture Rank 2
186.5	309	64	Fracture Rank 2
188.0	285	77	Fracture Rank 1
191.1	295	3	Fracture Rank 2
192.8	306	86	Fracture Rank 2
200.7	272	84	Fracture Rank 2
245.5	172	77	Fracture Rank 1
258.0	266	19	Fracture Rank 2
258.7	49	9	Fracture Rank 2
260.8	69	6	Fracture Rank 2
263.2	49	11	Fracture Rank 1
276.1	289	84	Fracture Rank 1
277.9	293	7	Fracture Rank 2
278.3	294	6	Fracture Rank 2
279.7	327	12	Fracture Rank 2

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
279.9	322	15	Fracture Rank 2
280.2	316	19	Fracture Rank 2
285.8	340	12	Fracture Rank 2
288.5	269	3	Fracture Rank 2
289.2	336	22	Fracture Rank 2
290.3	273	9	Fracture Rank 2
291.7	15	9	Fracture Rank 2
292.8	331	17	Fracture Rank 2
293.4	166	71	Fracture Rank 2
294.3	168	5	Fracture Rank 2
294.6	300	16	Fracture Rank 2
294.8	238	5	Fracture Rank 2
295.3	303	19	Fracture Rank 2
295.7	308	18	Fracture Rank 2
295.8	297	12	Fracture Rank 3
296.8	231	9	Fracture Rank 2
298.1	4	5	Fracture Rank 2
298.8	272	8	Fracture Rank 2
299.3	30	3	Fracture Rank 2
299.4	12	4	Fracture Rank 2
301.8	325	15	Fracture Rank 2
302.5	338	6	Fracture Rank 2
302.8	155	27	Fracture Rank 2
304.3	308	78	Fracture Rank 1
306.6	275	4	Fracture Rank 2
307.0	145	4	Fracture Rank 2
307.7	176	10	Fracture Rank 2
309.9	150	72	Fracture Rank 1
312.9	310	13	Fracture Rank 2
313.5	7	16	Fracture Rank 2
314.2	303	12	Fracture Rank 2
314.9	328	14	Fracture Rank 2
315.4	128	59	Fracture Rank 2
316.0	101	16	Fracture Rank 2
317.4	64	7	Fracture Rank 2
318.4	315	14	Fracture Rank 2
320.5	104	79	Fracture Rank 1
321.5	85	7	Fracture Rank 2
323.2	297	24	Fracture Rank 2
324.4	265	3	Fracture Rank 2
324.4	109	72	Fracture Rank 1
325.3	289	3	Fracture Rank 2
326.0	355	8	Fracture Rank 2
327.1	202	8	Fracture Rank 2
328.7	47	7	Fracture Rank 2
329.1	147	10	Fracture Rank 2
330.3	273	13	Fracture Rank 1

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
330.9	43	6	Fracture Rank 2
332.7	209	16	Fracture Rank 2
333.3	285	18	Fracture Rank 2
333.6	308	13	Fracture Rank 2
334.6	279	9	Fracture Rank 3
336.2	309	10	Fracture Rank 2
336.9	284	10	Fracture Rank 2
339.0	335	17	Fracture Rank 2
340.9	283	5	Fracture Rank 2
341.7	295	9	Fracture Rank 2
343.2	304	21	Fracture Rank 1
343.6	281	13	Fracture Rank 1
344.8	305	9	Fracture Rank 1
345.7	345	15	Fracture Rank 1
346.6	318	11	Fracture Rank 1
348.4	238	13	Fracture Rank 2
348.8	301	6	Fracture Rank 2
349.2	317	10	Fracture Rank 1
351.7	305	6	Fracture Rank 2
353.4	313	8	Fracture Rank 2
355.1	302	6	Fracture Rank 2
355.4	307	8	Fracture Rank 2
356.0	331	9	Fracture Rank 2
356.3	306	29	Fracture Rank 2
356.7	323	14	Fracture Rank 2
356.9	319	11	Fracture Rank 2
357.4	318	10	Fracture Rank 2
357.7	312	8	Fracture Rank 1
358.9	310	8	Fracture Rank 2
359.3	318	9	Fracture Rank 2
360.3	294	11	Fracture Rank 2
360.5	314	22	Fracture Rank 2
360.8	311	18	Fracture Rank 2
362.6	311	9	Fracture Rank 2
364.4	283	33	Fracture Rank 2
364.8	345	17	Fracture Rank 2
364.9	281	47	Fracture Rank 2
366.0	310	11	Fracture Rank 2
366.5	323	15	Fracture Rank 2
366.8	267	14	Fracture Rank 2
367.0	1	3	Fracture Rank 2
367.3	314	12	Fracture Rank 2
368.5	297	23	Fracture Rank 2
368.6	304	6	Fracture Rank 2
368.8	316	6	Fracture Rank 2
369.7	314	18	Fracture Rank 2
370.0	164	9	Fracture Rank 2

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
370.4	237	5	Fracture Rank 2
371.5	73	5	Fracture Rank 2
372.4	69	6	Fracture Rank 2
372.7	274	6	Fracture Rank 2
372.8	90	80	Fracture Rank 2
373.0	276	5	Fracture Rank 2
374.8	279	9	Fracture Rank 2
374.9	311	10	Fracture Rank 2
375.6	332	17	Fracture Rank 2
376.1	301	21	Fracture Rank 2
376.7	312	18	Fracture Rank 2
377.0	326	12	Fracture Rank 2
377.6	123	29	Fracture Rank 2
378.4	300	6	Fracture Rank 2
378.5	314	14	Fracture Rank 2
379.8	324	13	Fracture Rank 2
381.4	324	11	Fracture Rank 2
382.1	360	13	Fracture Rank 2
383.9	316	6	Fracture Rank 1
385.3	100	70	Fracture Rank 1
385.9	334	19	Fracture Rank 2
387.1	88	73	Fracture Rank 1
388.1	28	4	Fracture Rank 1
389.1	298	9	Fracture Rank 2
389.8	300	8	Fracture Rank 2
390.6	299	14	Fracture Rank 2
390.8	248	84	Fracture Rank 2
392.0	300	7	Fracture Rank 2
392.2	262	11	Fracture Rank 2
394.1	305	8	Fracture Rank 2
395.3	54	72	Fracture Rank 1
396.4	262	9	Fracture Rank 1
398.4	278	20	Fracture Rank 2
402.4	315	15	Fracture Rank 2
403.5	307	8	Fracture Rank 2
403.7	322	13	Fracture Rank 2
405.7	305	22	Fracture Rank 2
407.2	331	22	Fracture Rank 2
407.5	301	11	Fracture Rank 2
407.8	340	87	Fracture Rank 2
408.6	287	4	Fracture Rank 2
408.8	309	15	Fracture Rank 2
410.7	315	13	Fracture Rank 2
411.4	348	8	Fracture Rank 2
411.9	319	12	Fracture Rank 2
412.3	121	73	Fracture Rank 2
413.2	314	14	Fracture Rank 2

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
414.2	313	58	Fracture Rank 2
416.0	301	13	Fracture Rank 2
416.7	40	7	Fracture Rank 2
417.1	309	13	Fracture Rank 2
418.6	359	11	Fracture Rank 2
419.6	202	5	Fracture Rank 2
420.4	318	23	Fracture Rank 2
421.0	117	73	Fracture Rank 1
421.9	144	72	Fracture Rank 2
422.3	317	11	Fracture Rank 2
422.7	324	16	Fracture Rank 2
423.0	311	9	Fracture Rank 2
423.8	311	10	Fracture Rank 2
424.8	313	6	Fracture Rank 2
425.2	327	5	Fracture Rank 2
425.4	127	71	Fracture Rank 2
425.6	301	7	Fracture Rank 2
426.2	307	11	Fracture Rank 2
426.8	315	20	Fracture Rank 2
427.6	298	7	Fracture Rank 2
431.2	326	4	Fracture Rank 2
433.1	301	7	Fracture Rank 2
433.7	343	12	Fracture Rank 2
435.7	271	11	Fracture Rank 2
436.2	272	8	Fracture Rank 2
436.4	275	13	Fracture Rank 2
437.1	228	4	Fracture Rank 2
437.5	320	5	Fracture Rank 1
437.7	211	1	Fracture Rank 2
438.4	278	6	Fracture Rank 2
440.0	243	10	Fracture Rank 2
441.0	316	8	Fracture Rank 2
441.6	279	7	Fracture Rank 2
442.7	203	2	Fracture Rank 2
443.2	2	10	Fracture Rank 2
444.3	358	4	Fracture Rank 2
447.3	303	9	Fracture Rank 2
447.5	313	17	Fracture Rank 2
448.0	293	11	Fracture Rank 2
448.7	301	8	Fracture Rank 2
449.9	301	8	Fracture Rank 2
450.1	300	13	Fracture Rank 2
450.8	318	13	Fracture Rank 2
452.8	320	20	Fracture Rank 2
453.7	308	9	Fracture Rank 2
454.2	154	69	Fracture Rank 2
454.8	74	9	Fracture Rank 2

MW-27 - TABLE OF BEDROCK FRACTURES

Depth (Feet)	Dip Azimuth (Degrees)	Dip Angle (Degrees)	Bedrock Structure Category
456.7	110	17	Fracture Rank 2
457.0	134	37	Fracture Rank 2
458.1	301	7	Fracture Rank 2
459.2	257	11	Fracture Rank 2
459.5	59	12	Fracture Rank 2
463.4	174	73	Fracture Rank 1
463.4	314	11	Fracture Rank 2
463.9	310	9	Fracture Rank 2
464.6	307	8	Fracture Rank 2
465.7	296	8	Fracture Rank 2
465.9	296	10	Fracture Rank 2
467.4	302	11	Fracture Rank 2
468.7	46	81	Fracture Rank 1
470.1	309	10	Fracture Rank 2
470.3	280	10	Fracture Rank 2
472.0	86	45	Fracture Rank 2
473.8	153	68	Fracture Rank 1
474.1	335	86	Fracture Rank 2
474.3	112	15	Fracture Rank 2
475.4	321	14	Fracture Rank 2
475.6	326	19	Fracture Rank 2
476.6	305	15	Fracture Rank 2
477.2	33	75	Fracture Rank 1
477.9	313	18	Fracture Rank 2
478.8	3	18	Fracture Rank 2

HAGER-RICHTER GEOSCIENCE, INC.

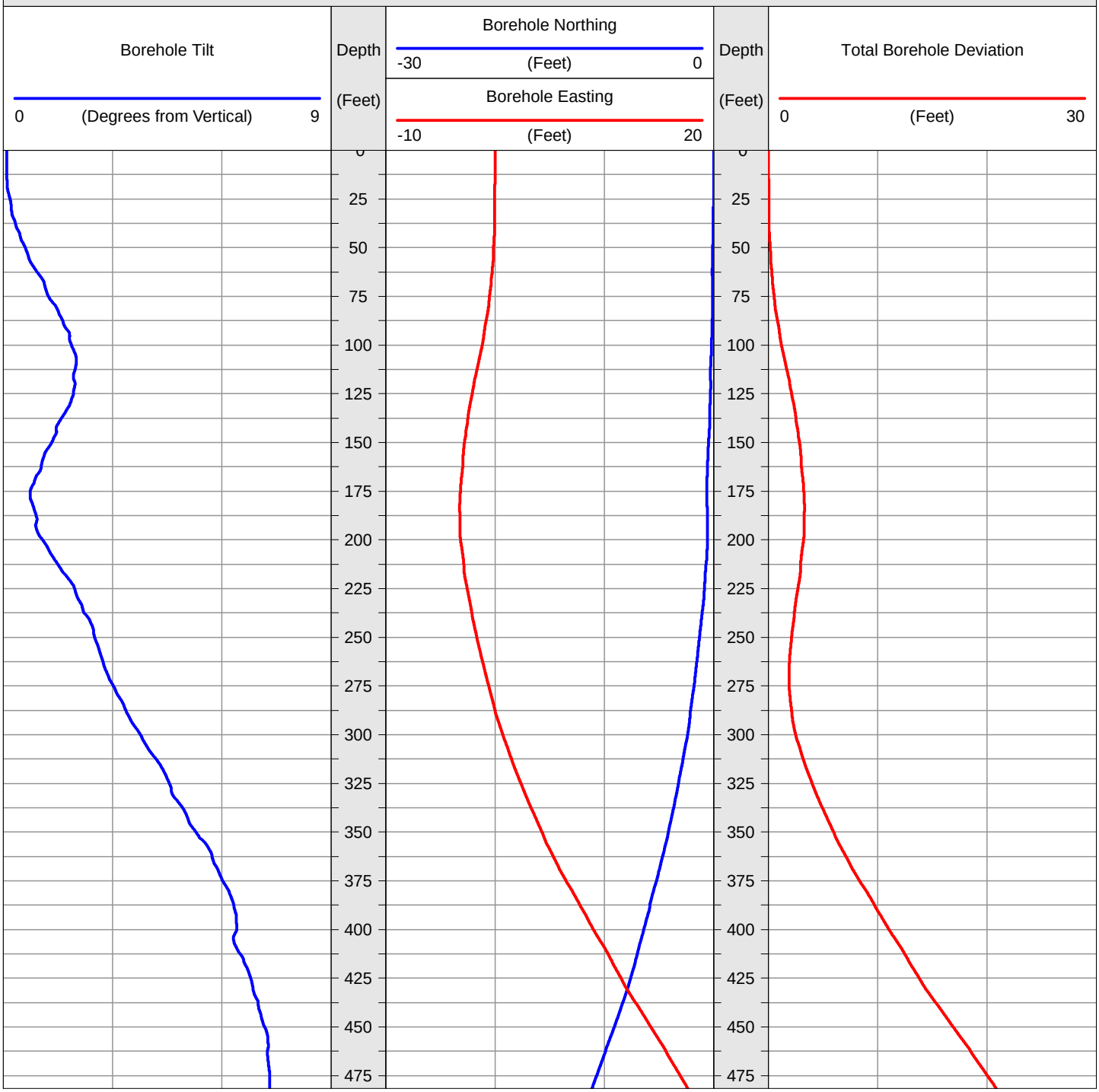
846 Main Street
Fords, NJ 08863
Phone: 732-661-0555
Fax: 732-661-0123

MW-24 - BOREHOLE DEVIATION LOGS

DATE(S) LOGGED: May 18 & 19, 2016

CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North
GEOPHYSICISTS:	N. DeCristofaro & M. Aarnio	MAGNETIC DECLINATION:	13° West

MW-24 - Borehole Deviation Logs



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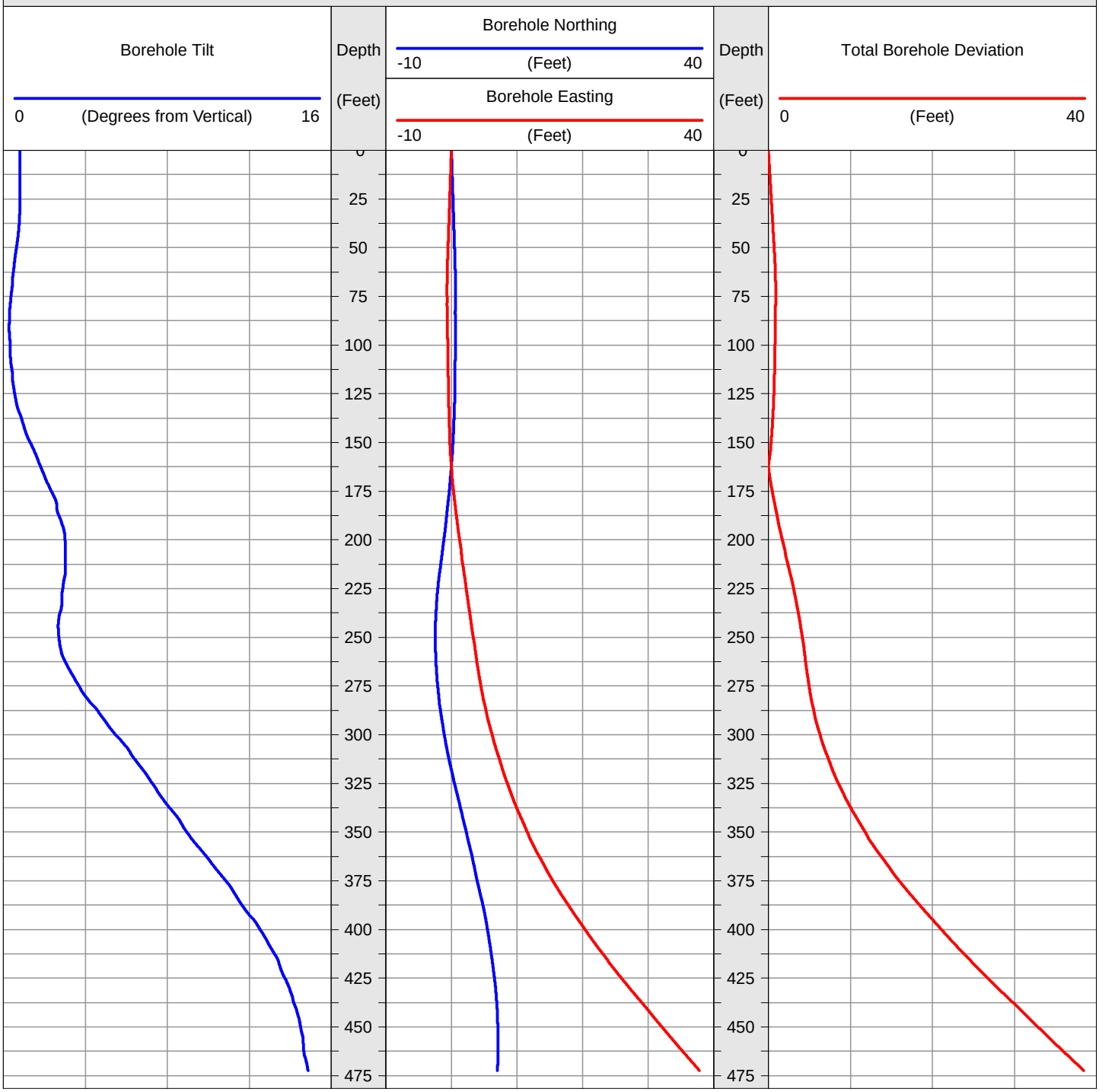
846 Main Street
Fords, NJ 08863
Phone: 732-661-0555
Fax: 732-661-0123

MW-25 - BOREHOLE DEVIATION LOGS

DATE(S) LOGGED: May 16, 2016

CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North
GEOPHYSICISTS:	N. DeCristofaro & J. Gaszynski	MAGNETIC DECLINATION:	13° West

MW-25 - Borehole Deviation Logs



HAGER-RICHTER GEOSCIENCE, INC.

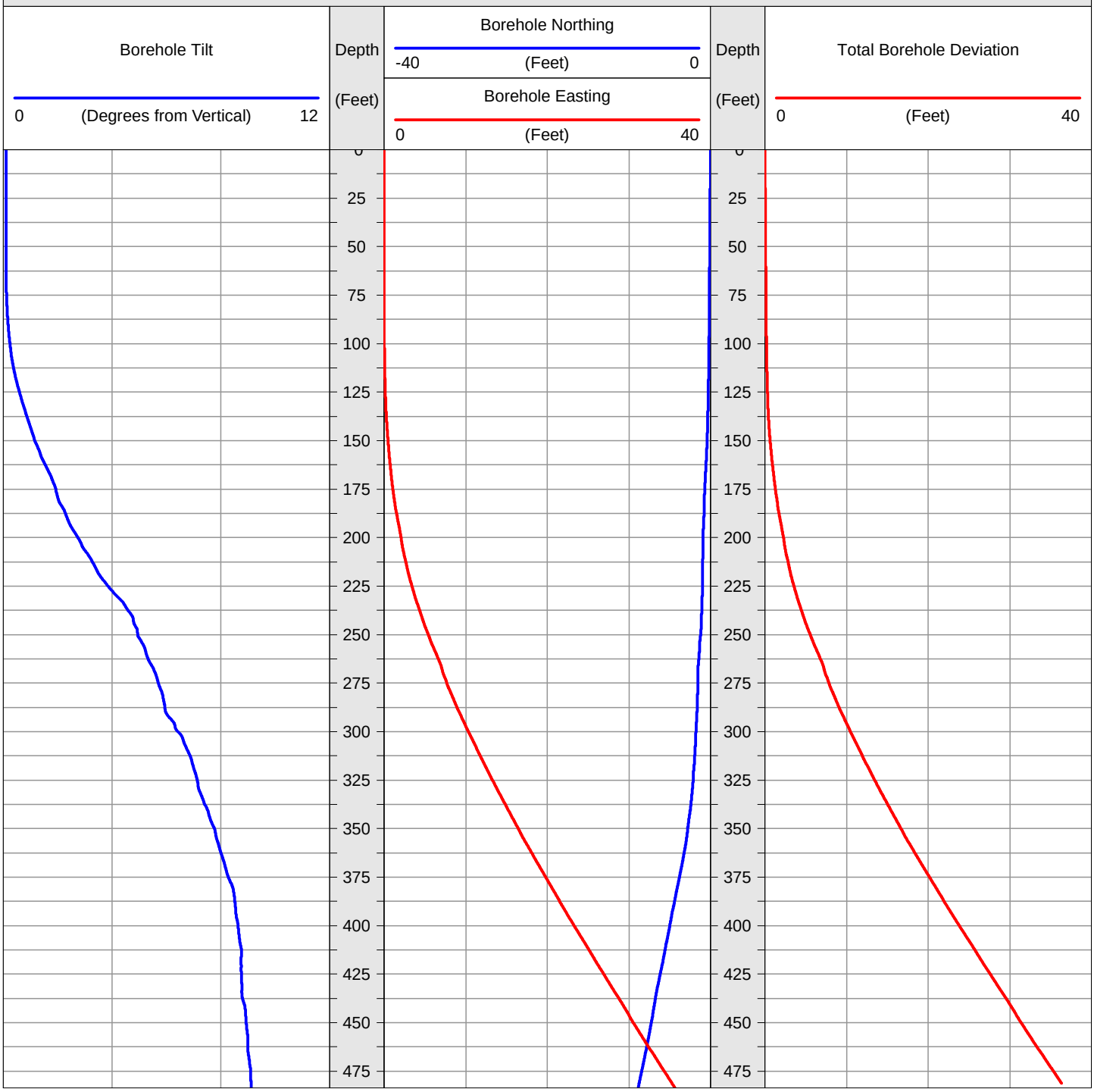
846 Main Street
Fords, NJ 08863
Phone: 732-661-0555
Fax: 732-661-0123

MW-26 - BOREHOLE DEVIATION LOGS

DATE(S) LOGGED: May 17, 2016

CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North
GEOPHYSICISTS:	N. DeCristofaro & M. Aarnio	MAGNETIC DECLINATION:	13° West

MW-26 - Borehole Deviation Logs



HAGER-RICHTER GEOSCIENCE, INC.

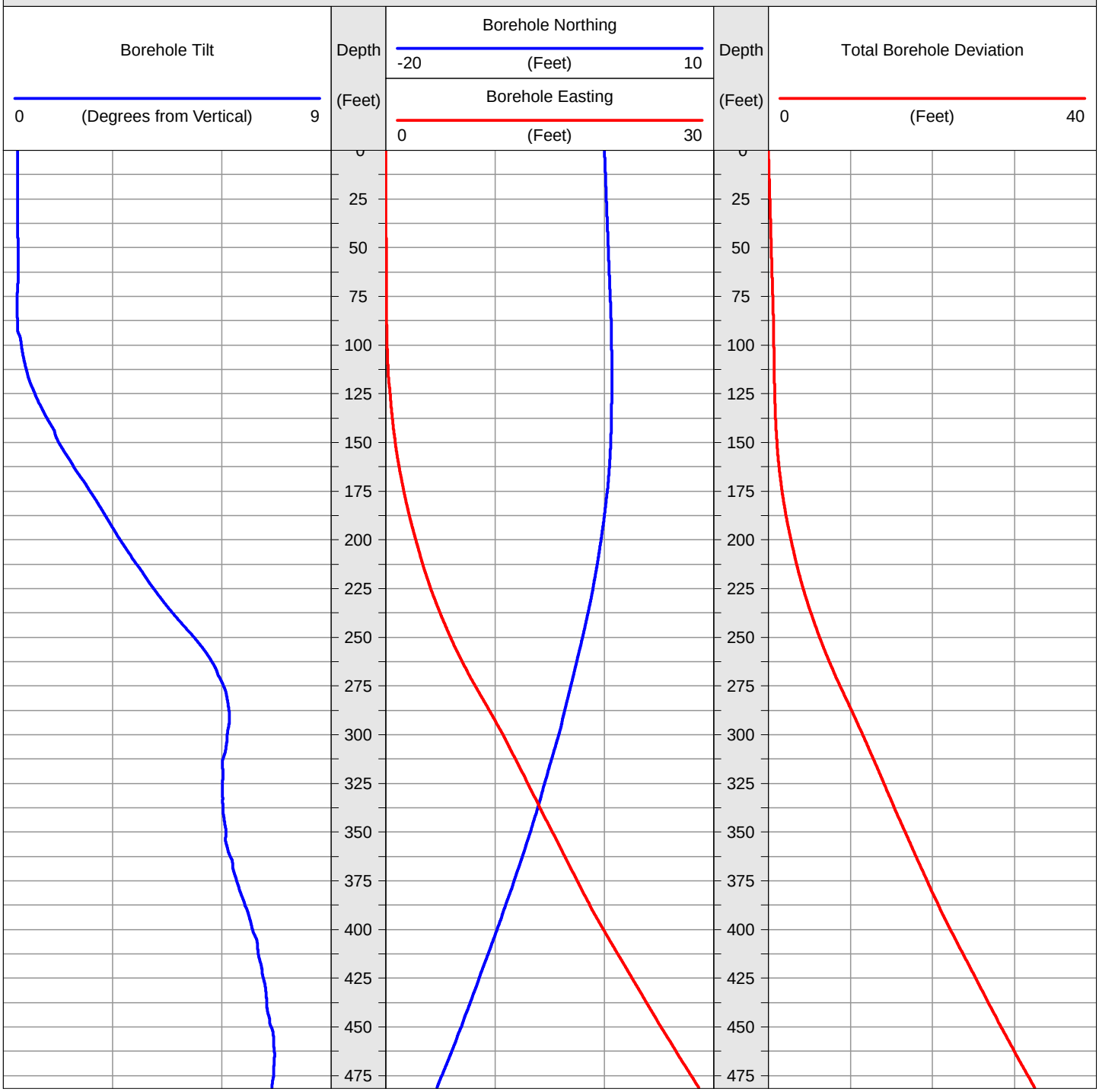
846 Main Street
Fords, NJ 08863
Phone: 732-661-0555
Fax: 732-661-0123

MW-27 - BOREHOLE DEVIATION LOGS

DATE(S) LOGGED: May 17 & 18, 2016

CLIENT:	Louis Berger	HAGER-RICHTER FILE:	15AM46
PROJECT:	Cornell-Dubilier Electronics Superfund Site	LOG DATUM:	Top of the Steel Casing
LOCATION:	South Plainfield, New Jersey	ORIENTATION REFERENCE:	True North
GEOPHYSICISTS:	N. DeCristofaro & M. Aarnio	MAGNETIC DECLINATION:	13° West

MW-27 - Borehole Deviation Logs



Appendix D – Borehole Characterization Logs

Well ID: MW-24

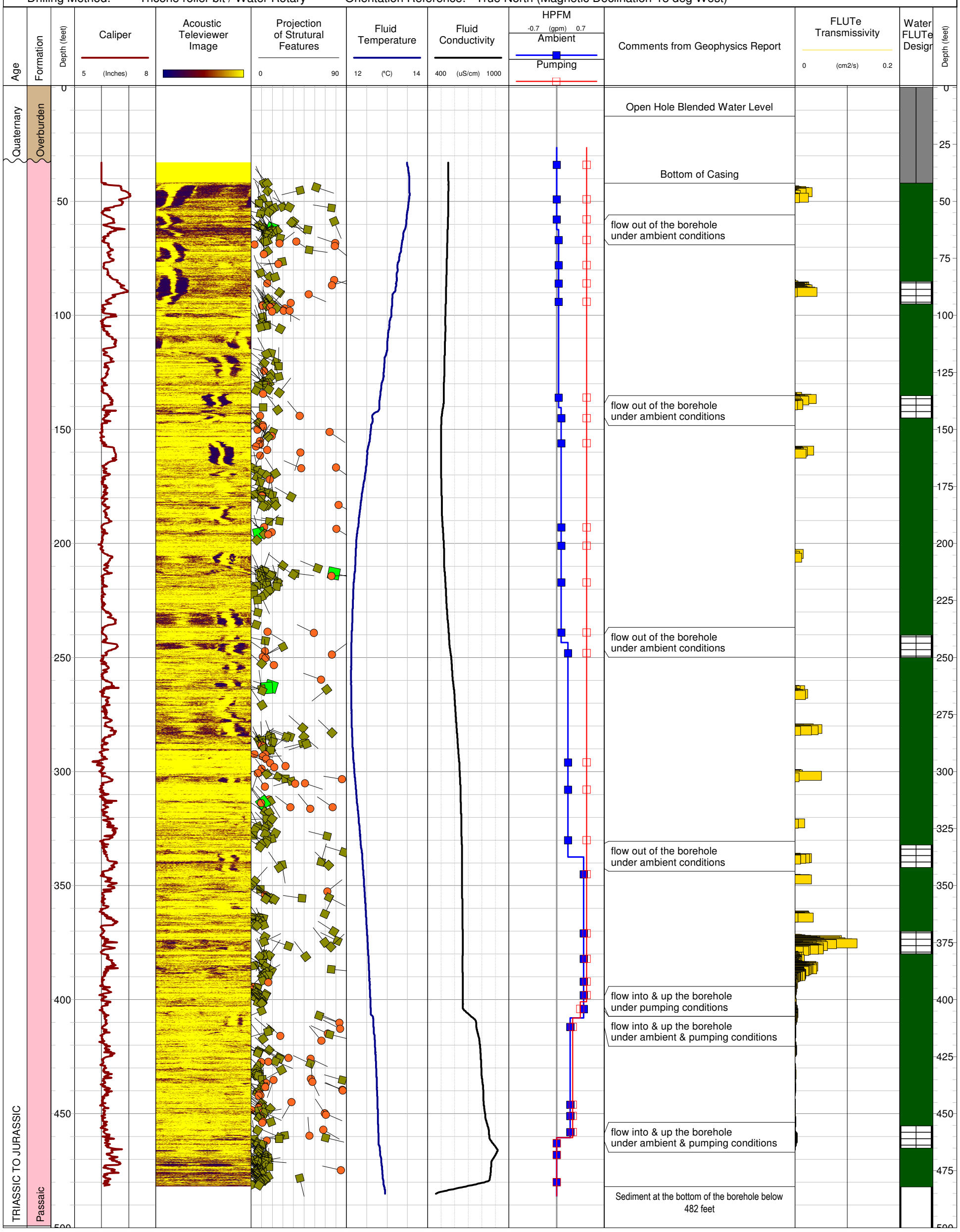
Project Name: Cornell-Dublier Electronics Superfund Site
Project Number: 2001764.019.02.3002
Location: South Plainfield
Well Completion: Flushmount Water FLUTe MLS

Louis Berger
565 Taxter Road,
Suite #510
Elmsford, NY
10523
+1.914.798.3710

Drilling and Survey Details:

23/08/16 Draft Logs

Total Drill Length: 501'
Casing Length: 42'
Drilling Method: Tricone roller bit / Water Rotary
Borehole Diameter: 6"
Log Reference Depth: Top of 6' Casing (0.8' below concrete pad)
Orientation Reference: True North (Magnetic Declination-13 deg West)
Survey Projection: NAD 1983
X: Y:



Legend:

Minor Fracture
Intermediate Fracture
Major Fracture

Well ID: MW-25

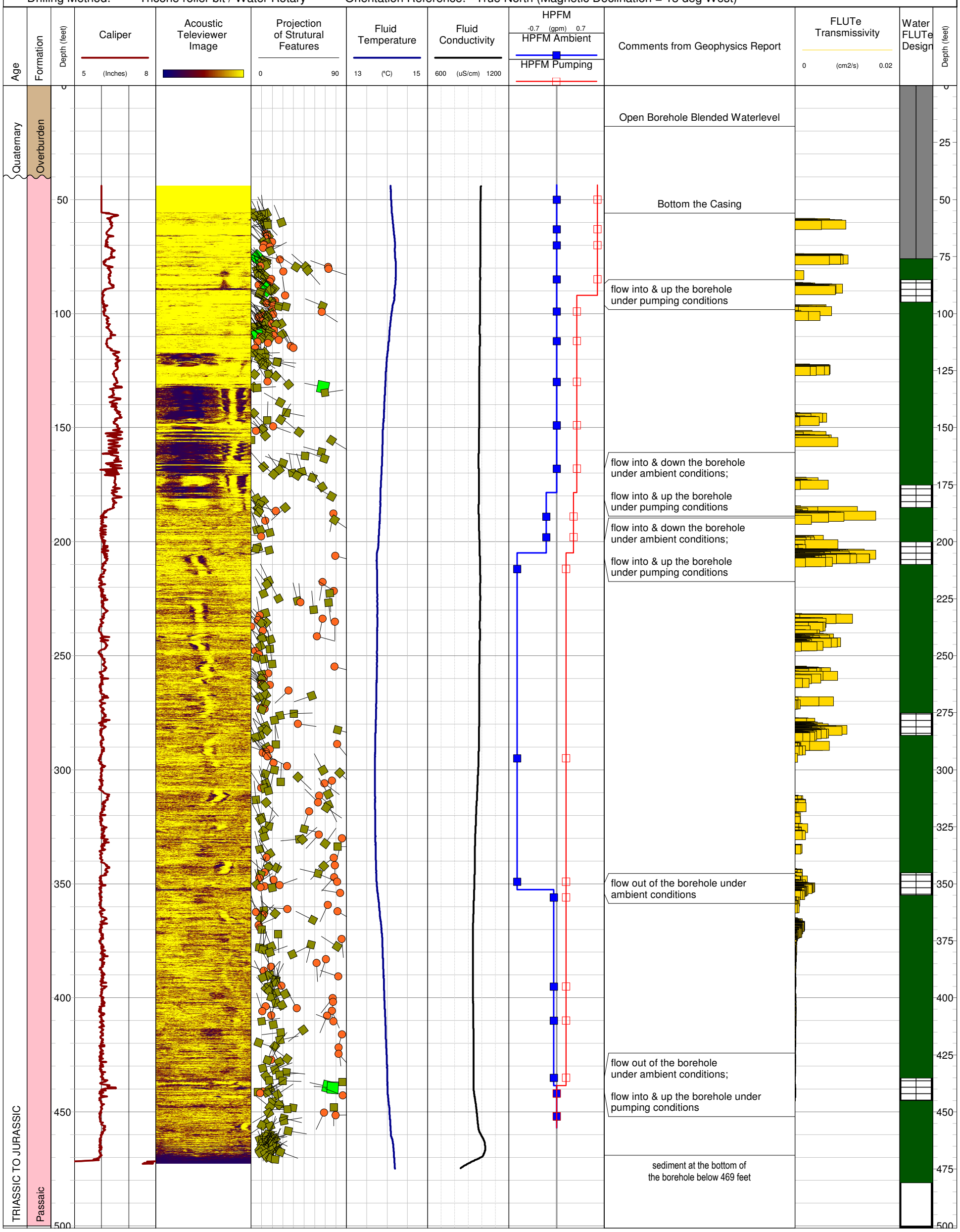
Project Name: Cornell-Dublier Electronics Superfund Site
Project Number: 2001764.019.02.3002
Location: South Plainfield
Well Completion: Stickup Water FLUTe MLS

Louis Berger
565 Taxter Road,
Suite #510
Elmsford, NY
10523
+1.914.798.3710

Drilling and Survey Details:

23/08/16 Draft Logs

Total Drill Length: 500'
Casing Length: 56'
Drilling Method: Tricone roller bit / Water Rotary
Borehole Diameter: 6"
Log Reference Depth: Top of 6" casing (1.4' above top of concrete pad)
Orientation Reference: True North (Magnetic Declination = 13 deg West)
Survey Projection:
X: Y:



Legend:

Minor Fracture
Intermediate Fracture
Major Fracture

Well ID: MW-26

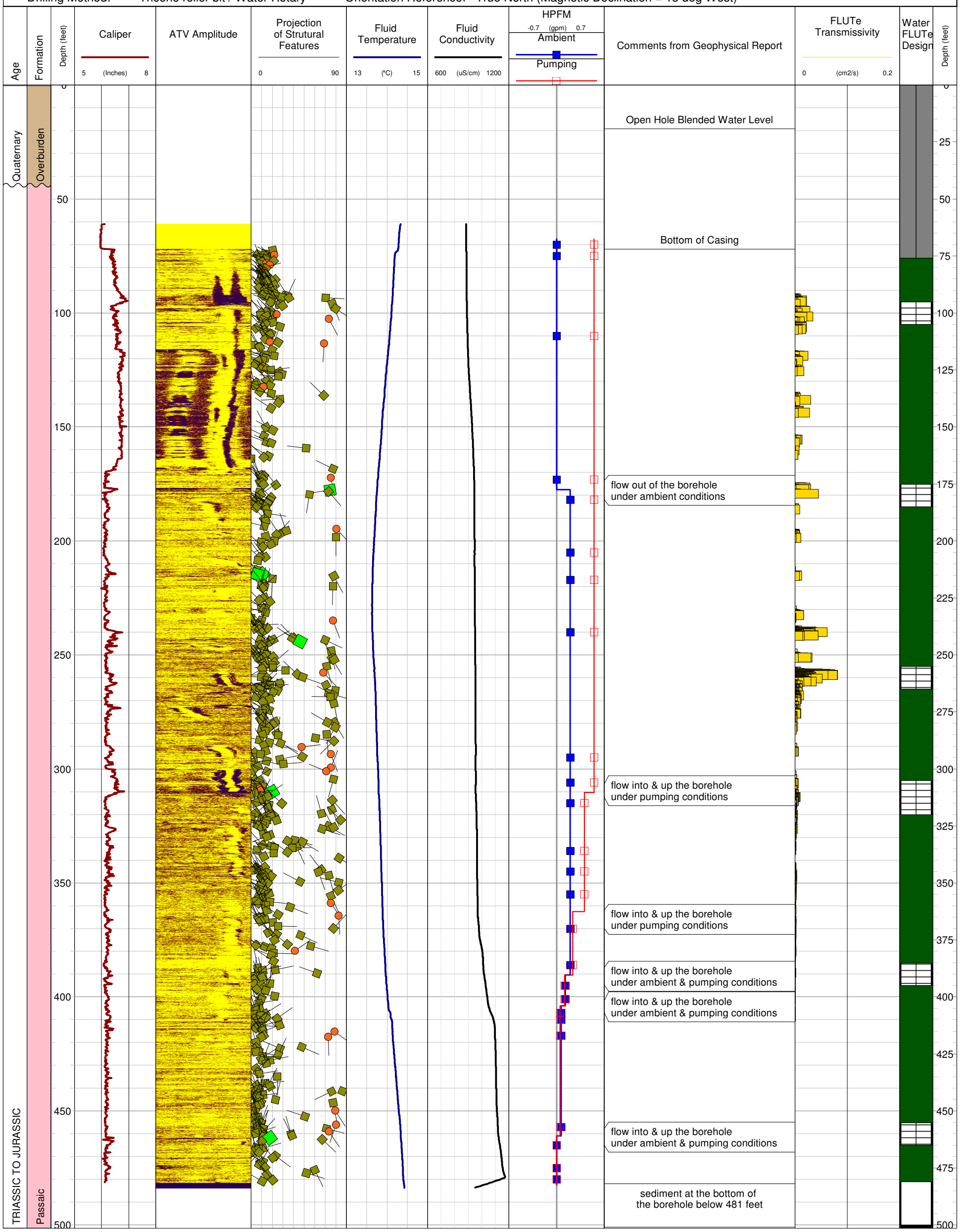
Project Name: Cornell-Dublier Electronics Superfund Site
Project Number: 2001764.019.02.3002
Location: South Plainfield
Well Completion: Flushmount Water FLUTe MLS

Louis Berger
565 Taxter Road,
Suite #510
Elmsford, NY
10523
+1.914.798.3710

Drilling and Survey Details:

23/08/16 Draft Logs

Total Drill Length:	501'	Borehole Diameter:	6"	Survey Projection:	
Casing Length:	76'	Log Reference Depth:	Top of 6" casing (0.4' above top of concrete pad)	X:	Y:
Drilling Method:	Tricone roller bit / Water Rotary	Orientation Reference:	True North (Magnetic Declination = 13 deg West)		



Legend:

Minor Fracture Intermediate Fracture Major Fracture

Well ID: MW-27

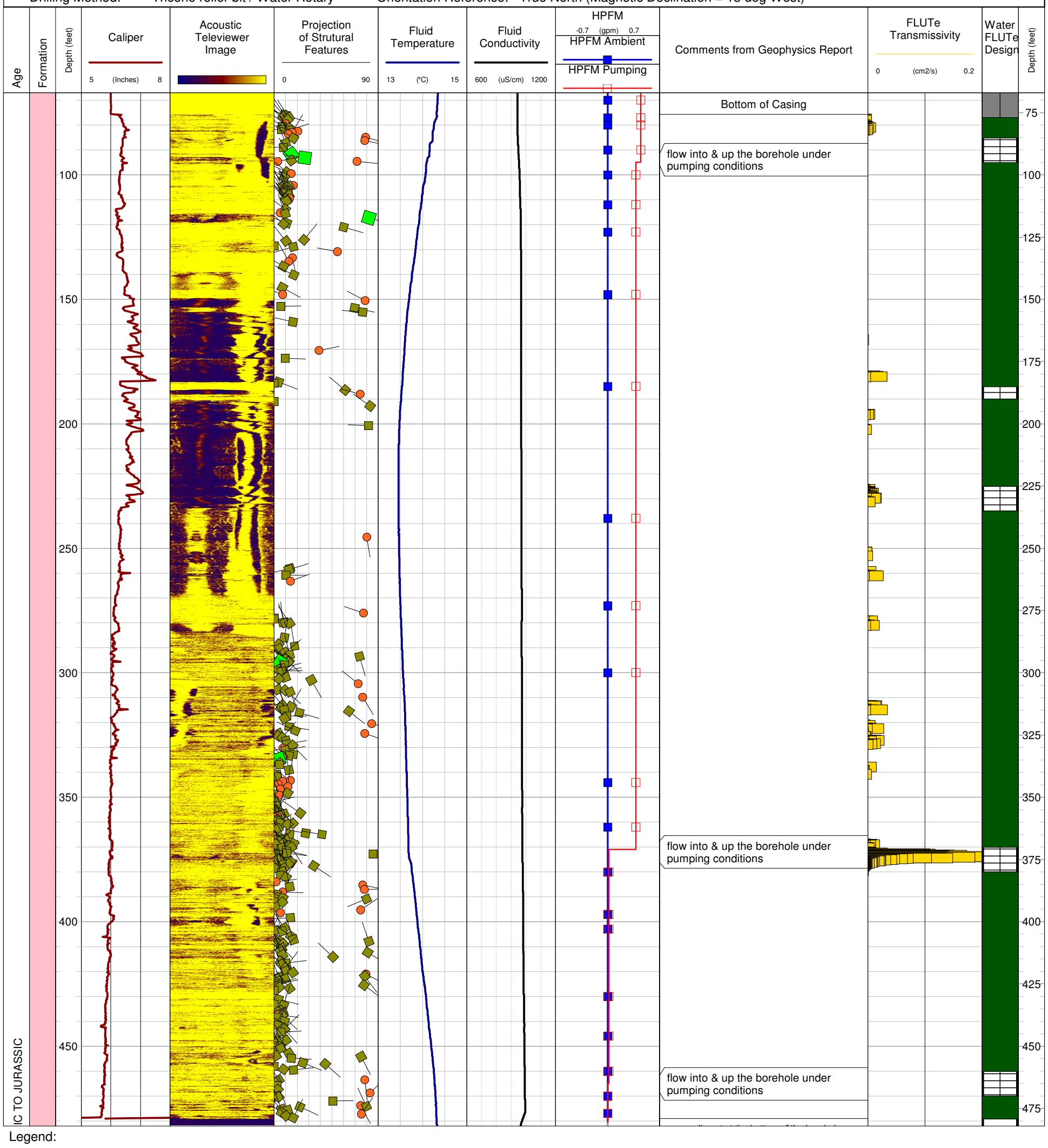
Project Name: Cornell-Dublier Electronics Superfund Site
Project Number: 2001764.019.02.3002
Location: South Plainfield
Well Completion: Flushmount Water FLUTe MLS

Louis Berger
565 Taxter Road,
Suite #510
Elmsford, NY
10523
+1.914.798.3710

Drilling and Survey Details:

23/08/16 Draft Logs

Total Drill Length:	500'	Borehole Diameter:	6"	Survey Projection:	
Casing Length:	77'	Log Reference Depth:	Top of 6" casing (0.5' below top of concrete pad)	X:	Y:
Drilling Method:	Tricone roller bit / Water Rotary	Orientation Reference:	True North (Magnetic Declination = 13 deg West)		



Legend:

Minor Fracture Intermediate Fracture Major Fracture

Appendix E – Boring Logs and FLUTe™ Liner Designs (As-Constructed) - MW-24 through MW-27

Groundwater Monitoring Well Drilling Log

MW-24

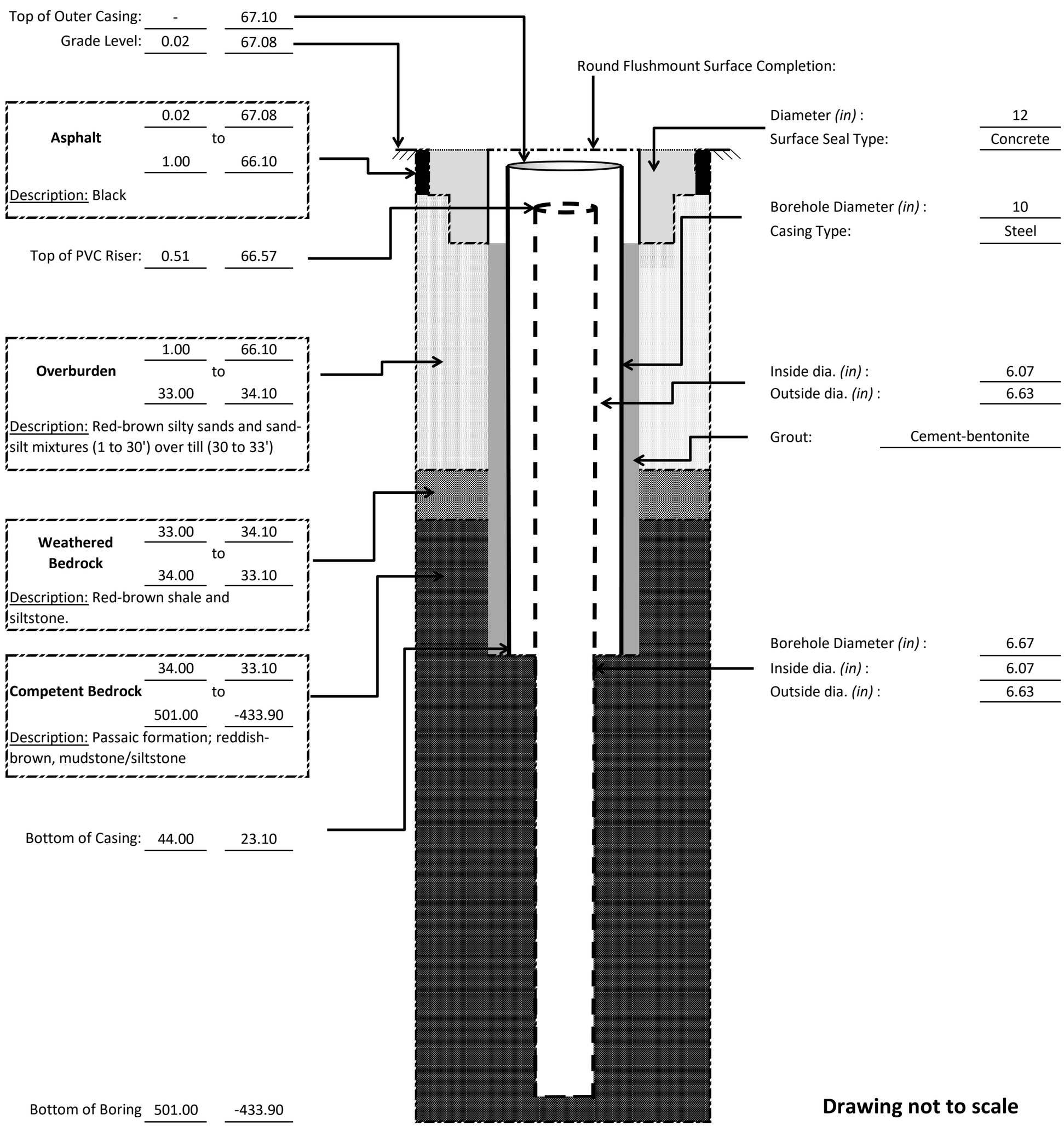
Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

Project: CDE OU3 Groundwater RD
Drilling Contractor: Advanced Drilling, Inc
Drilling Method: Mud Rotary
Drill Equipment: Failing SS25

Monitoring Well (MW)
Type: FLUSHMOUNT

Borehole Data		Well Data			
Diameter (0 to 44 ft) (in):	10	**Total Depth (ft):**	467	**Date Started:**	4/5/2016
Diameter (44 to 501 ft) (in):	6	**Well Type:**	FLUTe™ Multi-Port	**Date Finished:**	4/20/2016
Total Depth (ft)	501	**Blank Liner Installed (y/n):**	Yes	**Driller:**	J. Meixsell, A. Alberalla
Sampler:	N/A	**Date Blank Liner Installed:**	4/21/2016	**Inspector:**	D. Cuomo
Depth to Weathered Rock (ft):	33	**Permit No:**	E201603283	**Northing:**	638899.68
Depth to Competent Rock (ft):	34	**Development Method:**	Pump	**Easting:**	515169.23
				Ground Elevation:	67.08
				Top of Casing Elevation:	67.10

Characteristic	Depth (ft bgs)	Elevation (ft msl)	Description



Bedrock Multilevel Monitoring Well - As Constructed

MW-24

Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

Louis Berger

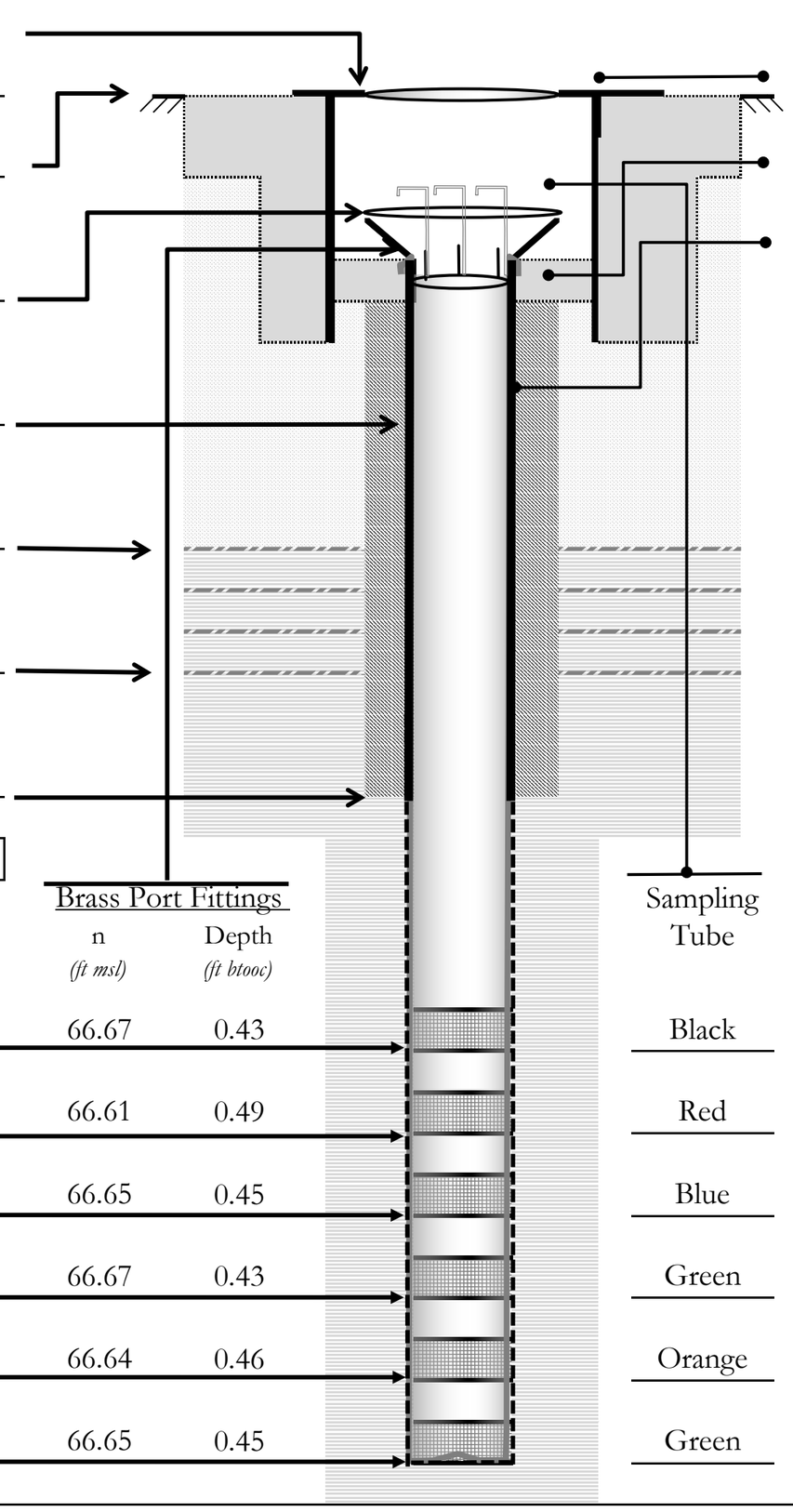
Drilling:		4/5/2016 -	4/20/2016	**Drilling Reference Point:**
Borehole dia. (in):	6	Northing:	638899.68	**TOP OF GROUND SURFACE**
Drilling Method:	Tricone Rotary	Easting:	515169.23	
Drill Depth (ft):	501.00			
Development/Temporary Liner Installation:		4/21/2016 -	4/22/2016	**Water-Level Reference Point:**
Development Method:	Stepped Volume Purge 3X Well Volume			**TOP OF OUTER CASING**

Well Completion:

Manufacturer:	Flexible Liner Underground Technologies, LLC (FLUTe™)	Installation Date:	
Model:	Water FLUTe™ MLS	Water Table Depth (ft):	13.6
Length (ft):	485	Hole Depth (ft):	483.00
Ports (#):	6	Installation Depth (ft):	483.00
Ports are oriented in increasing order clockwise from the tag-line tube		Mud Slug (ft):	no

Survey Details:

	Depth *(ft btooc)*	Elevation *(ft msl)*
Top of Outer Casing (ToOC)	-	67.10
Grade Level	0.02	67.08
Top of PVC Riser	0.53	66.57
Target Liner Water Level	2.75	64.35
Base of Overburden	33.02	34.08
Base of Weathered Bedrock	34.02	33.08
Bottom of Casing	44.02	23.08



Casing and Completion Details:

Round Flushmount Surface Completion	
Diameter *(in)*:	12
Surface Seal Type:	Concrete
Casing Construction:	
Borehole Diameter *(in)*:	10
Casing Type:	Steel
Inside dia. *(in)*:	6.07
Outside dia. *(in)*:	6.63
Grout:	Cement-bentonite

Purging and Sampling Parameters:

Simultaneous Purge Ports?:	yes
Buoyancy Ratio:	0.8217
Purge Pressure *(psi)*:	59
Sampling Pressure *(psi)*:	42

Monitoring Intervals: / **Sampling Port Information:**

Port #	Top Depth *(ft btooc)*	Bottom Depth *(ft btooc)*	Top Elevation *(ft msl)*	Bottom Elevation *(ft msl)*	Brass Port Fittings Elevation *(ft msl)*	Brass Port Fittings Depth *(ft btooc)*	Sampling Tube	Pump Depth *(ft btooc)*	Purge Volume *(L)*	Minimum Discard *(L)*
1	85.00	95.00	-17.90	-27.90	66.67	0.43	Black	108.60	4.23	0.23
2	135.00	145.00	-67.90	-77.90	66.61	0.49	Red	109.60	4.30	0.25
3	240.00	250.00	-172.90	-182.90	66.65	0.45	Blue	110.60	4.34	0.25
4	335.00	342.00	-267.90	-274.90	66.67	0.43	Green	111.60	4.39	0.25
5	370.00	380.00	-302.90	-312.90	66.64	0.46	Orange	112.60	4.43	0.26
6	455.00	465.00	-387.90	-397.90	66.65	0.45	Green	113.60	4.47	0.26

Manufacturer's Reccomendations

Liner water level should be checked to ensure it is maintained at ten (10) feet above the highest previously tagged port water level before beginning the sampling proc
Four total purge strokes are recommended to remove water that may have been in long contact with the liner or spacer before sampling and taking head measuremen
If head measurements are made between sampling events, each port should be first be purged one stroke to allow the tubing to refill to the current head value.

Groundwater Monitoring Well Drilling Log

MW-25

Project: Cornell - Dubilier Electronics Superfund Site

Louis Berger Job Number: 2001764.019.02.3002

Client: USACE/USEPA

Project: CDE OU3 Groundwater RD
Drilling Contractor: Advanced Drilling, Inc
Drilling Method: Mud Rotary
Drill Equipment: Failing SS25 (0 to 216'); CME-95 (216 to 500')

Monitoring Well (MW)
Type: STICK-UP

Borehole Data		Well Data			
Diameter (0 to55 ft) (in):	10	**Total Depth (ft):**	444	**Date Started:**	4/25/2016
Diameter (55 to 500 ft) (in):	6	**Well Type:**	FLUTe™ Multi-Port	**Date Finished:**	5/9/2016
Total Depth (ft)	500	**Blank Liner Installed (y/n):**	Yes	**Driller:**	R. Empson, D. Lorenzi / J. Meixsell, A. Alberalla
Sampler:	N/A	**Date Blank Liner Installed:**	5/11/2016	**Inspector:**	D. Cuomo
Depth to Weathered Rock (ft):	40	**Permit No:**	E201604831	**Northing:**	640432.21
	45	**Development Method:**	Pump	**Easting:**	517624.26
				Ground Elevation:	66.58
				Top of Casing Elevation:	68.92

Characteristic		Description
Depth (ft bgs)	**Elevation (ft msl)**	

Top of Outer Casing: - 68.92
Top of PVC Riser: 0.70 68.22

Grade Level: 2.34 66.58

Topsoil 2.34 to 1.00 — 66.58 to 65.58
Description: Brown

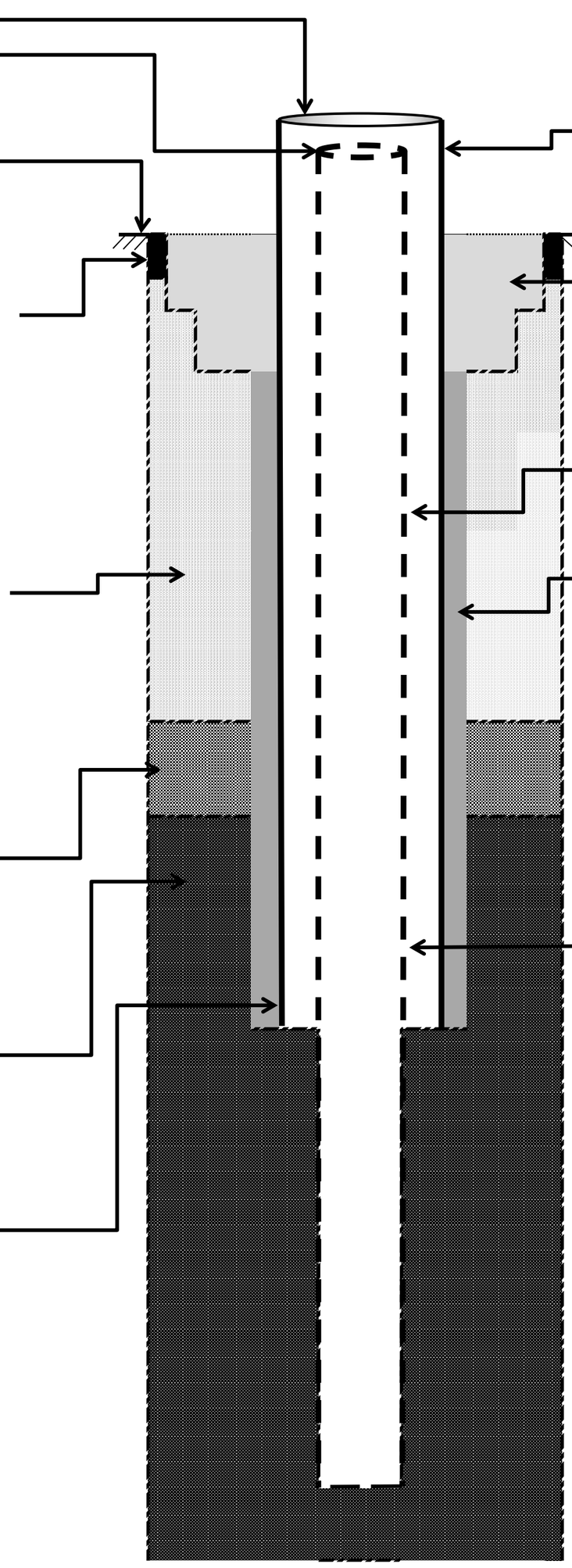
Overburden 1.00 to 40.00 — 65.58 to 26.58
Description: Red-brown silty sands and sand-silt mixtures

Weathered Bedrock 40.00 to 45.00 — 26.58 to 21.58
Description: Red-brown shale and siltstone.

Competent Bedrock 45.00 to 500.00 — 21.58 to -433.42
Description: Passaic formation; reddish-brown, mudstone/siltstone

Bottom of Casing: 55.00 11.58

Bottom of Boring 500.00 -500.00



Round Stick-Up Completion:
Borehole Diameter *(in)* : 10
Casing Diameter *(in)* : 10
Casing Type: Steel

Square Surface Pad *(in)* : 24
Surface Seal Type: Concrete

Inside dia. *(in)* : 6.07
Outside dia. *(in)* : 6.63

Grout: Cement-bentonite

Borehole Diameter *(in)* : 6.67
Inside dia. *(in)* : 6.07
Outside dia. *(in)* : 6.63

Drawing not to scale

Bedrock Multilevel Monitoring Well - As Constructed

MW-25

Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

Louis Berger

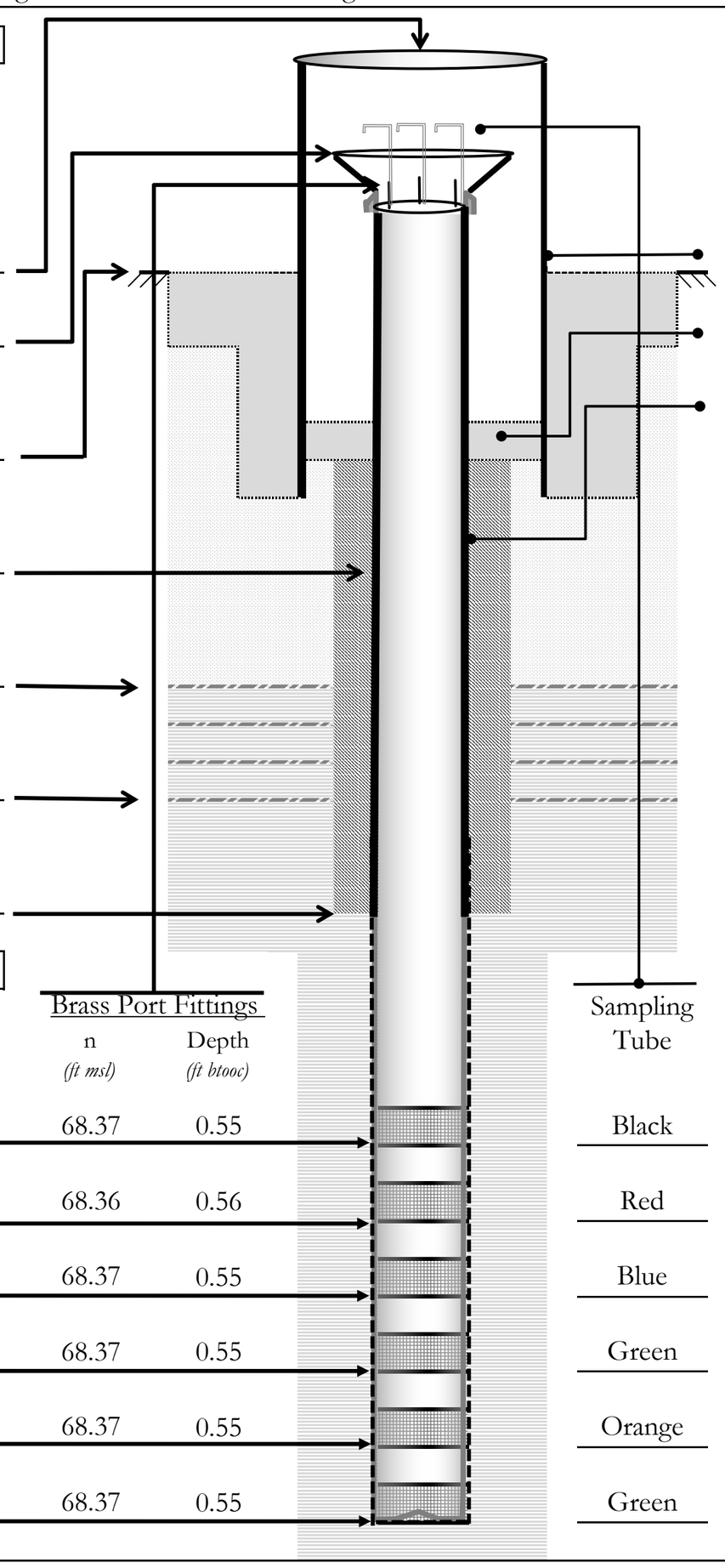
Drilling:		4/25/2016 - 5/9/2016		**Drilling Reference Point:**
Borehole dia. (in):	6	Northing:	640432.21	**TOP OF GROUND SURFACE**
Drilling Method:	Tricone Rotary	Easting:	517624.26	
Drill Depth (ft):	501.00			
Development/Temporary Liner Installation:		5/10/2016 - 5/11/2016		**Water-Level Reference Point:**
Development Method:	Stepped Volume Purge 3X Well Volume			**TOP OF OUTER CASING**

Well Completion:

Manufacturer:	Flexible Liner Underground Technologies, LLC (FLUTe™)	Installation Date:	
Model:	Water FLUTe™ MLS	Water Table Depth (ft):	19.04
Length (ft):	474	Hole Depth (ft):	474.00
Ports (#):	6	Installation Depth (ft):	474.00
Ports are oriented in increasing order clockwise from the tag-line tube		Mud Slug (ft):	no

Survey Details:

	Depth *(ft btooc)*	Elevation *(ft msl)*
Top of Outer Casing (ToOC)	-	68.92
Top of PVC Riser	0.70	68.22
Grade Level	1.64	66.58
Target Liner Water Level	10.16	58.76
Base of Overburden	42.34	26.58
Base of Weathered Bedrock	47.34	21.58
Bottom of Casing	57.34	11.58



Casing and Completion Details:

Round Flushmount Surface Completion	
Diameter *(in)*:	12
Surface Seal Type:	Concrete
Casing Construction:	
Borehole Diameter *(in)*:	10
Casing Type:	Steel
Inside dia. *(in)*:	6.07
Outside dia. *(in)*:	6.63
Grout:	Cement-bentonite

Purging and Sampling Parameters:

Simultaneous Purge Ports?:	yes
Buoyancy Ratio:	0.8266
Purge Pressure *(psi)*:	62
Sampling Pressure *(psi)*:	44

Monitoring Intervals: / **Sampling Port Information:**

Port #	Top Depth *(ft btooc)*	Bottom Depth *(ft btooc)*	Top Elevation *(ft msl)*	Bottom Elevation *(ft msl)*	Brass Port Fittings Elevation *(ft msl)*	Brass Port Fittings Depth *(ft btooc)*	Sampling Tube	Pump Depth *(ft btooc)*	Purge Volume *(L)*	Minimum Discard *(L)*
1	87.34	97.34	-18.42	-28.42	68.37	0.55	Black	116.38	4.23	0.23
2	177.34	187.34	-108.42	-118.42	68.36	0.56	Red	117.38	4.30	0.25
3	202.34	212.34	-133.42	-143.42	68.37	0.55	Blue	118.38	4.34	0.25
4	277.34	287.34	-208.42	-218.42	68.37	0.55	Green	119.38	4.39	0.25
5	347.34	357.34	-278.42	-288.42	68.37	0.55	Orange	120.38	4.43	0.26
6	437.34	447.34	-368.42	-378.42	68.37	0.55	Green	121.38	4.47	0.26

Manufacturer's Reccomendations

Liner water level should be checked to ensure it is maintained at ten (10) feet above the highest previously tagged port water level before beginning the sampling proc
Four total purge strokes are recommended to remove water that may have been in long contact with the liner or spacer before sampling and taking head measuremen
If head measurements are made between sampling events, each port should be first be purged one stroke to allow the tubing to refill to the current head value.

Groundwater Monitoring Well Drilling Log

MW-26

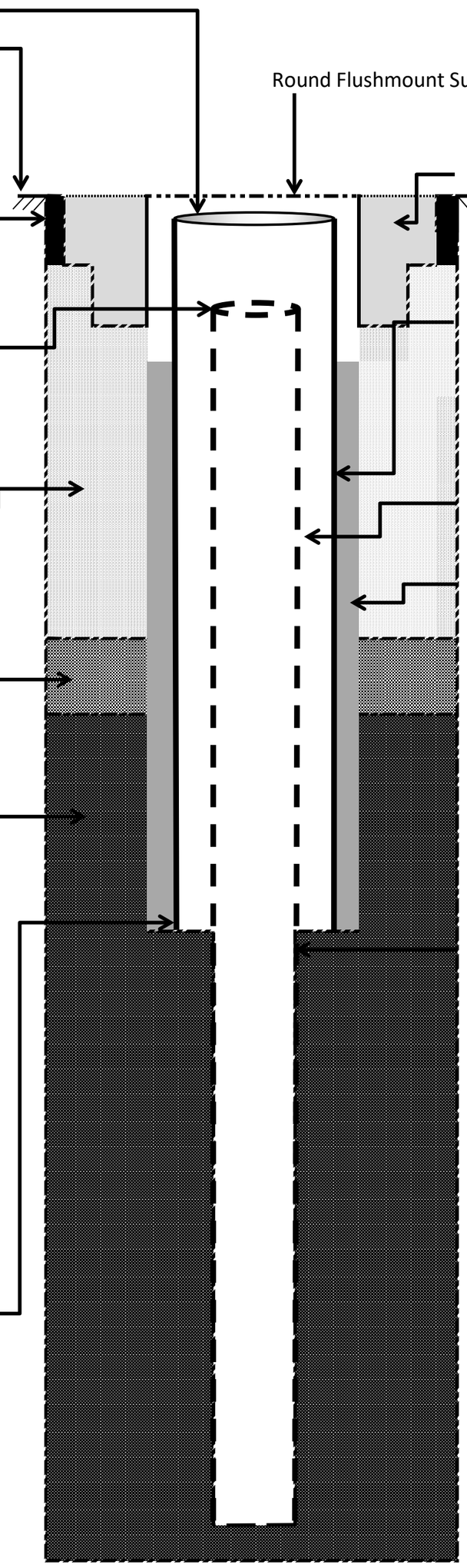
Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

Project: CDE OU3 Groundwater RD
Drilling Contractor: Advanced Drilling, Inc
Drilling Method: Mud Rotary
Drill Equipment: Failing SS25

Monitoring Well (MW)
Type: FLUSHMOUNT

Borehole Data		Well Data			
Diameter (0 to 73 ft) (in):	10	**Total Depth (ft):**	410	**Date Started:**	2/16/2016
Diameter (73 to 500 ft) (in):	6	**Well Type:**	FLUTe™ Multi-Port	**Date Finished:**	3/1/2016
Total Depth (ft)	501	**Blank Liner Installed (y/n):**	Yes	**Driller:**	J. Meixsell, A. Alberalla
Sampler:	N/A	**Date Blank Liner Installed:**	3/3/2016	**Inspector:**	P. Lamont
Depth to Weathered Rock (ft):	43.5	**Permit No:**	E201601299	**Northing:**	639446.37
Depth to Competent Rock (ft):	63	**Development Method:**	Pump	**Easting:**	519059.07
				Ground Elevation:	69.18
				Top of Casing Elevation:	69.20

Characteristic	Depth (ft bgs)	Elevation (ft msl)	Description
Top of Outer Casing:	-	69.20	
Grade Level:	0.02	69.18	
Asphalt	0.02 to 1.00	69.18 to 68.20	Description: Black
Top of PVC Riser:	0.77	68.43	
Overburden	1.00 to 43.50	68.20 to 25.70	Description: Red-brown silty sands and sand-silt mixtures over till
Weathered Bedrock	43.50 to 63.00	25.70 to 6.20	Description: Red-brown shale and siltstone.
Competent Bedrock	63.00 to 501.00	6.20 to -431.80	Description: Passaic formation; reddish-brown, mudstone/siltstone
Bottom of Casing:	73.00	-3.80	
Bottom of Boring:	501.00	-431.80	



Round Flushmount Surface Completion:

Diameter *(in)* :	12
Surface Seal Type:	Concrete
Borehole Diameter *(in)* :	10
Casing Type:	Steel
Inside dia. *(in)* :	6.07
Outside dia. *(in)* :	6.63
Grout:	Cement-bentonite
Borehole Diameter *(in)* :	6.67
Inside dia. *(in)* :	6.07
Outside dia. *(in)* :	6.63

Drawing not to scale

Bedrock Multilevel Monitoring Well - As Constructed

MW-26

Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

Louis Berger

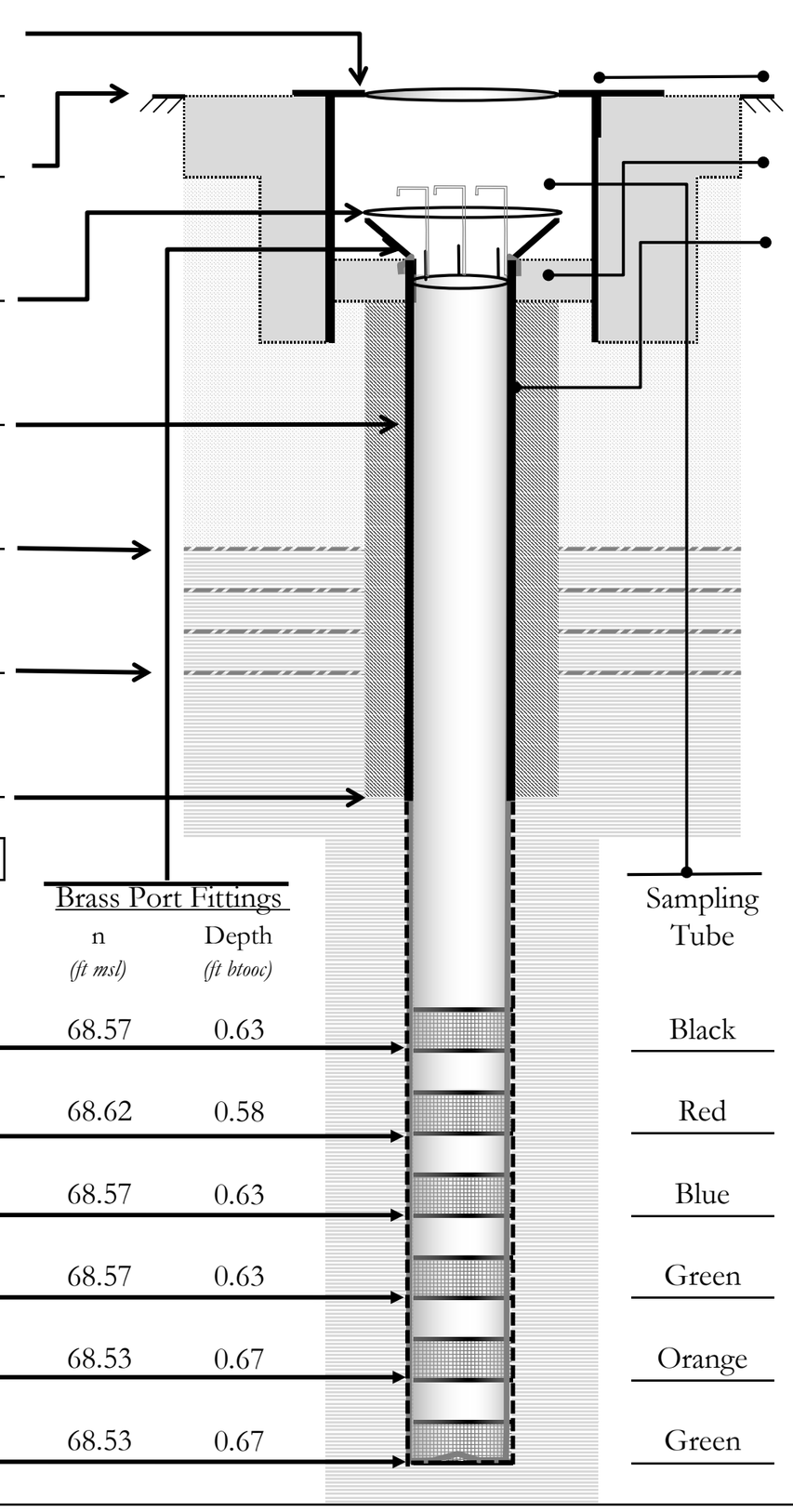
Drilling:		3/14/2016 -	3/31/2016	**Drilling Reference Point:**
Borehole dia. (in):	6	Northing:	639446.37	**TOP OF GROUND SURFACE**
Drilling Method:	Tricone Rotary	Easting:	519059.07	
Drill Depth (ft):	501.00			
Development/Temporary Liner Installation:		3/2/2016 -	3/3/2016	**Water-Level Reference Point:**
Development Method:	Stepped Volume Purge 3X Well Volume			**TOP OF OUTER CASING**

Well Completion:

Manufacturer:	Flexible Liner Underground Technologies, LLC (FLUTe™)	Installation Date:	
Model:	Water FLUTe™ MLS	Water Table Depth (ft):	10
Length (ft):	496	Hole Depth (ft):	496.00
Ports (#):	6	Installation Depth (ft):	489.00
Ports are oriented in increasing order clockwise from the tag-line tube		Mud Slug (ft):	no

Survey Details:

	Depth *(ft btooc)*	Elevation *(ft msl)*
Top of Outer Casing (ToOC)	-	69.20
Grade Level	0.02	69.18
Top of PVC Riser	0.77	68.43
Target Liner Water Level	0.77	68.43
Base of Overburden	43.50	25.70
Base of Weathered Bedrock	63.00	6.20
Bottom of Casing	73.00	-3.80



Casing and Completion Details:

Round Flushmount Surface Completion	
Diameter *(in)*:	12
Surface Seal Type:	Concrete
Casing Construction:	
Borehole Diameter *(in)*:	10
Casing Type:	Steel
Inside dia. *(in)*:	6.07
Outside dia. *(in)*:	6.63
Grout:	Cement-bentonite

Purging and Sampling Parameters:

Simultaneous Purge Ports?:	yes
Buoyancy Ratio:	0.8174
Purge Pressure *(psi)*:	58
Sampling Pressure *(psi)*:	41

Monitoring Intervals: / **Sampling Port Information:**

Port #	Top Depth *(ft btooc)*	Bottom Depth *(ft btooc)*	Top Elevation *(ft msl)*	Bottom Elevation *(ft msl)*	Brass Port Fittings Elevation *(ft msl)*	Brass Port Fittings Depth *(ft btooc)*	Sampling Tube	Pump Depth *(ft btooc)*	Purge Volume *(L)*	Minimum Discard *(L)*
1	95.00	105.00	-25.80	-35.80	68.57	0.63	Black	105.00	4.23	0.23
2	175.00	185.00	-105.80	-115.80	68.62	0.58	Red	106.00	4.30	0.25
3	255.00	265.00	-185.80	-195.80	68.57	0.63	Blue	107.00	4.34	0.25
4	305.00	320.00	-235.80	-250.80	68.57	0.63	Green	108.00	4.39	0.25
5	385.00	395.00	-315.80	-325.80	68.53	0.67	Orange	109.00	4.43	0.26
6	455.00	465.00	-385.80	-395.80	68.53	0.67	Green	110.00	4.47	0.26

Manufacturer's Reccomendations

Liner water level should be checked to ensure it is maintained at ten (10) feet above the highest previously tagged port water level before beginning the sampling proc
Four total purge strokes are recommended to remove water that may have been in long contact with the liner or spacer before sampling and taking head measuremen
If head measurements are made between sampling events, each port should be first be purged one stroke to allow the tubing to refill to the current head value.

Groundwater Monitoring Well Drilling Log

MW-27

Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

Project: CDE OU3 Groundwater RD
Drilling Contractor: Advanced Drilling, Inc
Drilling Method: Mud Rotary
Drill Equipment: Failing SS25, PDC drill bit(0 to 285'); Failing SS25, tricone roller bit (285 to 500')

Monitoring Well (MW)
Type: FLUSHMOUNT

Borehole Data		Well Data			
Diameter (0 to 77 ft) (in):	10	**Total Depth (ft):**	460	**Date Started:**	3/14/2016
Diameter (77 to 500 ft) (in):	6	**Well Type:**	FLUTe™ Multi-Port	**Date Finished:**	3/31/2016
Total Depth (ft)	500	**Blank Liner Installed (y/n):**	Yes	**Driller:**	J. Meixsell, A. Alberalla
Sampler:	N/A	**Date Blank Liner Installed:**	4/1/2016	**Inspector:**	P. Lamont / D. Cuomo
Depth to Weathered Rock (ft):	55	**Permit No:**	E201601674	**Northing:**	638775.91
Depth to Competent Rock (ft):	67	**Development Method:**	Pump	**Easting:**	518893.25
				Ground Elevation:	69.03
				Top of Casing Elevation:	69.04

Characteristic	Depth (ft bgs)	Elevation (ft msl)	Description

Top of Outer Casing: - 69.04
Grade Level: 0.01 69.03

Asphalt 0.01 to 1.00; 69.03 to 68.04
Description: Black

Top of PVC Riser: 0.81 68.23

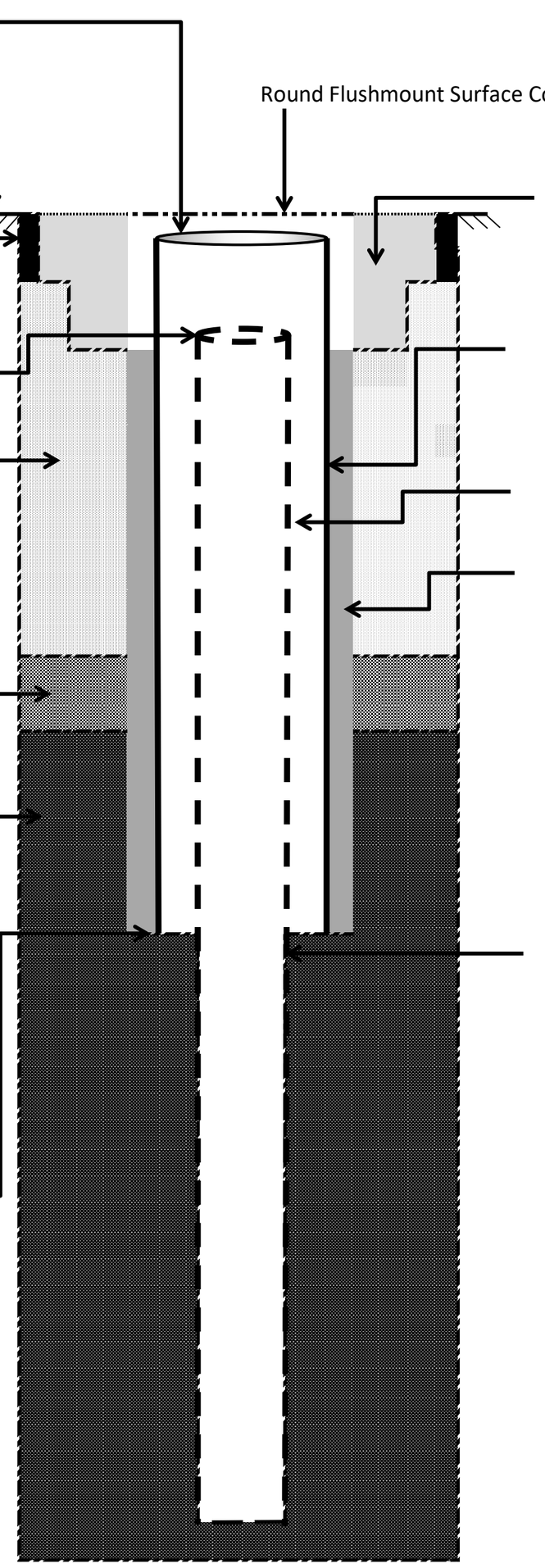
Overburden 1.00 to 55.00; 68.04 to 14.04
Description: Red-brown silty sands and sand-silt mixtures (1-27') over till (27-55')

Weathered Bedrock 55.00 to 67.00; 14.04 to 2.04
Description: Red-brown shale and siltstone.

Competent Bedrock 67.00 to 500.00; 2.04 to -430.96
Description: Passaic formation; reddish-brown, mudstone/siltstone

Bottom of Casing: 77.00 -7.96

Bottom of Boring 500.00 -430.96



Round Flushmount Surface Completion:

Diameter *(in)* : 12
Surface Seal Type: Concrete

Borehole Diameter *(in)* : 10
Casing Type: Steel

Inside dia. *(in)* : 6.07
Outside dia. *(in)* : 6.63

Grout: Cement-bentonite

Borehole Diameter *(in)* : 6.67
Inside dia. *(in)* : 6.07
Outside dia. *(in)* : 6.63

Drawing not to scale

Bedrock Multilevel Monitoring Well - As Constructed

MW-27

Project: Cornell - Dubilier Electronics Superfund Site
Louis Berger Job Number: 2001764.019.02.3002
Client: USACE/USEPA

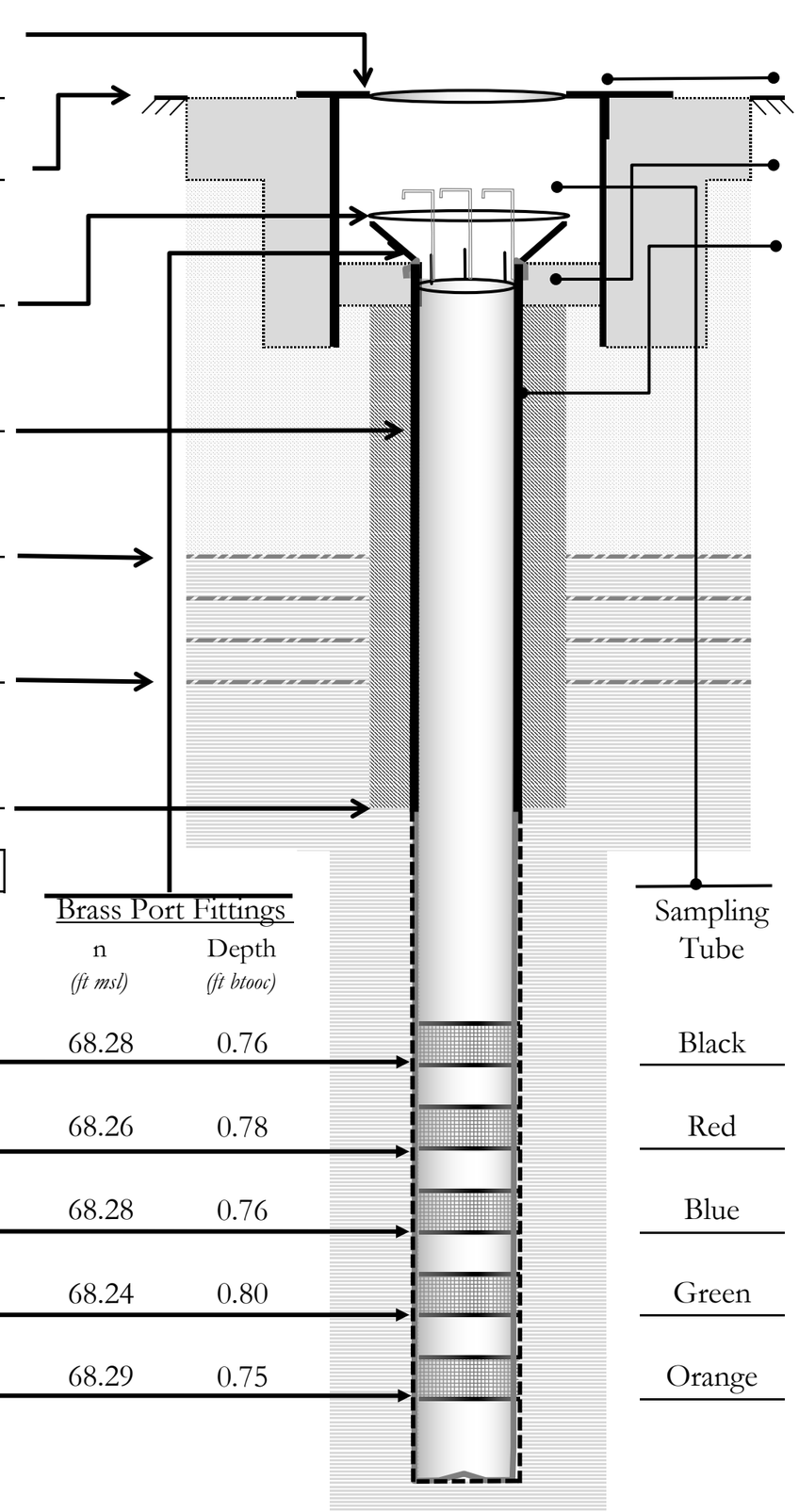
Drilling:		3/14/2016 -	3/31/2016	**Drilling Reference Point:**
Borehole dia. (in):	6	Northing:	638775.91	**TOP OF GROUND SURFACE**
Drilling Method:	Tricone Rotary	Easting:	518893.25	
Drill Depth (ft):	501.00			
Development/Temporary Liner Installation:		3/31/2016 -	4/1/2016	**Water-Level Reference Point:**
Development Method:	Stepped Volume Purge 3X Well Volume			**TOP OF OUTER CASING**

Well Completion:

Manufacturer:	Flexible Liner Underground Technologies, LLC (FLUTe™)	Installation Date:	
Model:	Water FLUTe™ MLS	Water Table Depth (ft):	10
Length (ft):	481	Hole Depth (ft):	480.00
Ports (#):	5	Installation Depth (ft):	477.75
Ports are oriented in increasing order clockwise from the tag-line tube		Mud Slug (ft):	no

Survey Details:

	Depth *(ft btooc)*	Elevation *(ft msl)*
Top of Outer Casing (ToOC)	-	69.04
Grade Level	0.01	69.03
Top of PVC Riser	0.81	68.23
Target Liner Water Level	0.81	68.23
Base of Overburden	55.00	14.04
Base of Weathered Bedrock	67.00	2.04
Bottom of Casing	77.00	-7.96



Casing and Completion Details:

Round Flushmount Surface Completion	
Diameter *(in)*:	12
Surface Seal Type:	Concrete
Casing Construction:	
Borehole Diameter *(in)*:	10
Casing Type:	Steel
Inside dia. *(in)*:	6.07
Outside dia. *(in)*:	6.63
Grout:	Cement-bentonite

Purging and Sampling Parameters:

Simultaneous Purge Ports?:	yes
Buoyancy Ratio:	0.7277
Purge Pressure *(psi)*:	58
Sampling Pressure *(psi)*:	41

Monitoring Intervals: / **Sampling Port Information:**

Port #	Top Depth *(ft btooc)*	Bottom Depth *(ft btooc)*	Top Elevation *(ft msl)*	Bottom Elevation *(ft msl)*	Brass Port Fittings Elevation *(ft msl)*	Brass Port Fittings Depth *(ft btooc)*	Sampling Tube	Pump Depth *(ft btooc)*	Purge Volume *(L)*	Minimum Discard *(L)*
1	85.00	95.00	-15.96	-25.96	68.28	0.76	Black	106	4.31	0.24
2	180.00	190.00	-110.96	-120.96	68.26	0.78	Red	107	4.38	0.25
3	225.00	235.00	-155.96	-165.96	68.28	0.76	Blue	108	4.42	0.25
4	370.00	380.00	-300.96	-310.96	68.24	0.80	Green	109	4.46	0.25
5	460.00	470.00	-390.96	-400.96	68.29	0.75	Orange	110	4.51	0.26

Manufacturer's Reccomendations

Liner water level should be checked to ensure it is maintained at ten (10) feet above the highest previously tagged port water level before beginning the sampling proc
Four total purge strokes are recommended to remove water that may have been in long contact with the liner or spacer before sampling and taking head measuremen
If head measurements are made between sampling events, each port should be first be purged one stroke to allow the tubing to refill to the current head value.

Appendix F – Low-Flow Sampling Methodology

Procedure for Low Flow Groundwater Sample Collection

I. Introduction

This standard operating procedure (SOP) describes methods used to sample groundwater with low flow, minimal drawdown techniques. If a dense or light non-aqueous phase liquid (DNAPL or LNAPL), or free product is encountered, the thickness of the layer will be recorded in the field notebook.

II. Equipment and Supplies

The following equipment will be used to perform low flow, minimal drawdown, groundwater sampling.

1. Depth-to-water measuring device - An electronic water-level indicator or steel tape and chalk, with marked intervals of 0.01 foot. Interface probe for determination of NAPL presence, if needed.
2. Steel tape and weight - Used for measuring total depth of well. Lead weight should not be used.
3. Sampling pump - Submersible or bladder pumps with adjustable rate controls are preferred. Pumps are to be constructed of inert materials, such as stainless steel and Teflon®. Pump types that are acceptable include gear and helical driven, centrifugal (low-flow type), and air-activated piston. An adjustable rate, peristaltic pump can be used when the depth to water is 20 feet or less.
4. Tubing - Teflon® or Teflon®-lined polyethylene tubing is preferred when sampling for organic compounds. Polyethylene tubing can be used when sampling inorganics.
5. Power source - If a combustion type (gasoline or diesel-driven) generator is used, it must be placed downwind of the sampling area.
6. Flow measurement supplies - flow meter, graduated cylinder, and a stop watch.
7. Multi-parameter meter with flow-through cell - This can be one instrument or more contained in a flow-through cell. The water quality indicator parameters which need to be monitored include:
    a. pH
    b. ORP
    c. Dissolved oxygen (DO),

d. Specific conductance,

e. Temperature, and

f. Flow rate (only collect at shallow bedrock monitoring wells).

Calibration fluids for all instruments should be NIST-traceable and there should be enough for daily calibration throughout the sampling event. The inlet of the flow cell must be located near the bottom of the flow cell and the outlet near the top. The size of the flow cell should be kept to a minimum, and a closed cell is preferred. The flow cell must not contain any air or gas bubbles when monitoring for the water quality indicator parameters.

8. Decontamination supplies – Including a reliable and documented source of distilled water and any solvents (if used). Pressure sprayers, buckets or decontamination tubes for pumps, brushes and non-phosphate soap will also be needed.
9. Sample bottles, sample preservation supplies, sample tags or labels, and chain-of-custody forms.
10. Well construction, field, and water quality data from the previous sampling event.
11. Well keys and map of well locations.
12. Field notebook, groundwater sampling logs, and calculator. A suggested field data sheet (groundwater sampling record or groundwater sampling log) are provided at the end of this attachment.
13. Polyethylene sheeting for placement on the ground around the well head.
14. Personal protective equipment as specified in the Site Health and Safety Plan.
15. Air monitoring equipment as specified in the Site Health and Safety Plan.
16. Tool box – Should include all of the tools needed to operate the equipment used.
17. Containers with re-sealable lids (*e.g.*, five-gallon pail and lid or drum).

III. Guidelines

Investigation-Derived Waste (IDW) generated during groundwater sampling will be placed in re-sealable containers and managed. Generally, the following considerations should be taken into account during groundwater sampling activities:

- All equipment entering the well or included in the sampling chain should be cleaned using appropriate decontamination procedures and should be staged on 0.5-mil polyethylene plastic.
- A new, clean pair of disposable nitrile gloves should be worn during sampling activities and changed between sampling locations.

- If a submersible bladder pump is used, the bladder will be replaced between sampling locations.
- All sample containers will be placed in separate plastic bags immediately after collection and decontamination of the outside of the container.
- All used field equipment to be decontaminated will be placed in plastic bags. All field waste (*i.e.*, PPE, plastic sheeting, towels, etc.) will be placed in a plastic bag for subsequent disposal.
- If possible, one member of the field team will be solely responsible for entering all field activity information into the field logbook (if applicable), while another member(s) will be solely responsible for collecting samples.
- Field personnel will use equipment constructed of Teflon®, stainless steel, or carbon steel that has been properly decontaminated.
- Plastic sheeting should be placed around the well to prevent sampling equipment from coming into contact with the ground.
- All down-hole equipment must be constructed of Teflon®, stainless steel, or polypropylene.
- Retrieval lines for pumps should be polypropylene monofilament, stainless steel, or Teflon coated wire. At a minimum, leaders constructed of these materials are acceptable.
- Pumps should not be allowed to drop freely into the well.
- Outer gloves should be changed before sampling or handling clean equipment.
- Tighten the cap on all sample containers after sampling.

IV. Procedure

Pre-Sampling Activities

1. Check and record the condition of the monitoring well for damage or evidence of tampering. Lay out polyethylene sheeting around the well to minimize the likelihood of contamination of sampling/purging equipment from the soil. Place monitoring, purging and sampling equipment on the sheeting.
2. Unlock well head. Record location, time, date, and appropriate information in a field logbook or on the ground-water sampling log (See attached groundwater sampling record and groundwater sampling log as examples).
3. Remove inner casing cap.
4. Monitor the headspace of the monitoring well at the rim of the casing for volatile organic compounds (VOCs) with a photoionization detector (PID) or a Flame Ionization Detector

(FID) and record in the logbook. If VOCs are present, allow the gases to dissipate prior to collection of groundwater samples.

5. Measure the depth to water to nearest 0.01 feet relative to the top of the inner well casing (if applicable) with an electronic water level indicator or steel tape. Record the depth in logbook or groundwater sampling log. Measure the depth to water a second time to confirm initial measurement; measurement should agree within 0.01 feet or re-measure.
6. Check the available well information or field information for the total depth of the monitoring well. Use the information from the depth of water in step six and the total depth of the monitoring well to calculate the volume of the water in the monitoring well (*i.e.*, volume of one casing). Record information in field logbook or groundwater sampling log.

Purging and Sampling Activities

1. Place the pump and support equipment at the wellhead and slowly lower the pump and tubing down into the monitoring well until the location of the pump intake is set at a pre-determined location within the screen interval. The placement of the pump intake should be positioned with a calibrated sampling pump hose, sounded with a weighted tape, or using a pre-measured hose. Refer to the available monitoring well information to determine the depth and length of the screen interval. Measure the depth of the pump intake while lowering the pump into location. Record pump location in field logbook or groundwater sampling log.
2. Measure the water level (water level must be measured to nearest 0.01 feet) and record information on the ground-water sampling log, leave water level indicator probe in the monitoring well.
3. Connect the discharge line from the pump to a flow-through cell. The discharge line from the flow-through cell should be directed to an appropriately-sized container to contain the purge water during the purging and sampling of the monitoring well.
4. Start pumping the well at a low flow rate (*e.g.*, 0.2 to 0.5 liter per minute) and slowly increase the speed. Check water level. Maintain a steady flow rate while maintaining a drawdown of less than 0.33 feet. If drawdown is greater than 0.33 feet, lower the flow rate. 0.33 feet is a goal to help guide with the flow rate adjustment. It should be noted that this goal may be difficult to achieve under some circumstances due to geologic heterogeneities within the screened interval, and may require adjustment based on site-specific conditions and personal experience.
5. Measure the discharge rate of the pump with every three to five minutes using the following two methods:
    a. A graduated cylinder and a stop watch; and
    b. Measure the water level and record both flow rate and water level on the groundwater sampling log.

Continue purging, monitor and record water level and pump rate every three to five minutes during purging. Pumping rates should be kept at minimal flow to ensure minimal drawdown in the monitoring well.

6. During the purging, a minimum of one well volume (including the volume of water in the tubing, pump, and flow cell) must be purged prior to recording the water quality indicator parameters. Once this volume has been purged, record the water quality indicator parameters every three to five minutes. The water quality indicator field parameters are dissolved oxygen, specific electrical conductance, pH, redox potential, and temperature. Flow rate is also measured at shallow bedrock monitoring wells. Oxidation-reduction potential may not always be an appropriate stabilization parameter, and will depend on site-specific conditions. However, readings should be recorded because of its value as a double check for oxidizing conditions. The stabilization criterion is based on three successive readings of the water quality field parameters; the following are the criteria which must be used:

Parameter	**Stabilization Criteria**
pH	+/- 0.2 pH units
Specific Electrical Conductance (SEC)	+/- 3% S/cm
Oxidation-Reduction Potential (ORP)	+/- 10 millivolts
Dissolved Oxygen	+/- 10% milligrams per liter
Temperature	+/- 2 degrees

7. Once the criteria have been successfully met, indicating that the water quality indicator parameters have stabilized, then sample collection can take place.
8. If a stabilized drawdown in the well can't be maintained at 0.33 feet, reduce the flow rate or turn the pump off for 15 minutes and allow for recovery. It should be noted whether or not the pump has a check valve. A check valve is required if the pump is shut off. Under no circumstances should the well be pumped dry.
9. After 15 minutes, begin pumping again at a lower flow rate. If the water draws down more than 0.33 feet again, turn pump off and allow for recovery. If two tubing volumes (including the volume of water in the pump and flow cell) have been removed during purging, then sampling can proceed next time the pump is turned on. This information should be noted in the field notebook or groundwater sampling log with a recommendation for a different purging and sampling procedure.
10. Maintain the same pumping rate or reduce slightly for sampling (0.2 to 0.5 liter per minute) in order to minimize disturbance of the water column. Samples should be collected directly from the discharge port of the pump tubing prior to passing through the flow-through cell.

Disconnect the pump's tubing from the flow-through cell so that the samples are collected from the pump's discharge tubing. For samples collected for dissolved gases or VOC analyses, the pump tubing needs to be completely full of ground water to prevent the ground water from being aerated as it flows through the tubing.

VOC samples should be collected first. When filling the VOC vials, a meniscus must be formed over the mouth of the vial to eliminate the formation of air bubbles and head space prior to capping. After filling the VOC vials, all other parameter bottles should be filled in a "round robin" fashion. Fill each bottle approximately ¼ full before moving on to the next bottle. Repeat this until all sample bottles are full. The QC bottles should be filled at the same time as the field sample bottles at the same fashion. All sample containers should be filled with minimal turbulence by allowing the ground water to flow from the tubing gently down the inside of the container.

11. Remove the pump from the monitoring well. Decontaminate the pump and dispose of the tubing if it is non-dedicated.
12. Before locking the monitoring well, measure and record the well depth (to 0.1 feet). Measure the total depth a second time to confirm initial measurement; measurement should agree within 0.01 feet or re-measure.
13. Close and lock the well.

V. References

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ATTACHMENT A

Appendix G –Purge Logs – Rounds 1 and 2

Round 1: December 2016 and January 2017

LOW FLOW SAMPLING
DATA SHEET

SHEET ___ OF___

SITE: Cornell-Dubilier OU3
DATE: 12/20/2016
WEATHER:

CONSULTING FIRM: Louis Berger
FIELD PERSONNEL: P. Trudell

MONITOR WELL #: MW01A
WELL PERMIT #: 2500056561
WELL DEPTH: 48.43
WELL DIAMETER: 2
SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 20.2
PUMP INTAKE DEPTH: 37 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 10.02 ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
15:41	7.85	NA	0.590	NA	7	NA	61.80	NA	48.1	NA	13.5	NA	220	10.42
15:46	7.81	0.04	0.592	-0.002	-92	99	49.00	12.8	23.1	25	14.7	-1.25	220	10.32
15:51	7.83	-0.02	0.597	-0.005	-119	27	45.20	3.8	16.1	7	15.1	-0.39	220	10.30
15:56	7.84	-0.01	0.599	-0.002	-129	10	38.40	6.8	18.0	-1.9	15.3	-0.17	220	10.21
16:01	7.86	-0.02	0.601	-0.002	-134	5	3.27	35.13	18.3	-0.3	14.3	1	220	10.31
16:06	7.88	-0.02	0.601	0.000	-138	4	2.69	0.58	21.0	-2.7	15.0	-0.76	220	10.31
16:11	7.88	0	0.602	-0.001	-139	1	2.37	0.32	16.9	4.1	14.9	0.1	220	10.31
16:16	7.87	0.01	0.602	0.000	-139	0	2.10	0.27	18.3	-1.4	14.9	-0.02	220	10.31
16:21	7.87	0	0.602	0.000	-140	1	2.03	0.07	18.9	-0.6	15.0	-0.04	220	10.31

COMMENTS: **Sample @ 16:30**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors, Congeners), TAL Metals, Pesticides, Dioxins and Furans**

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/21/2016 FIELD PERSONNEL: P. Trudell
WEATHER:

MONITOR WELL #: MW02A WELL DEPTH: 48.9
WELL PERMIT #: 2500056562 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 37 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 0.3 DEPTH TO WATER BEFORE PUMP INSTALLATION: 10.64 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
7:50	8.12	NA	0.636	NA	-199	NA	0.00	NA	29.5	NA	16.4	NA	225	11.39
7:55	8.16	-0.04	0.636	0	-213	14	0.00	0	33	-3.5	16.4	0	250	12.59
8:00	8.15	0.01	0.637	-0.001	-220	7	0.00	0	40.7	-7.7	16.2	0.16	250	13.24
8:05	8.15	0.00	0.639	-0.002	-225	5	0.00	0	47.1	-6.4	16.2	0.05	225	13.64
8:10	8.15	0.00	0.641	-0.002	-229	4	0.00	0	41.7	5.4	16.1	0.11	225	13.92
8:15	8.15	0.00	0.642	-0.001	-232	3	0.00	0	55.5	-13.8	16.0	0.05	230	14.21
8:20	8.15	0.00	0.639	0.003	-227	-5	58.90	-58.9	34.1	21.4	16.0	0.03	195	14.15
8:25	8.14	0.01	0.639	0.000	-231	4	52.10	6.8	26.2	7.9	15.9	0.11	190	14.19
8:30	8.15	-0.01	0.640	-0.001	-234	3	46.20	5.9	26.1	0.1	15.7	0.2	190	14.27
8:35	8.15	0.00	0.639	0.001	-235	1	39.70	6.5	21	5.1	15.6	0.06	190	14.24
8:40	8.14	0.01	0.638	0.001	-235	0	34.20	5.5	16	5	15.6	0.03	190	14.20
8:45	8.14	0.00	0.637	0.001	-235	0	28.10	6.1	14.4	1.6	15.6	-0.04	190	14.20
8:50	8.13	0.01	0.635	0.002	-234	-1	23.10	5	10.9	3.5	15.6	-0.01	190	14.21
8:55	8.14	-0.01	0.633	0.002	-234	0	20.50	2.6	10.8	0.1	15.6	-0.01	190	14.19
9:00	8.12	0.02	0.631	0.002	-233	-1	16.70	3.8	9.7	1.1	15.7	-0.03	190	14.13
9:05	8.11	0.01	0.630	0.001	-233	0	1.20	15.5	9.1	0.6	15.7	0	190	14.06
9:10	8.10	0.01	0.626	0.004	-232	-1	0.98	0.22	8.9	0.2	15.7	-0.01	190	13.99
9:15	8.10	0.00	0.624	0.002	-231	-1	0.77	0.21	6.4	2.5	15.8	-0.09	190	13.95
9:20	8.10	0.00	0.622	0.002	-231	0	0.53	0.24	6.7	-0.3	15.9	-0.11	190	13.90

COMMENTS: **Sample @**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/22/2016 FIELD PERSONNEL: J. Ganz
WEATHER:

MONITOR WELL #: MW03 WELL DEPTH: 30.13
WELL PERMIT #: 2500056563 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 NBJSPEPN6
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 25 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 13.8 DEPTH TO WATER BEFORE PUMP INSTALLATION: 10.43 ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
8:50	7.48	NA	0.810	NA	199	NA	0.00	NA	56.8	NA	10.7	NA	50	11.07
9:00	7.50	-0.02	0.791	0.019	142	57	0.00	0	42.3	14.5	11.3	-0.52	50	11.11
9:10	7.64	-0.14	0.778	0.013	114	28	0.00	0	33.1	9.2	11.7	-0.42	50	11.16
9:20	7.85	-0.21	0.745	0.033	96	18	0.00	0	24.2	8.9	11.8	-0.14	50	11.18
9:30	8.30	-0.45	0.685	0.060	91	5	0.00	0	20.6	3.6	12.0	-0.18	50	11.19
9:40	8.88	-0.58	0.626	0.059	90	1	0.00	0	15.2	5.4	12.2	-0.24	50	11.19
9:50	9.23	-0.35	0.602	0.024	83	7	0.00	0	14.5	0.7	12.3	-0.01	50	11.19
10:00	9.43	-0.2	0.600	0.002	76	7	0.00	0	12.5	2	12.3	-0.07	50	11.19
10:10	9.51	-0.08	0.601	-0.001	72	4	0.00	0	11.4	1.1	12.3	0.02	50	11.19
10:20	9.56	-0.05	0.604	-0.003	69	3	0.00	0	10.2	1.2	12.3	0.01	50	11.19
10:30	9.61	-0.05	0.608	-0.004	67	2	0.00	0	10.7	-0.5	12.3	0.01	50	11.19
10:40	9.60	0.01	0.617	-0.009	66	1	0.00	0	9.9	0.8	12.3	-0.05	50	11.19
10:50	9.56	0.04	0.620	-0.003	66	0	0.00	0	9.2	0.7	12.4	-0.11	50	11.19

COMMENTS: **Sample @ ; MicroQED bladder pump used**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: P. Trudell
WEATHER:

MONITOR WELL #: MW04 WELL DEPTH: 28.88
WELL PERMIT #: 2500056564 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 39 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 5.6 DEPTH TO WATER BEFORE PUMP INSTALLATION: 10.71 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
10:40	6.79	NA	0.583	NA	193	NA	0.00	NA	54.6	NA	9.9	NA	70	11.82
10:50	7.00	-0.21	0.577	0.006	178	15	0.00	0	42.2	12.4	11.3	-1.39	70	11.82
11:00	7.20	-0.2	0.574	0.003	163	15	0.00	0	35.2	7	11.7	-0.34	70	11.82
11:10	7.10	0.1	0.572	0.002	160	3	0.00	0	29.4	5.8	11.8	-0.12	70	11.82
11:20	7.04	0.06	0.574	-0.002	158	2	0.00	0	26.0	3.4	12.0	-0.22	70	11.82
11:30	7.01	0.03	0.572	0.002	154	4	0.00	0	23.4	2.6	12.2	-0.24	70	11.82
11:40	7.00	0.01	0.571	0.001	150	4	0.00	0	21.0	2.4	12.5	-0.22	70	11.82
11:50	7.00	0	0.569	0.002	146	4	0.00	0	18.1	2.9	12.3	0.11	70	11.82
12:00	6.99	0.01	0.569	0	143	3	0.00	0	16.5	1.6	12.7	-0.31	70	11.82
12:10	6.99	0	0.569	0	140	3	0.00	0	15.9	0.6	12.7	-0.02	70	11.82

COMMENTS: **Sample @ 12:20; MicroQED bladder pump used**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: J. Ganz
WEATHER:

MONITOR WELL #: MW05 WELL DEPTH: 48.43
WELL PERMIT #: 2500056565 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 NBJSPEPN6
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 35 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 1.2 DEPTH TO WATER BEFORE PUMP INSTALLATION: 10.71 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
9:55	8.52	NA	0.661	NA	162	NA	1.41	NA	58.5	NA	15.2	NA	250	10.81
10:00	8.09	0.43	0.673	-0.012	22	140	0.00	1.41	49.8	8.7	15.6	-0.37	250	10.81
10:05	7.95	0.14	0.674	-0.001	0	22	0.00	0	36.4	13.4	15.6	-0.05	250	10.81
10:10	7.88	0.07	0.681	-0.007	-2	2	0.00	0	18.4	18	15.6	0.02	250	10.81
10:15	7.83	0.05	0.689	-0.008	-1	-1	0.00	0	13.6	4.8	15.6	0.02	250	10.81
10:20	7.78	0.05	0.696	-0.007	0	-1	0.00	0	9.9	3.7	15.6	-0.04	250	10.81
10:25	7.77	0.01	0.686	0.01	-3	3	0.00	0	10.9	-1	15.6	0.04	250	10.81
10:30	7.76	0.01	0.684	0.002	1	-4	0.00	0	8.6	2.3	15.6	-0.03	250	10.81
10:35	7.75	0.01	0.682	0.002	0	1	0.00	0	9.5	-0.9	15.4	0.18	250	10.81

COMMENTS: **Sample @**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: N/A FIELD PERSONNEL: J. Ganz
WEATHER:

MONITOR WELL #: MW06 WELL DEPTH: 41.6
WELL PERMIT #: 2500056566 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 NBJSPEPN6
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 37 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 1.7 DEPTH TO WATER BEFORE PUMP INSTALLATION: 14.16 ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
		NA		NA		NA		NA		NA		NA		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Not sampled. Unable to install pump past riser damage**
ANALYSIS:
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: J. Ganz
WEATHER:

MONITOR WELL #: MW07 WELL DEPTH: 57.8
WELL PERMIT #: 2500056567 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 NBJSPEPN6
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 51 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 45.9 DEPTH TO WATER BEFORE PUMP INSTALLATION: 20.07 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
13:25	7.92	NA	1.44	NA	-126	NA	0.52	NA	1000	NA	16.0	NA	240	20.37
13:30	7.91	0.01	1.45	-0.01	-143	17	0.13	0.39	571	429	16.3	-0.3	240	20.37
13:35	7.90	0.01	1.33	0.12	-149	6	0.00	0.13	206	365	16.6	-0.32	240	20.37
13:40	7.80	0.1	1.34	-0.01	-139	-10	0.00	0	147	59	16.7	-0.07	240	20.37
13:45	7.72	0.08	1.42	-0.08	-124	-15	0.18	-0.18	102	45	16.5	0.18	240	20.37
13:50	7.59	0.13	1.45	-0.03	-120	-4	0.20	-0.02	68.2	33.8	16.5	0.05	240	20.37
13:55	7.47	0.12	1.50	-0.05	-115	-5	0.15	0.05	39.5	28.7	16.4	0.08	240	20.37
14:00	7.42	0.05	1.51	-0.01	-112	-3	0.07	0.08	37.7	1.8	16.4	-0.01	240	20.37
14:05	7.41	0.01	1.52	-0.01	-111	-1	0.06	0.01	35.6	2.1	16.4	-0.03	240	20.37

COMMENTS: **Sample @ 14:10**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/22/2016 FIELD PERSONNEL: P. Trudell
WEATHER:

MONITOR WELL #: MW08 WELL DEPTH: 59.82
WELL PERMIT #: 2500056568 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 50 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 0.4 DEPTH TO WATER BEFORE PUMP INSTALLATION: 16.43 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
8:00	7.25	NA	1.07	NA	221	NA	0.00	NA	63.9	NA	15.1	NA	145	16.35
8:05	7.23	0.02	1.07	0	212	9	0.00	0	37.3	26.6	15.0	0.12	175	16.35
8:10	7.24	-0.01	1.02	0.05	191	21	0.00	0	11.7	25.6	15.2	-0.23	275	16.4
8:15	7.23	0.01	0.984	0.036	180	11	0.00	0	10.1	1.6	15.5	-0.26	320	16.52
8:20	7.22	0.01	0.967	0.017	173	7	0.00	0	5.4	4.7	15.4	0.05	320	16.52
8:25	7.22	0	0.962	0.005	165	8	0.00	0	4.7	0.7	15.3	0.09	320	16.35
8:30	7.20	0.02	0.96	0.003	153	12	0.00	0	2.6	2.1	15.3	0.05	320	16.35
8:35	7.20	0	0.96	0.004	145	8	0.00	0	1.6	1	15.3	0	320	16.4
8:40	7.20	0	0.95	0.004	139	6	0.00	0	2	-0.4	15.3	0.03	320	16.33
8:45	7.20	0	0.95	0.003	130	9	0.00	0	0.5	1.5	15.3	-0.05	320	16.42
8:50	7.20	0	0.95	0.003	126	4	0.00	0	0.3	0.2	15.4	-0.07	320	16.42
8:55	7.20	0	0.94	0.005	119	7	0.00	0	0.3	0	15.4	0.02	320	16.42

COMMENTS: **Sample @ 09:05**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: P. Trudell
WEATHER:

MONITOR WELL #: MW09 WELL DEPTH: 55.92
WELL PERMIT #: 2500056569 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 42 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 14.94 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
13:10	7.14	NA	2.10	NA	166	NA	3.67	NA	12.8	NA	12.8	NA	190	16.27
13:15	7.04	0.1	2.12	-0.02	178	-12	0.69	2.98	11.1	1.7	13.7	-0.95	200	16.21
13:20	7.01	0.03	2.13	-0.01	179	-1	0.15	0.54	7.9	3.2	13.8	-0.09	200	16.18
13:25	7.00	0.01	2.11	0.02	178	1	0.00	0.15	3.9	4	13.9	-0.03	200	16.15
13:30	7.00	0	2.08	0.03	177	1	0.00	0	2	1.9	13.9	-0.04	200	16.22
13:35	7.00	0	2.06	0.02	174	3	0.00	0	1.6	0.4	14.1	-0.22	200	16.3
13:40	7.00	0	2.02	0.04	171	3	0.00	0	1.7	-0.1	14.3	-0.17	200	16.26
13:45	7.01	-0.01	1.99	0.03	170	1	0.00	0	1.4	0.3	14.2	0.11	200	16.22
13:50	7.01	0	1.96	0.03	168	2	0.00	0	1.1	0.3	14.1	0.11	200	16.2
13:55	7.01	0	1.93	0.03	167	1	0.00	0	1.3	-0.2	14.1	-0.01	200	16.19

COMMENTS: **Sample @ 13:55**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: P. Trudell
WEATHER:

MONITOR WELL #: MW10 WELL DEPTH: 54.21
WELL PERMIT #: 2500056570 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 45 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: 0 DEPTH TO WATER BEFORE PUMP INSTALLATION: 12.62 ft below TOC

	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
TIME	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
15:40	8.70	NA	0.319	NA	109	NA	3.62	NA	410	NA	13.6	NA	200	13.8
15:45	8.63	0.07	0.319	0	110	-1	3.17	0.45	271	139	14.0	-0.44	175	15.3
15:50	8.59	0.04	0.319	0	111	-1	2.81	0.36	192	79	14.1	-0.03	175	15.5
15:55	8.56	0.03	0.319	0	111	0	2.46	0.35	150	42	14.1	-0.01	205	15.75
16:00	8.36	0.2	0.316	0.003	110	1	2.20	0.26	127	23	14.1	0.002	205	16.07
16:05	8.34	0.02	0.318	-0.002	111	-1	0.00	2.2	128	-1	14.0	0.038	175	16.2
16:10	8.39	-0.05	0.318	0	116	-5	0.00	0	119	9	14.1	-0.1	175	16.3
16:15	8.40	-0.01	0.319	-0.001	115	1	0.00	0	123	-4	14.1	-0.02	175	16.35

COMMENTS: **Sample @**
ANALYSIS: **TCL VOC, TCL SVOC, TCL PCB (Aroclors), TAL Metals, Pesticides**
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: J. Ganz
WEATHER:

MONITOR WELL #: MW11 WELL DEPTH: 60.14
WELL PERMIT #: 2500056571 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 NJSPEPN6
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 47 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: DEPTH TO WATER BEFORE PUMP INSTALLATION: ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
11:35	8.83	NA	0.163	NA	240	NA	6.37	NA	290	NA	15.1	NA	215	15.78
11:40	9.00	-0.17	0.159	0.004	202	38	6.04	0.33	198	92	15.2	-0.07	180	16.31
11:45	9.03	-0.03	0.163	-0.004	191	11	5.85	0.19	174	24	15.6	-0.34	180	16.41
11:50	9.07	-0.04	0.162	0.001	160	31	5.79	0.06	157	17	15.6	-0.01	160	16.33
11:55	9.07	0.000	0.163	-0.001	179	-19	7.51	-1.72	137	20	15.7	-0.18	160	16.32
12:00	9.09	-0.02	0.163	0.000	177	2	7.50	0.01	128	9	15.6	0.11	160	16.32
12:05	9.10	-0.01	0.166	-0.003	174	3	7.20	0.3	106	22	15.7	-0.03	160	16.32
12:10	9.03	0.07	0.177	-0.011	173	1	7.02	0.18	83.9	22.1	15.6	0.02	160	16.32
12:15	9.05	-0.02	0.183	-0.006	172	1	6.80	0.22	78.9	5	15.6	0.04	160	16.31
12:20	8.91	0.14	0.199	-0.016	176	-4	6.55	0.25	57.2	21.7	15.6	0.01	160	16.24
12:25	8.94	-0.03	0.210	-0.011	172	4	6.23	0.32	45.9	11.3	15.6	0.02	160	16.2
12:30	8.88	0.06	0.219	-0.009	173	-1	6.13	0.1	37.3	8.6	15.5	0.09	160	16.21
12:35	8.81	0.07	0.227	-0.008	173	0	5.79	0.34	31.5	5.8	15.5	-0.02	160	16.22
12:40	8.86	-0.05	0.234	-0.007	170	3	5.58	0.21	25.4	6.1	15.5	0.00	160	16.20
12:45	8.84	0.02	0.240	-0.006	169	1	5.45	0.13	23.7	1.7	15.5	0.02	160	16.18
12:50	8.83	0.01	0.245	-0.005	168	1	5.31	0.14	19	4.7	15.4	0.09	160	16.12
12:55	8.75	0.08	0.250	-0.005	167	1	5.11	0.2	15.3	3.7	15.4	0.01	160	16.08
13:00	8.79	-0.04	0.255	-0.005	166	1	5.24	-0.13	14	1.3	15.5	-0.07	160	16.07
13:05	8.78	0.01	0.259	-0.004	166	0	5.18	0.06	12	2	15.5	-0.05	160	16.07
13:10	8.77	0.01	0.260	-0.001	166	0	5.10	0.08	11.8	0.2	15.5	-0.03	160	16.07

COMMENTS: **Sample @**
ANALYSIS:
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

SITE: Cornell-Dubilier OU3 CONSULTING FIRM: Louis Berger
DATE: 12/20/2016 FIELD PERSONNEL: P. Trudell
WEATHER:

MONITOR WELL #: MW12 WELL DEPTH: 57.59
WELL PERMIT #: 2500056891 WELL DIAMETER: 2 SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U52 EF9F02DM
PID BACKGROUND : 0 PUMP INTAKE DEPTH: 48 ft below TOC
PID BENEATH OUTER CAP: 0
PID BENEATH INNER CAP: DEPTH TO WATER BEFORE PUMP INSTALLATION: ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
11:06	6.77	NA	1.85	NA	-50	NA	0	NA	800	NA	15.0	NA	240	16.20
11:11	6.80	-0.03	1.87	-0.02	25	-75	0	0	543	257	15.0	-0.06	200	16.01
11:16	6.81	-0.01	1.88	-0.01	16	9	0	0	451	92.0	15.2	-0.20	200	16.05
11:21	6.82	-0.01	1.87	0.01	6	10	0	0	371	80.0	15.6	-0.34	200	16.10
11:26	6.83	-0.01	1.85	0.02	8	-2	0	0	328	43.0	15.6	-0.02	200	16.10
11:31	6.83	0.00	1.85	0.00	6	2	0	0	278	50.0	15.7	-0.11	200	16.07
11:36	6.83	0.00	1.86	-0.01	8	-2	0	0	230	48.0	15.6	0.11	200	16.08
11:41	6.84	-0.01	1.87	-0.01	7	1	0	0	181	49.0	15.7	-0.12	200	16.03
11:46	6.83	0.01	1.88	-0.01	10	-3	0	0	150	31.0	15.7	0.03	200	16.02
11:51	6.84	-0.01	1.84	0.04	14	-4	0	0	127	23.0	15.7	0.01	200	16.03
11:56	7.00	-0.16	1.92	-0.08	30	-16	0	0	114	13.0	15.5	0.21	200	16.02
12:01	6.88	0.12	1.91	0.01	29	1	0	0	92.2	21.8	15.4	0.02	200	16.03
12:06	6.85	0.03	1.92	-0.01	31	-2	0	0	86.3	5.9	15.4	0.06	200	15.99
12:11	6.86	-0.01	1.92	0.00	34	-3	0	0	76.0	10.3	15.5	-0.09	170	15.75
12:16	6.85	0.01	1.93	-0.01	38	-4	0	0	67.0	9.0	15.5	-0.01	170	15.90
12:21	6.85	0.00	1.92	0.01	38	0	0	0	67.0	0.0	15.5	0.01	170	15.96
12:26	6.85	0.00	1.93	-0.01	38	0	0	0	63.1	3.9	15.4	0.06	170	15.90
12:31	6.87	-0.02	1.93	0.00	37	1	0	0	56.0	7.1	15.4	-0.02	170	15.95
12:36	6.83	0.04	1.94	-0.01	32	5	0	0	30.1	25.9	15.4	0.05	170	15.90
12:41	6.84	-0.01	1.94	0.00	24	8	0	0	44.5	-14.4	15.3	0.05	160	16.00
12:46	6.83	0.01	1.93	0.01	41	-17	0	0	42.2	2.3	15.3	0.06	160	16.00
12:51	6.84	-0.01	1.92	0.01	33	8	0	0	41.6	0.6	15.3	-0.07	160	16.00
12:56	6.86	-0.02	1.91	0.01	24	9	0	0	42.9	-1.3	15.3	0.02	160	16.00
13:01	6.87	-0.01	1.90	0.01	17	7	0	0	39.2	3.7	15.5	-0.14	160	16.00

COMMENTS: **Sample @**
ANALYSIS:
***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 1

Date/Weather: 12/29/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.19 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	20.76 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.56 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.319 Liters
5. Port Interval:	28.50 ft bgs	11. Remaining Sample Volume:	4.30 Liters
6. Pump Depth:	133.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:11:38	0:08:44	0:10:03	0:08:30	
Start Time (24 hr)	7:29:00	7:46:00	7:59:30	8:14:00	8:27:00	
Stop Time (24 hr)	7:34:22	7:50:46	8:03:57	8:18:30	8:31:22	
Tot Purge Time (min:sec)	05:22	04:46	04:27	04:30	04:22	
Temperature (°C)	10.53	12.58	11.70	12.24	13.19	
pH (S.U.)	8.16	7.95	7.54	7.56	7.40	
ORP	94	-10	98	143	115	
Conductivity (mS/cm)	0.824	0.695	0.694	0.688	0.680	
Turbidity (NTU)	40.8	16.2	34.4	28.6	68.5	
Dissolved O (mg/L)	0.70	0.00	0.00	0.00	0.00	
Volume Purged (L)	5.00	4.67	4.80	4.55	4.48	
Tot Vol Purged (L)		9.7	14.5	19.0	23.5	

SAMPLE TIME: Start 10:00 Stop 10:30

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.48**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 2

Date/Weather: 12/29/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.30 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.20 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.60 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.355 Liters
5. Port Interval:	42.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	134.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10:36	0:08:44	0:09:51	0:08:16	
Start Time (24 hr)	7:29:00	7:46:00	7:59:30	8:14:00	8:27:00	
Stop Time (24 hr)	7:35:24	7:50:46	8:04:09	8:18:44	8:31:39	
Tot Purge Time (min)	06:24	04:46	04:39	04:44	04:39	
Temperature (°C)	11.65	11.25	11.92	11.67	11.96	
pH (S.U.)	7.07	7.41	7.36	7.45	7.51	
ORP	180	159	183	162	153	
Conductivity (mS/cm)	0.846	0.753	0.738	0.748	0.744	
Turbidity (NTU)	16.1	7.6	8.3	6.8	8.2	
Dissolved O (mg/L)	8.52	1.10	0.93	0.00	0.00	
Volume Purged (L)	4.92	4.94	4.89	4.96	4.75	
Tot Vol Purged (L)		9.9	14.7	19.7	24.5	

SAMPLE TIME: Start 10:05 Stop 10:21

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.53

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 3

Date/Weather: 12/29/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.35 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.40 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.63 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.357 Liters
5. Port Interval:	56.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	135.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:12:10	0:08:20	0:09:51	0:08:28	
Start Time (24 hr)	7:29:00	7:46:00	7:59:00	8:14:00	8:27:00	
Stop Time (24 hr)	7:33:50	7:50:40	8:04:09	8:18:32	8:31:37	
Tot Purge Time (min)	04:50	04:40	05:09	04:32	04:37	
Temperature (°C)	12.29	12.36	12.42	12.37	12.53	
pH (S.U.)	8.27	7.86	7.59	7.43	7.44	
ORP	-53	34	98	160	152	
Conductivity (mS/cm)	0.641	0.645	0.649	0.718	0.719	
Turbidity (NTU)	9.5	6.5	2.7	14.3	12.4	
Dissolved O (mg/L)	1.27	8.52	2.43	0.00	0.00	
Volume Purged (L)	4.92	4.96	4.85	4.87	4.77	
Tot Vol Purged (L)		9.9	14.7	19.6	24.4	

SAMPLE TIME: Start 10:10 Stop 10:22

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.51**

Analyses:

NOTES: Sulfur Odor (all purges)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 4

Date/Weather: 12/29/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.56 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.67 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.359 Liters
5. Port Interval:	63.50 ft bgs	11. Remaining Sample Volume:	4.26 Liters
6. Pump Depth:	136.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:03:12	0:06:37	0:06:46	0:07:09	
Start Time (24 hr)	10:45:00	10:53:30	11:04:00	11:16:00	11:28:00	
Stop Time (24 hr)	10:50:18	10:57:23	11:09:14	11:20:51	11:33:55	
Tot Purge Time (min)	05:18	03:53	05:14	04:51	05:55	
Temperature (°C)	12.91	12.99	13.13	13.15	12.82	
pH (S.U.)	7.44	7.47	7.50	7.51	7.47	
ORP	-62	10	92	119	138	
Conductivity (mS/cm)	0.625	0.629	0.623	0.623	0.625	
Turbidity (NTU)	2.8	2.9	0.0	0.0	0.0	
Dissolved O (mg/L)	1.37	0.00	0.00	0.00	0.00	
Volume Purged (L)	5.09	3.30	4.88	4.83	4.78	
Tot Vol Purged (L)		8.4	13.3	18.1	22.9	

SAMPLE TIME: Start 11:40 Stop 11:52

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.79

Analyses:

NOTES: Sulfur odor (all purges)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 5

Date/Weather: 12/29/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.72 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.71 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	75.50 ft bgs	11. Remaining Sample Volume:	4.26 Liters
6. Pump Depth:	137.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:02:57	0:06:37	0:06:59	0:07:22	
Start Time (24 hr)	10:45:00	10:53:00	11:04:00	11:16:00	11:28:00	
Stop Time (24 hr)	10:50:03	10:57:23	11:09:01	11:20:38	11:33:55	
Tot Purge Time (min)	05:03	04:23	05:01	04:38	05:55	
Temperature (°C)	12.50	12.90	12.92	12.87	12.83	
pH (S.U.)	7.56	7.57	7.58	7.61	7.59	
ORP	-63	3	86	101	115	
Conductivity (mS/cm)	0.729	0.693	0.690	0.686	0.687	
Turbidity (NTU)	8.3	6.1	3.2	2.5	3.4	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00	
Volume Purged (L)	4.86	3.49	4.80	4.92	4.90	
Tot Vol Purged (L)		8.4	13.2	18.1	23.0	

SAMPLE TIME: Start 11:45 Stop 12:02

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.82**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT1 Port 6

Date/Weather: 12/29/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.48 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.92 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.75 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.364 Liters
5. Port Interval:	104.50 ft bgs	11. Remaining Sample Volume:	4.26 Liters
6. Pump Depth:	138.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:07:40	0:06:22	0:06:53		
Start Time (24 hr)	13:35:00	13:48:00	14:00:00	14:12:00		
Stop Time (24 hr)	13:40:20	13:53:38	14:05:07	14:17:09		
Tot Purge Time (min)	05:20	05:38	05:07	05:09		
Temperature (°C)	12.24	12.83	12.61	12.89		
pH (S.U.)	7.69	7.54	7.60	7.52		
ORP	115	128	133	128		
Conductivity (mS/cm)	0.753	0.761	0.755	0.747		
Turbidity (NTU)	6.2	9.3	4.7	3.2		
Dissolved O (mg/L)	1.88	1.35	0.00	0.00		
Volume Purged (L)	4.15	5.16	5.12	5.11		
Tot Vol Purged (L)		9.3	14.4	19.5		

SAMPLE TIME: Start 14:30 Stop 14:34

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): **0.74**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 7

Date/Weather: 12/29/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.52 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.08 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.79 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.366 Liters
5. Port Interval:	116.50 ft bgs	11. Remaining Sample Volume:	4.26 Liters
6. Pump Depth:	140.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:07:31	0:06:39	0:06:40		
Start Time (24 hr)	13:35:00	13:48:00	14:00:00	14:12:00		
Stop Time (24 hr)	13:40:29	13:53:21	14:05:20	14:17:37		
Tot Purge Time (min)	05:29	05:21	05:20	05:37		
Temperature (°C)	12.96	13.08	13.21	12.89		
pH (S.U.)	7.39	7.51	7.43	7.46		
ORP	131	143	141	146		
Conductivity (mS/cm)	0.675	0.688	0.683	0.686		
Turbidity (NTU)	2.5	0.0	0.0	0.0		
Dissolved O (mg/L)	1.69	0.00	0.00	0.00		
Volume Purged (L)	5.27	5.12	5.17	5.17		
Tot Vol Purged (L)		10.4	15.6	20.7		

SAMPLE TIME: Start 14:35 Stop 14:42

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.74**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 8

Date/Weather: 12/29/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.56 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.24 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.83 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.368 Liters
5. Port Interval:	139.50 ft bgs	11. Remaining Sample Volume:	4.25 Liters
6. Pump Depth:	140.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:07:00	0:06:35	0:06:38		
Start Time (24 hr)	13:35:00	13:48:00	14:00:00	14:12:00		
Stop Time (24 hr)	13:41:00	13:53:25	14:05:22	14:17:13		
Tot Purge Time (min)	06:00	05:25	05:22	05:13		
Temperature (°C)	12.88	12.88	12.84	13.14		
pH (S.U.)	7.56	7.44	7.47	7.44		
ORP	120	133	137	131		
Conductivity (mS/cm)	0.856	0.859	0.850	0.837		
Turbidity (NTU)	12.4	4.6	6.7	5.4		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	5.16	5.16	5.15	5.13		
Tot Vol Purged (L)		10.3	15.5	20.6		

SAMPLE TIME: Start 14:50 Stop 14:55

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.76**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT1 Port 3

Date/Weather: 1/4/17 **Water Meter Serial #:** E80

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.35 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.40 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.63 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.357 Liters
5. Port Interval:	56.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	135.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:06:13	0:06:40			
Start Time (24 hr)	13:46:00	13:57:00	14:08:00			
Stop Time (24 hr)	13:50:47	14:01:20	14:12:37			
Tot Purge Time (min)	04:47	04:20	04:37			
Temperature (°C)	13.69	13.53	13.72			
pH (S.U.)	7.60	7.60	7.61			
ORP	128	150	148			
Conductivity (mS/cm)	0.511	0.511	0.515			
Turbidity (NTU)	0.0	0.0	0.0			
Dissolved O (mg/L)	4.08	0.00	0.00			
Volume Purged (L)	4.82	4.58	4.63			
Tot Vol Purged (L)		9.40	14.03			

SAMPLE TIME: Start 10:10 Stop 10:22

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.72**

Analyses:

NOTES: Sulfur Odor (all purges)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT2 Port 1

Date/Weather: 1/5/16 **Water Meter Serial #:** PB

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.24 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	20.96 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.59 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.321 Liters
5. Port Interval:	34.50 ft bgs	11. Remaining Sample Volume:	4.34 Liters
6. Pump Depth:	134.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:06:37	0:51:03	0:06:09		
Start Time (24 hr)	7:44:00	7:54:30	8:49:00	8:59:00		
Stop Time (24 hr)	7:47:53	7:57:57	8:52:51	9:02:19		
Tot Purge Time (min)	03:53	03:27	03:51	03:19		
Temperature (°C)	13.63	14.13	13.23	13.27		
pH (S.U.)	6.65	6.82	6.94	7.13		
ORP	49	76	41	35		
Conductivity (mS/cm)	4.080	4.730	4.660	4.810		
Turbidity (NTU)	6.5	1.1	14.9	0.0		
Dissolved O (mg/L)	4.26	1.10	0.00	0.00		
Volume Purged (L)	4.08	3.59	3.84	3.40		
Tot Vol Purged (L)		7.7	11.5	14.9		

SAMPLE TIME: Start 9:30 Stop 9:45

Add'l Samples (circle): DUP **MS/MSD** **Lab Rep**

Other

Average Recovery Rate (L/MIN): **0.39**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s): **Well ID and Port #:** ERT2 Port 2

Date/Weather: 1/5/16 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.35 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.40 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.63 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.357 Liters
5. Port Interval:	49.50 ft bgs	11. Remaining Sample Volume:	4.30 Liters
6. Pump Depth:	135.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35:12	2:52:53	0:56:44		
Start Time (24 hr)	7:29:00	8:08:00	11:05:00	12:06:00		
Stop Time (24 hr)	7:32:48	8:12:07	11:09:16	12:10:03		
Tot Purge Time (min)	03:48	04:07	04:16	04:03		
Temperature (°C)	12.96	13.04	13.85	13.20		
pH (S.U.)	6.53	7.36	7.39	7.37		
ORP	250	149	192	174		
Conductivity (mS/cm)	2.450	2.180	2.380	2.420		
Turbidity (NTU)	6.2	2.6	0.0	1.5		
Dissolved O (mg/L)	0.00	1.80	0.00	0.00		
Volume Purged (L)	4.05	4.01	4.07	4.08		
Tot Vol Purged (L)		8.1	12.1	16.2		

SAMPLE TIME: Start 12:45 Stop 13:08

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.07**

Analyses:

NOTES: Manifold sprung leak and Nitrogen tank lost most of pressure. Had to replace tank in the middle of purge

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT2 Port 3

Date/Weather: 1/5/16 **Water Meter Serial #:** E8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.56 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.67 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.359 Liters
5. Port Interval:	58.50 ft bgs	11. Remaining Sample Volume:	4.30 Liters
6. Pump Depth:	136.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35:09	2:55:40	2:18:08		
Start Time (24 hr)	7:29:00	8:08:00	11:05:00	13:27:00		
Stop Time (24 hr)	7:32:51	8:09:20	11:08:52	13:29:55		
Tot Purge Time (min)	03:51	01:20	03:52	02:55		
Temperature (°C)	12.87	10.86	13.37	13.20		
pH (S.U.)	6.63	7.74	7.73	7.71		
ORP	262	138	156	148		
Conductivity (mS/cm)	0.691	0.666	0.673	0.665		
Turbidity (NTU)	1.1	6.5	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.90	0.73	3.40	2.75		
Tot Vol Purged (L)		4.6	8.0	10.8		

SAMPLE TIME: No Sample Collected

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.02

Analyses:

NOTES: No Sample Collected

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT2 Port 4

Date/Weather: 1/5/16 **Water Meter Serial #:** PB

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.72 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.71 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	74.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	137.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:35:00	2:52:49	0:56:44		
Start Time (24 hr)	7:29:00	8:08:00	11:05:00	12:06:00		
Stop Time (24 hr)	7:33:00	8:12:11	11:09:16	12:10:09		
Tot Purge Time (min)	04:00	04:11	04:16	04:09		
Temperature (°C)	13.38	13.56	13.81	13.73		
pH (S.U.)	6.80	7.46	7.53	7.52		
ORP	104	132	177	159		
Conductivity (mS/cm)	0.577	0.638	0.626	0.688		
Turbidity (NTU)	21.4	2.0	0.0	1.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.20	4.15	4.12	4.23		
Tot Vol Purged (L)		7.3	11.5	15.7		

SAMPLE TIME: Start 12:50 Stop 13:13

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.07

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT2 Port 5

Date/Weather: 1/5/16 **Water Meter Serial #:** E8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.48 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.92 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.75 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.364 Liters
5. Port Interval:	104.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	138.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:05:52	0:50:24	0:05:59		
Start Time (24 hr)	7:44:00	7:54:30	8:49:00	8:59:00		
Stop Time (24 hr)	7:48:38	7:58:36	8:53:01	9:03:02		
Tot Purge Time (min)	04:38	04:06	04:01	04:02		
Temperature (°C)	12.83	13.32	13.23	13.52		
pH (S.U.)	7.36	7.54	7.49	7.67		
ORP	124	138	163	146		
Conductivity (mS/cm)	0.577	0.597	0.591	0.585		
Turbidity (NTU)	3.7	0.0	0.0	0.0		
Dissolved O (mg/L)	1.04	0.00	0.00	0.00		
Volume Purged (L)	4.68	4.15	4.18	4.15		
Tot Vol Purged (L)		8.8	13.0	17.2		

SAMPLE TIME: Start 9:35 Stop 10:06

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.49**

Analyses:

NOTES:

0.69

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT2 Port 6

Date/Weather: 1/5/16 **Water Meter Serial #:** E8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.52 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.08 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.79 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.366 Liters
5. Port Interval:	122.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	139.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:06:13	0:50:23	0:04:23		
Start Time (24 hr)	7:44:00	7:54:30	8:49:00	8:59:00		
Stop Time (24 hr)	7:48:17	7:58:37	8:54:37	9:03:05		
Tot Purge Time (min)	04:17	04:07	05:37	04:05		
Temperature (°C)	13.24	13.67	13.53	13.88		
pH (S.U.)	7.37	7.54	7.45	7.60		
ORP	109	130	158	142		
Conductivity (mS/cm)	0.548	0.560	0.566	0.560		
Turbidity (NTU)	1.5	0.0	0.0	0.0		
Dissolved O (mg/L)	1.36	0.00	0.00	0.00		
Volume Purged (L)	4.32	4.40	4.15	4.12		
Tot Vol Purged (L)		8.7	12.9	17.0		

SAMPLE TIME: Start 9:40 Stop 9:52

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.58**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT2 Port 7

Date/Weather: 1/5/16 **Water Meter Serial #:** E8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.56 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.24 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.83 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.368 Liters
5. Port Interval:	133.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	140.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:34:34	2:52:33	0:56:19		
Start Time (24 hr)	7:29:00	8:08:00	11:05:00	12:06:00		
Stop Time (24 hr)	7:33:26	8:12:27	11:09:41	12:10:39		
Tot Purge Time (min)	04:26	04:27	04:41	04:39		
Temperature (°C)	13.39	13.04	13.55	13.53		
pH (S.U.)	6.83	7.64	7.76	7.77		
ORP	196	132	152	109		
Conductivity (mS/cm)	0.447	0.508	0.505	0.499		
Turbidity (NTU)	13.5	1.3	0.0	0.0		
Dissolved O (mg/L)	5.62	0.00	0.00	0.00		
Volume Purged (L)	4.40	4.24	4.22	4.22		
Tot Vol Purged (L)		8.6	12.9	17.1		

SAMPLE TIME: Start 12:55 Stop 13:18

MS/MSD Lab Rep. DUP MS/MSD Lab Rep.

Other: VOC only DUP

Average Recovery Rate (L/MIN): **0.07**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-3 Port 1

Date/Weather: 1/13/17 **Water Meter Serial #:** TJ

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.28 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.12 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.63 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.324 Liters
5. Port Interval:	36.50 ft bgs	11. Remaining Sample Volume:	4.37 Liters
6. Pump Depth:	120.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:12:37	0:09:50	0:09:49		
Start Time (24 hr)	10:40:00	10:57:00	11:11:00	11:25:00		
Stop Time (24 hr)	10:44:23	11:01:10	11:15:11	11:28:52		
Tot Purge Time (min)	04:23	04:10	04:11	03:52		
Temperature (°C)	12.51	13.19	13.42	13.60		
pH (S.U.)	7.46	7.45	7.43	7.36		
ORP	98	113	121	128		
Conductivity (mS/cm)	2.530	3.640	3.900	4.370		
Turbidity (NTU)	3.1	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.5	4.4	4.4	4.4		
Tot Vol Purged (L)		8.9	13.3	17.6		

SAMPLE TIME: Start 13:03 Stop 13:46

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.41**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-3 Port 2

Date/Weather: 1/13/17 **Water Meter Serial #:** TJ

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.56 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.67 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.359 Liters
5. Port Interval:	64.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	121.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:12:26	0:09:39	0:09:46		
Start Time (24 hr)	10:40:00	10:57:00	11:11:00	11:25:00		
Stop Time (24 hr)	10:44:34	11:01:21	11:15:14	11:28:02		
Tot Purge Time (min)	04:34	04:21	04:14	03:02		
Temperature (°C)	12.64	13.80	13.65	13.78		
pH (S.U.)	7.47	7.38	7.44	7.43		
ORP	28	92	101	114		
Conductivity (mS/cm)	2.120	2.230	2.500	2.430		
Turbidity (NTU)	3.0	0.0	1.0	2.3		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.6	4.5	4.5	4.6		
Tot Vol Purged (L)		9.1	13.5	18.1		

SAMPLE TIME: Start 13:03 Stop 13:47

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.43**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-3 Port 3

Date/Weather: 1/13/17 **Water Meter Serial #:** TJ

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.72 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.71 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	98.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	122.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:12:26	0:09:47	0:09:42		
Start Time (24 hr)	10:40:00	10:57:00	11:11:00	11:25:00		
Stop Time (24 hr)	10:44:34	11:01:13	11:15:18	11:29:08		
Tot Purge Time (min)	04:34	04:13	04:18	04:08		
Temperature (°C)	13.42	13.53	13.80	13.91		
pH (S.U.)	7.34	7.43	7.37	7.36		
ORP	49	94	99	110		
Conductivity (mS/cm)	2.470	25.400	2.230	2.190		
Turbidity (NTU)	0.0	0.4	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.5	4.5	4.6	4.5		
Tot Vol Purged (L)		9.0	13.6	18.1		

SAMPLE TIME: Start 13:15 Stop 13:55

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): **0.43**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-3 Port 4

Date/Weather: 1/13/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.48 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.92 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.75 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.364 Liters
5. Port Interval:	104.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	123.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:12:22				
Start Time (24 hr)	10:40:00	10:57:00				
Stop Time (24 hr)	10:44:38	10:57:13				
Tot Purge Time (min)	04:38	00:13				
Temperature (°C)	13.11					
pH (S.U.)	7.92					
ORP	173					
Conductivity (mS/cm)	1.250					
Turbidity (NTU)	0.0					
Dissolved O (mg/L)	1.91					
Volume Purged (L)	4.6	0.1				
Tot Vol Purged (L)						

SAMPLE TIME: N/A

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.01

Analyses:

NOTES: No Sample Collected Due to Poor Recovery

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-3 Port 5

Date/Weather: 1/13/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.52 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.08 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.79 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.366 Liters
5. Port Interval:	119.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	124.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:12:11	0:09:28	0:09:32		
Start Time (24 hr)	10:40:00	10:57:00	11:11:00	11:25:00		
Stop Time (24 hr)	10:44:49	11:01:32	11:15:28	11:29:27		
Tot Purge Time (min)	04:49	04:32	04:28	04:27		
Temperature (°C)	13.71	13.83	13.76	13.86		
pH (S.U.)	7.48	8.00	7.67	7.65		
ORP	192	161	177	179		
Conductivity (mS/cm)	1.180	1.220	1.190	1.200		
Turbidity (NTU)	1.1	1.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.6	4.6	4.6	4.7		
Tot Vol Purged (L)		9.2	13.8	18.5		

SAMPLE TIME: Start 13:03 Stop 13:46

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.45**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-3 Port 6

Date/Weather: 1/13/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.56 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.24 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.83 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.368 Liters
5. Port Interval:	133.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	125.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:12:02	0:09:20	0:09:20		
Start Time (24 hr)	10:40:00	10:57:00	11:11:00	11:25:00		
Stop Time (24 hr)	10:44:58	11:01:40	11:15:40	11:29:28		
Tot Purge Time (min)	04:58	04:40	04:40	04:28		
Temperature (°C)	13.79	14.00	13.93	13.94		
pH (S.U.)	7.47	7.53	7.63	7.66		
ORP	187	184	180	181		
Conductivity (mS/cm)	1.100	1.130	1.100	1.100		
Turbidity (NTU)	2.3	2.8	0.0	0.0		
Dissolved O (mg/L)	2.02	1.68	2.36	2.48		
Volume Purged (L)	4.7	4.7	4.7	4.8		
Tot Vol Purged (L)		9.4	14.2	18.9		

SAMPLE TIME: Start 13:15 Stop 13:55

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): **0.47**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-4 Port 1

Date/Weather: 1/17/17 **Water Meter Serial #: PG** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.21 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	20.84 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.57 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.320 Liters
5. Port Interval:	36.50 ft bgs	11. Remaining Sample Volume:	4.31 Liters
6. Pump Depth:	119.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:03	36:04	06:02		
Start Time (24 hr)	8:10:30	8:24:00	9:03:30	9:13:00		
Stop Time (24 hr)	8:13:57	8:27:26	9:06:58	9:16:11		
Tot Purge Time (min)	03:27	03:26	03:28	03:11		
Temperature (°C)	10.49	11.47	11.13	11.42		
pH (S.U.)	7.88	7.76	7.48	7.42		
ORP	147	148	157	151		
Conductivity (mS/cm)	1.080	1.070	0.454	0.418		
Turbidity (NTU)	1.7	1.2	0.8	1.6		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.18	4.18	4.15	3.89		
Tot Vol Purged (L)		8.4	12.5	16.4		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN) : 0.53

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-4 Port 2

Date/Weather: 1/17/17 **Water Meter Serial #:** PG

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.32 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.28 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.61 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.356 Liters
5. Port Interval:	55.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	120.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		35:28	44:25	53:59		
Start Time (24 hr)	7:57:30	8:36:30	9:24:30	11:22:00		
Stop Time (24 hr)	8:01:02	8:40:05	9:28:01	11:25:30		
Tot Purge Time (min)	03:32	03:35	03:31	03:30		
Temperature (°C)	10.26	11.62	11.62	11.21		
pH (S.U.)	8.25	7.64	7.46	7.33		
ORP	164	155	144	145		
Conductivity (mS/cm)	1.100	1.030	0.411	0.409		
Turbidity (NTU)	0.5	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.15	4.33	4.12	4.20		
Tot Vol Purged (L)		8.5	12.6	16.8		

SAMPLE TIME: Start_1201_____ Stop_1238____

Average Recovery Rate (L/MIN) : **0.12**

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-4 Port 3

Date/Weather: 1/17/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.36 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.44 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.65 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.358 Liters
5. Port Interval:	65.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	121.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		35:27	44:23	53:58		
Start Time (24 hr)	7:57:30	8:36:30	9:24:30	11:22:00		
Stop Time (24 hr)	8:01:03	8:40:07	9:28:02	11:25:31		
Tot Purge Time (min)	03:33	03:37	03:32	03:31		
Temperature (°C)	11.40	11.75	11.68	11.68		
pH (S.U.)	8.03	7.60	7.42	7.39		
ORP	157	155	144	141		
Conductivity (mS/cm)	1.040	1.050	0.408	0.409		
Turbidity (NTU)	7.2	0.5	0.0	0.0		
Dissolved O (mg/L)	0.00	2.85	0.00	0.00		
Volume Purged (L)	4.10	4.23	4.29	4.25		
Tot Vol Purged (L)		8.3	12.6	16.9		

SAMPLE TIME: Start_1214_____ Stop_1244____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN) : **0.12**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-4 Port 4

Date/Weather: 1/17/17 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.41 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.64 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.69 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.360 Liters
5. Port Interval:	87.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	122.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		35:09	44:14	54:27		
Start Time (24 hr)	7:57:30	8:36:30	9:24:30	11:22:00		
Stop Time (24 hr)	8:01:21	8:40:16	9:27:33	11:25:47		
Tot Purge Time (min)	03:51	03:46	03:03	03:47		
Temperature (°C)	9.28	11.01	11.04	11.07		
pH (S.U.)	8.53	7.65	7.63	7.60		
ORP	167	188	125	135		
Conductivity (mS/cm)	1.280	1.200	0.577	0.560		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	2.61	1.47	0.18	0.00		
Volume Purged (L)	4.16	4.30	4.21	4.28		
Tot Vol Purged (L)		8.5	12.7	17.0		

SAMPLE TIME: Start_1201 Stop_1240

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN) : **0.12**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-4 Port 5

Date/Weather: 1/17/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.45 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.80 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.72 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	105.50 ft bgs	11. Remaining Sample Volume:	4.27 Liters
6. Pump Depth:	123.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:44	35:44	05:44		
Start Time (24 hr)	8:10:30	8:24:00	9:03:30	9:13:00		
Stop Time (24 hr)	8:14:16	8:27:46	9:07:16	9:16:43		
Tot Purge Time (min)	03:46	03:46	03:46	03:43		
Temperature (°C)	10.94	11.33	11.13	11.14		
pH (S.U.)	7.88	7.69	7.52	7.27		
ORP	185	189	128	132		
Conductivity (mS/cm)	1.140	1.200	0.605	0.586		
Turbidity (NTU)	0.0	0.0	14.2	0.0		
Dissolved O (mg/L)	3.01	0.15	0.91	0.00		
Volume Purged (L)	4.24	4.25	4.26	4.33		
Tot Vol Purged (L)		8.5	12.7	17.1		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN) : 0.44

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-4 Port 6

Date/Weather: 1/17/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.49 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.96 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.76 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.365 Liters
5. Port Interval:	115.50 ft bgs	11. Remaining Sample Volume:	4.26 Liters
6. Pump Depth:	124.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		09:40	35:39	05:40		
Start Time (24 hr)	8:10:30	8:24:00	9:03:30	9:13:00		
Stop Time (24 hr)	8:14:20	8:27:51	9:07:20	9:16:47		
Tot Purge Time (min)	03:50	03:51	03:50	03:47		
Temperature (°C)	11.46	11.79	11.71	11.48		
pH (S.U.)	7.83	7.74	7.34	7.42		
ORP	185	186	123	1		
Conductivity (mS/cm)	1.170	1.190	0.595	0.578		
Turbidity (NTU)	1.1	1.0	1.3	1.0		
Dissolved O (mg/L)	1.42	0.65	0.81	0.70		
Volume Purged (L)	4.35	4.33	4.44	4.42		
Tot Vol Purged (L)		8.7	13.1	17.5		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN) : 0.45

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-4 Port 7

Date/Weather: 1/17/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.53 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.12 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.80 Liters
4. Water Table	0.65 ft bgs	10. Minimum Recommended Discard:	0.367 Liters
5. Port Interval:	137.50 ft bgs	11. Remaining Sample Volume:	4.26 Liters
6. Pump Depth:	125.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		34:53	43:53	53:42		
Start Time (24 hr)	7:57:30	8:36:30	9:24:30	11:22:00		
Stop Time (24 hr)	8:01:37	8:40:37	9:28:18	11:25:57		
Tot Purge Time (min)	04:07	04:07	03:48	03:57		
Temperature (°C)	10.55	11.61	11.12	11.09		
pH (S.U.)	8.18	7.55	7.56	7.50		
ORP	178	193	119	139		
Conductivity (mS/cm)	1.200	1.170	0.569	0.573		
Turbidity (NTU)	61.0	0.9	7.7	0.0		
Dissolved O (mg/L)	1.64	5.04	0.85	0.51		
Volume Purged (L)	4.35	4.42	4.36	4.43		
Tot Vol Purged (L)		8.8	13.1	17.6		

SAMPLE TIME: Start_1214 Stop_1244

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN) : **0.13**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-5 Port 1

Date/Weather: 1/10/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.28 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.12 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.63 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.324 Liters
5. Port Interval:	33.50 ft bgs	11. Remaining Sample Volume:	4.37 Liters
6. Pump Depth:	120.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:17	0:08	0:04		
Start Time (24 hr)	13:39:00	14:01:40	14:14:30	14:23:20		
Stop Time (24 hr)	13:44:08	14:06:30	14:19:10	14:27:36		
Tot Purge Time (min)	5:08	5:50	4:40	4:06		
Temperature (°C)	11.39	11.60	11.95	12.61		
pH (S.U.)	7.53	7.32	7.37	7.24		
ORP	-46	163	162	171		
Conductivity (mS/cm)	0.431	0.378	0.383	0.362		
Turbidity (NTU)	2.9	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.84	4.82	4.77	3.57		
Tot Vol Purged (L)		9.7	14.4	18.0		

SAMPLE TIME: Start_1502 Stop_1603

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.58

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-5 Port 2

Date/Weather: 1/10/17 **Water Meter Serial #: V8** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.40 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.58 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.67 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.359 Liters
5. Port Interval:	46.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	121.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:17	0:35	0:04		
Start Time (24 hr)	13:39:00	14:01:40	14:41:30	14:23:30		
Stop Time (24 hr)	13:43:48	14:06:21	14:19:11	14:27:44		
Tot Purge Time (min)	4:48	4:41	4:41	4:14		
Temperature (°C)	11.92	12.65	12.80	12.83		
pH (S.U.)	8.01	7.58	7.29	7.28		
ORP	-20	-106	170	171		
Conductivity (mS/cm)	0.388	0.360	0.362	0.378		
Turbidity (NTU)	4.1	0.0	0.0	0.0		
Dissolved O (mg/L)	2.49	1.54	0.94	0.00		
Volume Purged (L)	4.73	4.84	4.83	3.81		
Tot Vol Purged (L)		9.6	14.4	18.2		

SAMPLE TIME: Start_1507_____ Stop_1540____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.43

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-5 Port 3

Date/Weather: 1/10/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.72 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.71 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	59.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	122.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:17	0:07	0:04		
Start Time (24 hr)	13:39:00	14:01:40	14:14:30	14:23:33		
Stop Time (24 hr)	13:43:55	14:06:35	14:19:21	14:27:39		
Tot Purge Time (min)	4:55	4:52	4:51	4:09		
Temperature (°C)	11.97	12.27	12.59	12.55		
pH (S.U.)	6.77	7.29	7.39	7.23		
ORP	116	150	156	170		
Conductivity (mS/cm)	0.373	0.366	0.365	0.363		
Turbidity (NTU)	33.1	0.0	0.0	0.0		
Dissolved O (mg/L)	3.60	0.00	0.00	0.00		
Volume Purged (L)	5.10	4.79	4.79	4.05		
Tot Vol Purged (L)		9.9	14.7	18.7		

SAMPLE TIME: Start_1502 Stop_1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.61**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-5 Port 4

Date/Weather: 1/11/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.48 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.92 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.75 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.364 Liters
5. Port Interval:	86.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	123.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		##########	0:08	0:06	0:06	
Start Time (24 hr)	13:39:00	7:30:30	7:44:00	7:56:00	8:08:00	
Stop Time (24 hr)	13:43:58	7:35:43	7:49:06	8:01:02	8:13:04	
Tot Purge Time (min)	4:58	5:13	5:06	5:02	5:04	
Temperature (°C)	12.09	12.47	12.81	12.59	13.02	
pH (S.U.)	7.55	7.92	7.78	7.76	7.750	
ORP	-9	172	188	179	178	
Conductivity (mS/cm)	0.355	0.485	0.396	0.391	0.40	
Turbidity (NTU)	11.0	21.7	21.1	20.0	20.6	
Dissolved O (mg/L)	2.39	2.18	1.83	1.87	1.83	
Volume Purged (L)	5.05	4.99	5.08	5.05	4.97	
Tot Vol Purged (L)		10.0	15.1	20.2	25.1	

SAMPLE TIME: Start_0830_____ Stop_0849____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.44**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-5 Port 5

Date/Weather: 1/11/17 **Water Meter Serial #: TJ** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.52 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.08 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.79 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.366 Liters
5. Port Interval:	97.50 ft bgs	11. Remaining Sample Volume:	4.33 Liters
6. Pump Depth:	124.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		##########	0:08	0:06		
Start Time (24 hr)	13:38:00	7:30:30	7:44:00	7:56:00	8:08:00	
Stop Time (24 hr)	13:44:10	7:35:38	7:49:03	8:01:01	8:13:13	
Tot Purge Time (min)	5:10	5:08	5:03	5:01	5:03	
Temperature (°C)	12.63	12.55	12.60	12.74	12.88	
pH (S.U.)	7.07	6.54	7.25	7.52	7.530	
ORP	120	282	256	232	222	
Conductivity (mS/cm)	0.364	0.483	0.426	0.431	0.44	
Turbidity (NTU)	302.0	2.8	0.8	0.9	0.9	
Dissolved O (mg/L)	5.04	0.00	1.73	0.00	0.00	
Volume Purged (L)	5.00	5.07	5.07	4.99	5.01	
Tot Vol Purged (L)		10.1	15.1	20.1	25.1	

SAMPLE TIME: Start_0830_____ Stop_0955____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.44

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-5 Port 6

Date/Weather: 1/11/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.56 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.24 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.83 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.368 Liters
5. Port Interval:	129.50 ft bgs	11. Remaining Sample Volume:	4.32 Liters
6. Pump Depth:	125.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		##########	0:08	0:06	0:06	
Start Time (24 hr)	13:39:00	7:30:30	7:44:00	7:56:00	8:08:00	
Stop Time (24 hr)	13:44:10	7:35:55	7:49:10	8:01:09	8:13:10	
Tot Purge Time (min)	5:10	5:25	5:10	5:09	5:10	
Temperature (°C)	12.82	13.06	13.04	13.03	13.02	
pH (S.U.)	7.51	7.99	7.76	7.77	7.770	
ORP	156	162	175	176	177	
Conductivity (mS/cm)	0.349	0.408	0.395	0.390	0.39	
Turbidity (NTU)	13.1	22.2	20.8	20.9	21.7	
Dissolved O (mg/L)	2.37	1.97	1.78	1.68	1.55	
Volume Purged (L)	5.01	5.06	5.06	5.00	5.17	
Tot Vol Purged (L)		10.1	15.1	20.1	25.3	

SAMPLE TIME: Start_0830 Stop_0849

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.45**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-6 Port 1

Date/Weather: 1/11/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.32 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.28 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.67 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.326 Liters
5. Port Interval:	35.50 ft bgs	11. Remaining Sample Volume:	4.40 Liters
6. Pump Depth:	121.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:09	0:11	0:10		
Start Time (24 hr)	9:33:00	9:48:00	10:04:00	10:19:30		
Stop Time (24 hr)	9:38:07	9:52:42	10:08:43	10:24:11		
Tot Purge Time (min)	5:07	4:42	4:43	4:41		
Temperature (°C)	11.74	12.85	12.46	12.35		
pH (S.U.)	7.52	7.09	6.93	6.97		
ORP	-54	-126	-95	-97		
Conductivity (mS/cm)	0.361	0.432	0.468	0.485		
Turbidity (NTU)	71.0	1.8	7.3	3.2		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	5.08	4.45	4.45	4.35		
Tot Vol Purged (L)		9.5	14.0	18.3		

SAMPLE TIME: Start_1034 Stop_1104

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.42

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-6 Port 2

Date/Weather: 1/10/17 **Water Meter Serial #:** PB

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.72 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.71 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	84.50 ft bgs	11. Remaining Sample Volume:	4.36 Liters
6. Pump Depth:	122.00 ft bgs	12. Initial Port Depth to Water	____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:19	0:14	0:17		
Start Time (24 hr)	7:53:30	8:18:30	8:38:00	9:00:00		
Stop Time (24 hr)	7:58:51	8:23:31	8:42:55	9:04:15		
Tot Purge Time (min)	5:21	5:01	4:55	4:15		
Temperature (°C)	9.62	11.27	11.54	11.00		
pH (S.U.)	7.65	7.55	7.44	7.54		
ORP	0.444	0	0	0		
Conductivity (mS/cm)	178.000	234.000	247.000	240.000		
Turbidity (NTU)	31.5	3.0	0.0	0.0		
Dissolved O (mg/L)	1.79	0.00	0.00	0.00		
Volume Purged (L)	5.30	5.12	5.05	4.38		
Tot Vol Purged (L)		10.4	15.5	19.8		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.29**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-6 Port 3

Date/Weather: 1/10/17 **Water Meter Serial #: E8**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.48 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.92 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.75 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.364 Liters
5. Port Interval:	102.50 ft bgs	11. Remaining Sample Volume:	4.36 Liters
6. Pump Depth:	123.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:19	0:14	0:17		
Start Time (24 hr)	7:53:30	8:18:30	8:38:00	9:00:00		
Stop Time (24 hr)	7:58:53	8:23:47	8:42:59	9:03:08		
Tot Purge Time (min)	5:23	5:17	4:59	3:08		
Temperature (°C)	10.86	8.92	11.72	10.30		
pH (S.U.)	7.64	7.64	7.50	7.77		
ORP	155	1	1	1		
Conductivity (mS/cm)	0.517	143.000	169.000	153.000		
Turbidity (NTU)	17.5	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	5.32	5.33	5.30	2.67		
Tot Vol Purged (L)		10.7	16.0	18.6		

SAMPLE TIME: Start_11:41 Stop_12:15

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.27

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-6 Port 4

Date/Weather: 1/11/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.52 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.08 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.79 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.366 Liters
5. Port Interval:	116.50 ft bgs	11. Remaining Sample Volume:	4.36 Liters
6. Pump Depth:	124.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:09	0:10	0:09		
Start Time (24 hr)	9:33:00	9:48:00	10:04:00	10:19:00		
Stop Time (24 hr)	9:38:22	9:53:20	10:09:24	10:24:18		
Tot Purge Time (min)	5:22	5:20	5:24	5:18		
Temperature (°C)	12.77	12.09	12.41	12.27		
pH (S.U.)	8.08	7.86	7.68	7.66		
ORP	72	111	136	140		
Conductivity (mS/cm)	0.430	0.430	0.437	0.437		
Turbidity (NTU)	28.6	23.8	20.7	21.3		
Dissolved O (mg/L)	0.00	0.77	0.68	0.35		
Volume Purged (L)	5.23	5.23	5.24	5.23		
Tot Vol Purged (L)		10.5	15.7	20.9		

SAMPLE TIME: Start_1034_____ Stop_1103____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.53**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-6 Port 5

Date/Weather: 1/10/17 **Water Meter Serial #: E8** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.56 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.24 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.83 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.368 Liters
5. Port Interval:	137.50 ft bgs	11. Remaining Sample Volume:	4.36 Liters
6. Pump Depth:	125.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 53

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:19	0:14	0:16		
Start Time (24 hr)	7:53:30	8:18:30	8:38:00	9:00:00		
Stop Time (24 hr)	7:59:17	8:23:59	8:43:12	9:05:10		
Tot Purge Time (min)	5:47	5:29	5:12	5:10		
Temperature (°C)	11.34	10.81	11.55	11.20		
pH (S.U.)	7.50	7.66	7.62	7.60		
ORP	148	140	161	153		
Conductivity (mS/cm)	0.471	0.474	0.477	0.486		
Turbidity (NTU)	44.2	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	5.26	5.26	5.24	5.31		
Tot Vol Purged (L)		10.5	15.8	21.1		

SAMPLE TIME: Start_11:41_____ Stop_12:06___

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.32

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-7 Port 1

Date/Weather: 1/17/17 **Water Meter Serial #: PG** _____

Water FLUTe Information

1. Hole Depth:	151.00 ft bgs	7. Approx. Max Purge Volume:	3.75 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.00 Liters
3. Installation Date:		9. Sample Stroke:	3.05 Liters
4. Water Table	18.00 ft bgs	10. Minimum Recommended Discard:	0.228 Liters
5. Port Interval:	25-35 ft bgs	11. Remaining Sample Volume:	2.82 Liters
6. Pump Depth:	110.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 43

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:14	0:35		
Start Time (24 hr)	14:36:00	14:51:00	15:09:00	15:48:00		
Stop Time (24 hr)	14:40:10	14:54:38	15:12:36	15:51:31		
Tot Purge Time (min)	4:10	3:38	3:36	3:31		
Temperature (°C)	11.59	12.20	12.33	12.08		
pH (S.U.)	7.60	7.54	7.70	7.76		
ORP	128	99	113	125		
Conductivity (mS/cm)	0.330	0.306	0.339	0.353		
Turbidity (NTU)	41.1	23.1	7.7	3.1		
Dissolved O (mg/L)	0.00	1.01	1.32	0.00		
Volume Purged (L)	4.30	3.39	3.46	3.47		
Tot Vol Purged (L)		7.7	11.2	14.6		

SAMPLE TIME: Start_1421_____ Stop_1716____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): 0.28

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-7 Port 2

Date/Weather: 1/17/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	151.00 ft bgs	7. Approx. Max Purge Volume:	3.86 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.44 Liters
3. Installation Date:		9. Sample Stroke:	3.05 Liters
4. Water Table	18.00 ft bgs	10. Minimum Recommended Discard:	0.263 Liters
5. Port Interval:	45-55 ft bgs	11. Remaining Sample Volume:	2.78 Liters
6. Pump Depth:	111.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 43

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:40	30:22	21:03		
Start Time (24 hr)	14:36:00	14:51:00	15:23:20	15:48:00		
Stop Time (24 hr)	14:40:20	14:52:58	15:26:57	14:50:49		
Tot Purge Time (min)	4:20	1:58	3:34	3:00		
Temperature (°C)	12.83	12.26	12.77	12.27		
pH (S.U.)	7.54	7.58	7.65	7.74		
ORP	20	89	121	123		
Conductivity (mS/cm)	0.192	0.309	0.331	0.344		
Turbidity (NTU)	42.0	19.7	3.4	4.0		
Dissolved O (mg/L)	1.17	0.63	0.80	0.47		
Volume Purged (L)	4.33	1.46	3.26	2.47		
Tot Vol Purged (L)		5.8	9.1	11.5		

SAMPLE TIME: Start_1638 Stop_1728

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.12

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-7 Port 3

Date/Weather: 1/17/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	151.00 ft bgs	7. Approx. Max Purge Volume:	3.91 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.64 Liters
3. Installation Date:		9. Sample Stroke:	3.05 Liters
4. Water Table	18.00 ft bgs	10. Minimum Recommended Discard:	0.266 Liters
5. Port Interval:	65-75 ft bgs	11. Remaining Sample Volume:	2.78 Liters
6. Pump Depth:	112.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 43

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:34	14:08	35:08		
Start Time (24 hr)	14:36:00	14:51:00	15:09:00	15:48:00		
Stop Time (24 hr)	13:40:26	14:54:52	15:12:52	15:51:45		
Tot Purge Time (min)	4:26	3:52	3:52	3:45		
Temperature (°C)	11.03	11.81	11.59	12.20		
pH (S.U.)	7.69	7.30	7.69	7.77		
ORP	137	75	93	123		
Conductivity (mS/cm)	0.452	0.376	0.442	0.433		
Turbidity (NTU)	21.3	8.6	4.8	4.9		
Dissolved O (mg/L)	0.98	170.00	1.74	0.92		
Volume Purged (L)	4.29	3.48	3.51	3.46		
Tot Vol Purged (L)		7.8	11.3	14.7		

SAMPLE TIME: Start_1621 Stop_1716

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.15

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-7 Port 4

Date/Weather: 1/17/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	151.00 ft bgs	7. Approx. Max Purge Volume:	3.95 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.80 Liters
3. Installation Date:		9. Sample Stroke:	3.05 Liters
4. Water Table	18.00 ft bgs	10. Minimum Recommended Discard:	0.268 Liters
5. Port Interval:	100-110 ft bgs	11. Remaining Sample Volume:	2.78 Liters
6. Pump Depth:	113.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 43

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:26	14:00	10:06		
Start Time (24 hr)	14:36:00	14:51:00	15:09:00	15:23:00		
Stop Time (24 hr)	14:40:34	14:55:00	15:12:54	15:27:03		
Tot Purge Time (min)	4:34	4:00	3:54	4:03		
Temperature (°C)	12.31	12.24	12.34	12.11		
pH (S.U.)	7.59	7.45	7.68	7.64		
ORP	130	59	89	111		
Conductivity (mS/cm)	0.315	0.466	0.467	0.472		
Turbidity (NTU)	52.2	9.6	6.3	5.2		
Dissolved O (mg/L)	1.80	1.23	1.22	1.32		
Volume Purged (L)	4.52	3.52	3.58	3.59		
Tot Vol Purged (L)		8.0	11.6	15.2		

SAMPLE TIME: Start_1610 Stop_1710

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.32

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-7 Port 5

Date/Weather: 1/17/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	151.00 ft bgs	7. Approx. Max Purge Volume:	3.99 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.96 Liters
3. Installation Date:		9. Sample Stroke:	3.05 Liters
4. Water Table	18.00 ft bgs	10. Minimum Recommended Discard:	0.270 Liters
5. Port Interval:	130-140 ft bgs	11. Remaining Sample Volume:	2.78 Liters
6. Pump Depth:	114.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 43

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:21	13:59	10:04		
Start Time (24 hr)	14:36:00	14:51:00	15:09:00	15:23:00		
Stop Time (24 hr)	14:40:39	14:55:01	15:12:56	15:27:03		
Tot Purge Time (min)	4:39	4:01	3:56	4:03		
Temperature (°C)	11.08	12.59	12.65	12.39		
pH (S.U.)	7.67	7.45	7.63	7.65		
ORP	-5	-15	91	112		
Conductivity (mS/cm)	0.160	0.433	0.469	0.471		
Turbidity (NTU)	60.3	14.1	6.0	5.9		
Dissolved O (mg/L)	1.86	0.96	0.95	0.91		
Volume Purged (L)	4.40	3.42	3.58	3.65		
Tot Vol Purged (L)		7.8	11.4	15.1		

SAMPLE TIME: Start_1610 Stop_1704

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.32

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-8 Port 1

Date/Weather: 1/24/17 **Water Meter Serial #:** PG

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.24 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	20.96 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.59 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.321 Liters
5. Port Interval:	26.50 ft bgs	11. Remaining Sample Volume:	4.34 Liters
6. Pump Depth:	119.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:23	0:32			
Start Time (24 hr)	8:45:00	9:13:00	9:50:00	10:12:00		
Stop Time (24 hr)	8:49:40	9:17:25		10:16:16		
Tot Purge Time (min)	4:36	4:25		4:16		
Temperature (°C)	11.13	11.90	11.83	11.85		
pH (S.U.)	7.31	6.82	7.42	7.59		
ORP	99	174	171	173		
Conductivity (mS/cm)	0.259	0.576	0.659	0.676		
Turbidity (NTU)	69.8	18.3	10.8	0.0		
Dissolved O (mg/L)	3.85	1.94	1.42	1.66		
Volume Purged (L)	4.79	4.20	4.18	4.06		
Tot Vol Purged (L)		9.0	8.4	8.2		

SAMPLE TIME: Start_____ Stop_1140_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.15**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-8 Port 2

Date/Weather: 1/24/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.35 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.40 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.63 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.357 Liters
5. Port Interval:	40.50 ft bgs	11. Remaining Sample Volume:	4.30 Liters
6. Pump Depth:	120.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time						
Start Time (24 hr)	8:45:00					
Stop Time (24 hr)	8:50:00					
Tot Purge Time (min)	5:00					
Temperature (°C)	12.05					
pH (S.U.)	7.27					
ORP	99					
Conductivity (mS/cm)	0.009					
Turbidity (NTU)	68.5					
Dissolved O (mg/L)	0.00					
Volume Purged (L)	4.94					
Tot Vol Purged (L)						

SAMPLE TIME: Start Stop

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **N/A**

Analyses:

NOTES: No recovery. Did not sample

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-8 Port 3

Date/Weather: 1/24/17 **Water Meter Serial #: YK** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.56 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.67 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.359 Liters
5. Port Interval:	53.50 ft bgs	11. Remaining Sample Volume:	4.30 Liters
6. Pump Depth:	121.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:23	0:32			
Start Time (24 hr)	8:45:00	9:13:00	9:50:00	10:12:00		
Stop Time (24 hr)	8:49:30	9:17:18		10:16:10		
Tot Purge Time (min)	4:30	4:18				
Temperature (°C)	11.67	11.82	11.30	11.78		
pH (S.U.)	6.86	7.21	7.60	7.52		
ORP	16	111	114	118		
Conductivity (mS/cm)	0.749	0.731	0.739	0.740		
Turbidity (NTU)	134.0	69.3	6.1	7.1		
Dissolved O (mg/L)	3.55	3.71	3.29	3.87		
Volume Purged (L)	4.70	4.02	4.14	3.94		
Tot Vol Purged (L)		8.7	8.2	8.1		

SAMPLE TIME: Start_____ Stop_1134_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.15

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-8 Port 4

Date/Weather: 1/24/17 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.72 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.71 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.362 Liters
5. Port Interval:	61.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	122.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		23:20	38:51			
Start Time (24 hr)	8:45:00	9:13:00	9:56:00	12:12:00		
Stop Time (24 hr)	8:49:40	9:17:09		10:16:16		
Tot Purge Time (min)	0:04:40	0:04:09		0:04:16		
Temperature (°C)	12.18	12.26	12.08	12.02		
pH (S.U.)	7.05	7.20	7.39	7.40		
ORP	35	109	116	120		
Conductivity (mS/cm)	0.800	0.873	0.875	0.866		
Turbidity (NTU)	101.0	8.0	2.2	13.4		
Dissolved O (mg/L)	3.12	2.95	2.81	2.51		
Volume Purged (L)	4.87	4.16	4.13	4.06		
Tot Vol Purged (L)		9.0	8.3	8.2		

SAMPLE TIME: Start_____ Stop_1133_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.14

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-8 Port 5

Date/Weather: 1/24/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.48 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	21.92 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.75 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.364 Liters
5. Port Interval:	96.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	123.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		24:06	15:36	17:30		
Start Time (24 hr)	9:01:00	9:30:00	9:50:00	10:12:00		
Stop Time (24 hr)	9:05:54	9:34:24	9:54:30	10:16:33		
Tot Purge Time (min)	04:54	04:24	04:30	04:33		
Temperature (°C)	10.98	11.07	12.54	12.52		
pH (S.U.)	7.37	7.75	7.68	7.69		
ORP	27	98	109	108		
Conductivity (mS/cm)	0.366	0.392	0.411	0.420		
Turbidity (NTU)	16.1	7.0	8.4	17.7		
Dissolved O (mg/L)	4.11	3.94	3.82	3.51		
Volume Purged (L)	4.96	4.14	4.29	4.19		
Tot Vol Purged (L)		9.1	8.4	8.5		

SAMPLE TIME: Start_____ Stop_1139_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.23

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** ERT-8 Port 6

Date/Weather: 1/24/17 **Water Meter Serial #: PG** _____

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.52 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.08 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.79 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.366 Liters
5. Port Interval:	111.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	124.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		24:02	15:31	17:30		
Start Time (24 hr)	9:01:00	9:30:00	9:50:00	10:12:00		
Stop Time (24 hr)	9:05:58	9:34:29	9:54:30	10:16:32		
Tot Purge Time (min)	04:58	04:29	04:30	04:32		
Temperature (°C)	11.86	12.37	12.62	12.77		
pH (S.U.)	7.42	7.72	7.72	7.72		
ORP	24	47	104	108		
Conductivity (mS/cm)	0.382	0.409	0.407	0.405		
Turbidity (NTU)	12.1	1.6	16.1	22.2		
Dissolved O (mg/L)	3.55	3.53	3.82	5.67		
Volume Purged (L)	5.08	4.34	4.34	4.32		
Tot Vol Purged (L)		9.4	8.7	8.7		

SAMPLE TIME: Start_____ Stop_1147_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.24

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: ERT-8 Port 7

Date/Weather: 1/24/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	150.00 ft bgs	7. Approx. Max Purge Volume:	5.56 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	22.24 Liters
3. Installation Date:	2008-06-09	9. Sample Stroke:	4.83 Liters
4. Water Table	0.00 ft bgs	10. Minimum Recommended Discard:	0.368 Liters
5. Port Interval:	139.50 ft bgs	11. Remaining Sample Volume:	4.29 Liters
6. Pump Depth:	125.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 71 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		23:56	15:23	17:18		
Start Time (24 hr)	9:01:00	9:30:00	9:50:00	10:12:00		
Stop Time (24 hr)	9:06:04	9:34:37	9:54:42	10:16:44		
Tot Purge Time (min)	05:04	04:37	04:42	04:44		
Temperature (°C)	12.11	12.30	12.60	12.60		
pH (S.U.)	7.42	7.64	7.67	7.64		
ORP	35	97	105	110		
Conductivity (mS/cm)	0.175	0.462	0.487	0.476		
Turbidity (NTU)	28.4	25.9	20.4	31.7		
Dissolved O (mg/L)	4.47	4.53	4.05			
Volume Purged (L)	5.00	4.27	4.88	4.20		
Tot Vol Purged (L)		9.3	9.2	9.1		

SAMPLE TIME: Start_____ Stop_1149_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.25

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 1

Date/Weather: 1/3/17 **Water Meter Serial #: PB** _____

Water FLUTe Information

1. Hole Depth:	_____ ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:06	0:16	0:10		
Start Time (24 hr)	10:05:00	10:15:00	10:34:00	10:47:17		
Stop Time (24 hr)	10:08:22	10:17:32	10:37:06	10:50:13		
Tot Purge Time (min)	03:22	02:32	03:06	02:56		
Temperature (°C)	13.59	13.97	14.50	13.61		
pH (S.U.)	7.25	7.50	7.56	7.68		
ORP	-50	-46	-38	-29		
Conductivity (mS/cm)	0.371	0.352	0.502	0.527		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.25	0.22	2.94	2.71		
Tot Vol Purged (L)		3.5	6.4	9.1		

SAMPLE TIME: Start_1120_____ Stop_1155____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.16

Analyses: _____

_____

_____

NOTES: _____

_____

_____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 2

Date/Weather: 1/3/17 **Water Meter Serial #: EP** _____

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:06	0:16	0:10		
Start Time (24 hr)	10:05:00	10:15:00	10:34:00	10:47:17		
Stop Time (24 hr)	10:08:27	10:17:42	10:37:17	10:50:21		
Tot Purge Time (min)	03:27	02:42	03:17	03:04		
Temperature (°C)	14.03	13.36	14.05	13.65		
pH (S.U.)	7.56	7.65	7.61	7.64		
ORP	-30	-38	-19	5		
Conductivity (mS/cm)	0.707	0.734	0.755	0.763		
Turbidity (NTU)	2.7	1.7	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.30	2.36	3.03	2.86		
Tot Vol Purged (L)		5.7	8.7	11.6		

SAMPLE TIME: Start_1125_____ Stop_1155____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.28

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 3

Date/Weather: 1/3/17 **Water Meter Serial #:** PB

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:28	0:29	2:07		
Start Time (24 hr)	9:51:30	10:24:00	10:57:00	13:08:00		
Stop Time (24 hr)	9:55:03	10:27:22	11:00:30	13:11:29		
Tot Purge Time (min)	03:33	03:22	03:30	03:29		
Temperature (°C)	14.67	14.70	14.87	15.12		
pH (S.U.)	7.39	7.42	7.62	7.73		
ORP	19	-41	-3	27		
Conductivity (mS/cm)	0.413	0.430	0.436	0.422		
Turbidity (NTU)	8.5	1.6	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.45	3.42	3.43	3.48		
Tot Vol Purged (L)		6.9	10.3	13.8		

SAMPLE TIME: Start_1330_____ Stop_1405____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.12**

Analyses: _____

NOTES: Odor _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 4

Date/Weather: 1/3/17 **Water Meter Serial #: EP** _____

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:29	0:29	2:07		
Start Time (24 hr)	9:51:30	10:24:00	10:57:00	13:08:00		
Stop Time (24 hr)	9:54:57	10:27:26	11:00:20	13:11:34		
Tot Purge Time (min)	03:27	03:26	03:20	03:34		
Temperature (°C)	14.14	14.16	14.56	14.37		
pH (S.U.)	7.17	7.86	7.88	7.95		
ORP	-33	-33	11	57		
Conductivity (mS/cm)	0.426	0.501	0.473	0.479		
Turbidity (NTU)	6.0	4.9	2.2	0.0		
Dissolved O (mg/L)	14.14	14.16	14.56	14.37		
Volume Purged (L)	3.45	3.47	3.38	3.45		
Tot Vol Purged (L)		6.9	10.3	13.7		

SAMPLE TIME: Start_1335_____ Stop_1405____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.12

Analyses: _____

NOTES: Odor (purge 1) _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 5

Date/Weather: 1/3/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:03	0:09	0:16		
Start Time (24 hr)	15:42:00	15:49:00	16:00:30	16:20:00		
Stop Time (24 hr)	15:45:34	15:51:11	16:03:48	16:23:04		
Tot Purge Time (min)	03:34	02:11	03:18	03:04		
Temperature (°C)	14.04	13.74	13.52	13.52		
pH (S.U.)	7.72	7.94	8.05	8.01		
ORP	-20	-38	-60	-89		
Conductivity (mS/cm)	0.396	0.394	0.396	0.386		
Turbidity (NTU)	1.3	1.2	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.02	1.80	3.25	3.53		
Tot Vol Purged (L)		4.8	8.1	11.6		

SAMPLE TIME: Start_1635_____ Stop_1506____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.36**

Analyses: _____

NOTES: Odor (purge 1) _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 6

Date/Weather: 1/4/17 **Water Meter Serial #:** E80FNPA6

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:07	0:09	0:09		
Start Time (24 hr)	14:38:30	14:49:30	15:02:00	15:15:00		
Stop Time (24 hr)	14:42:05	14:52:36	15:05:15	15:18:16		
Tot Purge Time (min)	03:35	03:06	03:15	03:16		
Temperature (°C)	14.92	14.40	14.59	14.40		
pH (S.U.)	7.74	7.97	7.95	7.89		
ORP	0:00	-27	-37	20		
Conductivity (mS/cm)	0.416	0.424	0.420	0.419		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.45	2.90	3.17	3.17		
Tot Vol Purged (L)		6.3	9.5	12.7		

SAMPLE TIME: Start_1530_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.35**

Analyses: _____

NOTES: Odor (purge 1)_____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: FPW Port 7

Date/Weather: 1/3/17 **Water Meter Serial #: PB**

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:28	0:29	2:06		
Start Time (24 hr)	9:51:30	10:24:00	10:57:00	13:08:00		
Stop Time (24 hr)	9:55:47	10:27:50	11:01:25	13:14:45		
Tot Purge Time (min)	04:17	03:50	04:25	06:45		
Temperature (°C)	14.30	12.84	14.08	14.36		
pH (S.U.)	7.66	7.70	7.89	8.05		
ORP	5	-30	-6	21		
Conductivity (mS/cm)	0.418	0.354	0.356	0.348		
Turbidity (NTU)	0.8	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.67	3.60	2.40	2.94		
Tot Vol Purged (L)		7.3	9.7	12.6		

SAMPLE TIME: Start_1420 Stop_1450

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.10

Analyses:

NOTES: Odor (purge 1)

Duplicate sample collected for VOCs

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 8

Date/Weather: 1/3/17 **Water Meter Serial #: E**_____

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:28	0:28	2:07		
Start Time (24 hr)	9:51:00	10:24:00	10:57:00	13:08:00		
Stop Time (24 hr)	9:55:30	10:28:02	11:00:50	13:12:01		
Tot Purge Time (min)	04:30	04:02	03:50	04:01		
Temperature (°C)	14.02	13.58	13.74	13.49		
pH (S.U.)	7.24	7.95	7.95	8.05		
ORP	127	22	32	85		
Conductivity (mS/cm)	0.415	0.497	0.496	0.488		
Turbidity (NTU)	0.0	4.7	0.0	0.0		
Dissolved O (mg/L)	0.00	0.54	0.00	0.00		
Volume Purged (L)	3.55	2.46	3.55	3.65		
Tot Vol Purged (L)		6.0	9.6	13.2		

SAMPLE TIME: Start_1425_____ Stop_1410____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.10

Analyses: _____

_____

_____

NOTES: Odor (purge 1)_____

_____

_____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** FPW Port 9

Date/Weather: 1/3/17 **Water Meter Serial #: YAK** _____

Water FLUTe Information

1. Hole Depth:	316.00 ft bgs	7. Approx. Max Purge Volume:	_____ Liters
2. Hole Diameter:	_____ in	8. Approx. 4x Purge Volume	_____ Liters
3. Installation Date:	_____	9. Sample Stroke:	_____ Liters
4. Water Table	_____ ft bgs	10. Minimum Recommended Discard:	_____ Liters
5. Port Interval:	_____ ft bgs	11. Remaining Sample Volume:	_____ Liters
6. Pump Depth:	_____ ft bgs	12. Initial Port Depth to Water	_____ ft bgs

Water Quality Readings

Recommended **PURGE** PSI 54 Recommended **SAMPLING** PSI 37

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:03	0:09	0:09		
Start Time (24 hr)	15:42:00	15:49:00	16:00:30	16:14:00		
Stop Time (24 hr)	15:45:47	15:51:29	16:04:04	16:17:36		
Tot Purge Time (min)	03:47	02:29	03:34	03:36		
Temperature (°C)	13.74	13.71	13.77	13.47		
pH (S.U.)	7.92	7.99	8.13	8.13		
ORP	0	60	83	101		
Conductivity (mS/cm)	0.488	0.482	0.488	0.486		
Turbidity (NTU)	1.3	0.8	0.0	0.0		
Dissolved O (mg/L)	0.28	0.00	0.00	0.00		
Volume Purged (L)	3.65	2.00	3.40	3.38		
Tot Vol Purged (L)		5.7	9.1	12.4		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.45

Analyses: _____

_____

_____

NOTES: Odor_____

MS/MSD Sample collected for VOC_____

_____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-13 Port 1

Date/Weather: 1/6/17 **Water Meter Serial #:** PB

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.58 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.32 Liters
3. Installation Date:		9. Sample Stroke:	3.02 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.219 Liters
5. Port Interval:	18-28 ft bgs	11. Remaining Sample Volume:	2.81 Liters
6. Pump Depth:	92.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:14	14:33	14:46		
Start Time (24 hr)	8:06:00	8:17:30	8:34:00	8:51:00		
Stop Time (24 hr)	8:08:16	8:19:27	8:36:14	8:58:38		
Tot Purge Time (min)	02:16	01:57	02:14	07:38		
Temperature (°C)	13.20	13.05	12.09	12.62		
pH (S.U.)	7.82	9.36	10.12	10.34		
ORP	-50	32	65	64		
Conductivity (mS/cm)	0.307	0.248	0.375	0.445		
Turbidity (NTU)	57.9	92.3	56.5	16.2		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	2.70	1.90	2.37	2.41		
Tot Vol Purged (L)		4.6	7.0	9.4		

SAMPLE TIME: Start 0925 Stop 1016

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.18**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-13 Port 2

Date/Weather: 1/6/17 **Water Meter Serial #: E8**

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.69 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.76 Liters
3. Installation Date:		9. Sample Stroke:	3.02 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	35-45 ft bgs	11. Remaining Sample Volume:	2.77 Liters
6. Pump Depth:	93.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		08:51	14:30	14:39		
Start Time (24 hr)	8:06:00	8:17:30	8:34:00	8:51:00		
Stop Time (24 hr)	8:08:39	8:19:30	8:36:21	8:53:43		
Tot Purge Time (min)	02:39	02:00	02:21	02:43		
Temperature (°C)	12.37	11.44	12.54	12.42		
pH (S.U.)	6.87	7.74	7.96	7.99		
ORP	282	-103	-52	-5		
Conductivity (mS/cm)	0.185	0.430	0.466	0.569		
Turbidity (NTU)	86.5	14.6	27.4	16.1		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.05	2.21	2.55	2.57		
Tot Vol Purged (L)		5.3	7.8	10.4		

SAMPLE TIME: Start_0930 Stop_1021

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.20

Analyses:

NOTES: Sulfur odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-13 Port 3

Date/Weather: 1/6/17 **Water Meter Serial #:** PB

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.73 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.92 Liters
3. Installation Date:		9. Sample Stroke:	3.02 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	63-73 ft bgs	11. Remaining Sample Volume:	2.77 Liters
6. Pump Depth:	94.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:06	14:30	14:28		
Start Time (24 hr)	8:06:00	8:17:30	8:34:00	8:51:00		
Stop Time (24 hr)	8:08:24	8:19:30	8:36:32	8:53:30		
Tot Purge Time (min)	02:24	02:00	02:32	02:30		
Temperature (°C)	13.26	13.67	12.63	12.96		
pH (S.U.)	7.42	7.80	8.94	8.85		
ORP	-65	31	77	72		
Conductivity (mS/cm)	0.331	0.390	0.396	0.411		
Turbidity (NTU)	18.7	3.0	2.9	1.3		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	2.93	2.27	2.76	2.77		
Tot Vol Purged (L)		5.2	8.0	10.7		

SAMPLE TIME: Start_0915 Stop_1006

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.21**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-13 Port 4

Date/Weather: 1/6/17 **Water Meter Serial #: E8**

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.78 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.12 Liters
3. Installation Date:		9. Sample Stroke:	3.78 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.259 Liters
5. Port Interval:	95-105 ft bgs	11. Remaining Sample Volume:	2.77 Liters
6. Pump Depth:	95.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		08:59	13:58	14:29		
Start Time (24 hr)	8:06:00	8:17:30	8:34:00	8:51:00		
Stop Time (24 hr)	8:08:31	8:20:02	8:36:31	8:53:44		
Tot Purge Time (min)	02:31	02:32	02:31	02:44		
Temperature (°C)	12.77	12.61	12.48	12.80		
pH (S.U.)	6.80	7.56	7.83	7.86		
ORP	-11	-54	-62	-49		
Conductivity (mS/cm)	0.416	0.462	0.476	0.478		
Turbidity (NTU)	17.6	3.6	1.7	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	2.84	2.64	2.84	2.83		
Tot Vol Purged (L)		5.5	8.3	11.2		

SAMPLE TIME: Start_0920_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.23**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-13 Port 5

Date/Weather: 1/6/17 **Water Meter Serial #: PB** _____

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.82 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.28 Liters
3. Installation Date:		9. Sample Stroke:	3.02 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.261 Liters
5. Port Interval:	115-125 ft bgs	11. Remaining Sample Volume:	2.76 Liters
6. Pump Depth:	96.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		15:17	11:14	23:18		
Start Time (24 hr)	10:52:00	11:10:00	11:24:00	11:50:00		
Stop Time (24 hr)	10:54:43	11:12:46	11:26:42	11:52:00		
Tot Purge Time (min)	02:43	02:46	02:42	02:00		
Temperature (°C)	12.93	11.76	12.61	12.58		
pH (S.U.)	7.93	7.68	7.82	7.95		
ORP	-32	97	101	129		
Conductivity (mS/cm)	0.192	0.214	0.356	0.371		
Turbidity (NTU)	48.5	3.7	3.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	2.95	3.01	2.85	3.01		
Tot Vol Purged (L)		6.0	8.8	11.8		

SAMPLE TIME: Start_1205_____ Stop_1259____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): **0.19**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-13 Port 6

Date/Weather: 1/6/17 **Water Meter Serial #: E8**

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.86 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.44 Liters
3. Installation Date:		9. Sample Stroke:	3.02 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.263 Liters
5. Port Interval:	150-160 ft bgs	11. Remaining Sample Volume:	2.76 Liters
6. Pump Depth:	97.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		15:04	11:15	23:14		
Start Time (24 hr)	10:52:00	11:10:00	11:24:00	11:50:00		
Stop Time (24 hr)	10:54:56	11:12:45	11:26:46	11:52:50		
Tot Purge Time (min)	02:56	02:45	02:46	02:50		
Temperature (°C)	12.25	12.25	11.87	12.46		
pH (S.U.)	7.87	7.87	7.93	7.97		
ORP	-29	6	24	59		
Conductivity (mS/cm)	0.205	0.391	0.474	0.478		
Turbidity (NTU)	72.5	28.4	6.1	0.0		
Dissolved O (mg/L)	0.32	0.00	0.00	0.00		
Volume Purged (L)	3.03	3.01	3.00	3.07		
Tot Vol Purged (L)		6.0	9.0	12.1		

SAMPLE TIME: Start_1210 Stop_1259

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.20**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-13 Port 7

Date/Weather: 1/6/17 **Water Meter Serial #: E8**

Water FLUTe Information

1. Hole Depth:	253.00 ft bgs	7. Approx. Max Purge Volume:	3.91 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.64 Liters
3. Installation Date:		9. Sample Stroke:	3.02 Liters
4. Water Table	4.00 ft bgs	10. Minimum Recommended Discard:	0.266 Liters
5. Port Interval:	230-240 ft bgs	11. Remaining Sample Volume:	2.76 Liters
6. Pump Depth:	98.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		15:00	11:01	11:10		
Start Time (24 hr)	10:52:00	11:10:00	11:24:00	11:38:00		
Stop Time (24 hr)	10:55:00	11:12:59	11:26:50	11:40:47		
Tot Purge Time (min)	03:00	02:59	02:50	02:47		
Temperature (°C)	12.79	12.40	12.40	12.31		
pH (S.U.)	7.45	7.64	7.74	7.84		
ORP	-49	-8	4	51		
Conductivity (mS/cm)	0.605	0.616	0.598	0.612		
Turbidity (NTU)	6.8	3.8	2.7	2.9		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.21	3.16	2.97	2.95		
Tot Vol Purged (L)		6.4	9.3	12.3		

SAMPLE TIME: Start_1215 Stop_1253

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.25**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14D Port 1

Date/Weather: 12/27/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	233.00 ft bgs	7. Approx. Max Purge Volume:	3.88 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.52 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.30 ft bgs	10. Minimum Recommended Discard:	0.234 Liters
5. Port Interval:	80-85 ft bgs	11. Remaining Sample Volume:	2.96 Liters
6. Pump Depth:	108.30 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		12:55	17:28	15:30	15:26	
Start Time (24 hr)	14:14:00	14:31:00	14:52:00	15:11:00	15:30:00	
Stop Time (24 hr)	14:18:05	14:34:32	14:55:30	15:14:34	15:33:34	
Tot Purge Time (min)	04:05	03:32	03:30	03:34	03:34	
Temperature (°C)	14.60	14.23	14.00	14.23	14.14	
pH (S.U.)	7.66	7.64	7.61	7.53	7.49	
ORP	-38	-50	-43	-26	-22	
Conductivity (mS/cm)	0.619	0.669	0.739	0.753	0.746	
Turbidity (NTU)	2.5	7.6	5.3	4.2	2.8	
Dissolved O (mg/L)	3.23	2.40	2.18	2.24	6.26	
Volume Purged (L)	3.80	3.18	3.56	3.41	3.42	
Tot Vol Purged (L)		7.0	10.5	13.9	17.4	

SAMPLE TIME: Start 1555 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.22

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14D Port 2

Date/Weather: 12/27/16 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	233.00 ft bgs	7. Approx. Max Purge Volume:	3.99 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.96 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.30 ft bgs	10. Minimum Recommended Discard:	0.270 Liters
5. Port Interval:	123-133 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	109.30 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		12:40	17:13	16:00	15:11	
Start Time (24 hr)	14:14:00	14:31:00	14:52:00	15:12:00	15:30:00	
Stop Time (24 hr)	14:18:20	14:34:47	14:56:00	15:14:49	15:33:43	
Tot Purge Time (min)	04:20	03:47	04:00	02:49	03:43	
Temperature (°C)	15.01	14.47	14.46	14.23	14.10	
pH (S.U.)	6.09	6.06	6.20	6.36	6.43	
ORP	0	19	82	78	87	
Conductivity (mS/cm)	0.622	0.524	0.574	0.566	0.565	
Turbidity (NTU)	15.0	6.2	7.5	7.1	5.3	
Dissolved O (mg/L)	8.39	0.00	1.75	0.00	5.28	
Volume Purged (L)	4.26	3.55	3.68	3.58	3.51	
Tot Vol Purged (L)		7.8	11.5	15.1	18.6	

SAMPLE TIME: Start 1555 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.24**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14D Port 3

Date/Weather: 12/27/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	233.00 ft bgs	7. Approx. Max Purge Volume:	4.04 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.16 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.30 ft bgs	10. Minimum Recommended Discard:	0.272 Liters
5. Port Interval:	199-209 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	110.30 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:37	17:05	15:10	15:11	
Start Time (24 hr)	14:16:30	14:31:00	14:52:00	15:11:00	15:30:00	
Stop Time (24 hr)	14:20:23	14:34:55	14:55:50	15:14:49	15:33:49	
Tot Purge Time (min)	03:53	03:55	03:50	03:49	03:49	
Temperature (°C)	14.82	14.36	14.16	14.29	14.26	
pH (S.U.)	7.71	7.65	7.72	7.61	7.61	
ORP	-71	-44	-11	-3	-3	
Conductivity (mS/cm)	0.615	0.615	0.571	0.561	0.569	
Turbidity (NTU)	2.5	1.7	0.9	0.1	0.0	
Dissolved O (mg/L)	0.71	1.68	0.62	7.21	2.65	
Volume Purged (L)	3.71	3.74	3.80	3.69	3.60	
Tot Vol Purged (L)		7.5	11.3	14.9	18.5	

SAMPLE TIME: Start 1555 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.26

Analyses:

NOTES: Sheen observed in purge water

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14D Port 1

Date/Weather: 1/4/17 **Water Meter Serial #:** PBT0B379

Water FLUTe Information

1. Hole Depth:	233.00 ft bgs	7. Approx. Max Purge Volume:	3.88 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.52 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.30 ft bgs	10. Minimum Recommended Discard:	0.234 Liters
5. Port Interval:	80-85 ft bgs	11. Remaining Sample Volume:	2.96 Liters
6. Pump Depth:	108.30 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		07:23	16:40			
Start Time (24 hr)	8:48:00	8:59:00	9:18:30			
Stop Time (24 hr)	8:51:37	9:01:50	9:21:58			
Tot Purge Time (min)	03:37	02:50	03:28			
Temperature (°C)	13.51	13.66	12.99			
pH (S.U.)	7.19	7.50	7.53			
ORP	252	-74	-43			
Conductivity (mS/cm)	0.660	0.617	0.616			
Turbidity (NTU)	2.1	4.2	3.5			
Dissolved O (mg/L)	0.00	0.00	0.00			
Volume Purged (L)	3.73	2.59	3.47			
Tot Vol Purged (L)		6.3	9.8			

SAMPLE TIME: Start 1555 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.28**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14D Port 2

Date/Weather: 1/4/17 **Water Meter Serial #:** E80FNPA6

Water FLUTe Information

1. Hole Depth:	233.00 ft bgs	7. Approx. Max Purge Volume:	3.99 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.96 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.30 ft bgs	10. Minimum Recommended Discard:	0.270 Liters
5. Port Interval:	123-133 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	109.30 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		07:21	16:23			
Start Time (24 hr)	8:48:00	8:59:00	9:18:30			
Stop Time (24 hr)	8:51:39	9:02:07	9:22:11			
Tot Purge Time (min)	03:39	03:07	03:41			
Temperature (°C)	13.11	13.22	13.27			
pH (S.U.)	7.15	7.57	7.58			
ORP	181	34	0			
Conductivity (mS/cm)	0.567	0.554	0.550			
Turbidity (NTU)	1.7	2.8	1.9			
Dissolved O (mg/L)	0.00	0.00	0.00			
Volume Purged (L)	3.63	2.60	3.60			
Tot Vol Purged (L)		6.2	9.8			

SAMPLE TIME: Start 1555 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.29

Analyses:

NOTES: NAPL observed in 2nd purge (~3 pea-sized beads)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14D Port 3

Date/Weather: 1/4/17 **Water Meter Serial #:** E80FNPA6

Water FLUTe Information

1. Hole Depth:	233.00 ft bgs	7. Approx. Max Purge Volume:	4.04 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.16 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.30 ft bgs	10. Minimum Recommended Discard:	0.272 Liters
5. Port Interval:	199-209 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	110.30 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 42

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		07:16	07:20			
Start Time (24 hr)	10:30:00	10:41:00	10:52:00			
Stop Time (24 hr)	10:33:44	10:44:40	10:55:40			
Tot Purge Time (min)	03:44	03:40	03:40			
Temperature (°C)						
pH (S.U.)						
ORP						
Conductivity (mS/cm)						
Turbidity (NTU)						
Dissolved O (mg/L)						
Volume Purged (L)	3.50	3.45	3.45			
Tot Vol Purged (L)		7.0	10.4			

SAMPLE TIME: Start 1555 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.47

Analyses:

NOTES: NAPL, sheen and odor observed. No water quality readings taken.

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14S Port 1

Date/Weather: 12-27-16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	70.00 ft bgs	7. Approx. Max Purge Volume:	1.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	5.56 Liters
3. Installation Date:		9. Sample Stroke:	1.16 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.105 Liters
5. Port Interval:	30-40 ft bgs	11. Remaining Sample Volume:	1.06 Liters
6. Pump Depth:	52.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 34 Recommended **SAMPLING** PSI 20

Parameter \ Purge Vol.	1	2	3	4	5	6	Notes
Recovery Time		08:58	19:23	34:18	38:18	1:00:53	
Start Time (24 hr)	8:30:30	8:41:00	9:01:00	9:36:00	10:15:00	11:17:00	
Stop Time (24 hr)	8:32:02	8:41:37	9:01:42	9:36:42	10:16:07	11:17:57	
Tot Purge Time (min)	01:32	00:37	00:42	00:42	01:07	00:57	
Temperature (°C)	14.48	14.35	14.49	14.77	15.04	14.74	
pH (S.U.)	8.40	8.08	7.96	7.58	7.45	7.54	
ORP	45	4	20	43	-5	37	
Conductivity (mS/cm)	0.811	0.724	0.738	0.796	0.832	0.840	
Turbidity (NTU)	7.4	15.7	6.9	8.5	2.7	4.5	
Dissolved O (mg/L)	5.73	7.03	1.82	1.19	0.77	1.23	
Volume Purged (L)	1.77	0.42	0.59	0.90	0.94	0.99	
Tot Vol Purged (L)		2.2	2.8	3.7	4.6	5.6	

SAMPLE TIME: Start 1201 Stop

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.03

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14S Port 2

Date/Weather: 12-27-16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	70.00 ft bgs	7. Approx. Max Purge Volume:	1.50 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	6.00 Liters
3. Installation Date:		9. Sample Stroke:	1.16 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.141 Liters
5. Port Interval:	41-46 ft bgs	11. Remaining Sample Volume:	1.02 Liters
6. Pump Depth:	53.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 34 Recommended **SAMPLING** PSI 20

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		08:58	10:57	15:54	11:53	
Start Time (24 hr)	8:30:30	8:41:00	8:53:00	9:10:00	9:23:00	
Stop Time (24 hr)	8:32:02	8:42:03	8:54:06	9:11:07	9:24:09	
Tot Purge Time (min)	01:32	01:03	01:06	01:07	01:09	
Temperature (°C)	14.41	14.10	14.57	14.63	14.65	
pH (S.U.)	6.85	6.81	7.20	7.35	7.45	
ORP	284	231	178	145	126	
Conductivity (mS/cm)	0.379	0.728	0.759	0.770	0.766	
Turbidity (NTU)	7.2	16.0	18.2	24.2	6.0	
Dissolved O (mg/L)	0.17	1.25	0.00	5.31	1.04	
Volume Purged (L)	1.76	1.10	1.13	1.17	1.16	
Tot Vol Purged (L)		2.9	4.0	5.2	6.3	

SAMPLE TIME: Start 1027 Stop 1313

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.10

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-14S Port 3

Date/Weather: 12-27-16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	70.00 ft bgs	7. Approx. Max Purge Volume:	1.54 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	6.16 Liters
3. Installation Date:		9. Sample Stroke:	1.16 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.143 Liters
5. Port Interval:	55-60 ft bgs	11. Remaining Sample Volume:	1.02 Liters
6. Pump Depth:	54.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 34 Recommended **SAMPLING** PSI 20

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:26	11:49	12:49	12:53	
Start Time (24 hr)	9:10:00	9:23:00	9:36:00	9:50:00	10:04:00	
Stop Time (24 hr)	9:11:34	9:24:11	9:37:11	9:51:07	10:05:09	
Tot Purge Time (min)	01:34	01:11	01:11	01:07	01:09	
Temperature (°C)	14.85	14.62	14.92	14.96	14.84	
pH (S.U.)	8.23	7.76	7.61	7.61	7.65	
ORP	139	188	41	113	112	
Conductivity (mS/cm)	0.184	0.675	0.776	0.776	0.764	
Turbidity (NTU)	22.3	19.0	11.7	3.5	4.0	
Dissolved O (mg/L)	2.86	1.78	1.00	0.59	0.63	
Volume Purged (L)	1.88	1.22	1.22	1.22	1.23	
Tot Vol Purged (L)		3.1	4.3	5.5	6.8	

SAMPLE TIME: Start 1033 Stop 1303

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.10

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-14S Port 4

Date/Weather: 12-27-16 **Water Meter Serial #:** EF9F02DM _____

Water FLUTe Information

1. Hole Depth:	70.00 ft bgs	7. Approx. Max Purge Volume:	1.58 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	6.32 Liters
3. Installation Date:		9. Sample Stroke:	1.16 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.145 Liters
5. Port Interval:	65-70 ft bgs	11. Remaining Sample Volume:	1.02 Liters
6. Pump Depth:	55.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 34 Recommended **SAMPLING** PSI 20

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time						
Start Time (24 hr)						
Stop Time (24 hr)						
Tot Purge Time (min)						
Temperature (°C)						
pH (S.U.)						
ORP						
Conductivity (mS/cm)						
Turbidity (NTU)						
Dissolved O (mg/L)						
Volume Purged (L)						
Tot Vol Purged (L)						

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.
Other _____

Estimated Recovery Rate (L/MIN): N/A

Analyses: _____

NOTES: Did not sample due to free product in purge water. Product was sampled.

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-15D Port 1

Date/Weather: 1/3/17 **Water Meter Serial #:** PBT0B379

Water FLUTe Information

1. Hole Depth:	224.00 ft bgs	7. Approx. Max Purge Volume:	3.97 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.88 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.239 Liters
5. Port Interval:	125-135 ft bgs	11. Remaining Sample Volume:	3.01 Liters
6. Pump Depth:	112.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		05:31	07:11	05:10		
Start Time (24 hr)	7:51:00	8:00:30	8:10:00	8:19:00		
Stop Time (24 hr)	7:54:59	8:02:49	8:13:50	8:22:22		
Tot Purge Time (min)	03:59	02:19	03:50	03:22		
Temperature (°C)	13.73	12.46	13.26	12.90		
pH (S.U.)	7.05	7.37	7.37	7.39		
ORP	324	270	178	181		
Conductivity (mS/cm)	0.483	0.460	0.382	0.383		
Turbidity (NTU)	1.2	0.5	1.1	0.0		
Dissolved O (mg/L)	1.72	0.00	0.00	0.00		
Volume Purged (L)	4.16	2.91	3.28	3.16		
Tot Vol Purged (L)		7.1	10.4	13.5		

SAMPLE TIME: Start 0830 Stop 0901

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.53**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-15D Port 2

Date/Weather: 1/3/17 **Water Meter Serial #:** E80FNPA6

Water FLUTe Information

1. Hole Depth:	224.00 ft bgs	7. Approx. Max Purge Volume:	4.08 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.32 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.275 Liters
5. Port Interval:	185-195 ft bgs	11. Remaining Sample Volume:	2.97 Liters
6. Pump Depth:	113.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		05:25	05:40	05:31		
Start Time (24 hr)	7:51:00	8:00:30	8:10:00	8:19:00		
Stop Time (24 hr)	7:55:05	8:04:20	8:13:29	8:22:45		
Tot Purge Time (min)	04:05	03:50	03:29	03:45		
Temperature (°C)	13.90	13.50	12.04	12.54		
pH (S.U.)	7.09	7.28	7.33	7.31		
ORP	215	196	213	192		
Conductivity (mS/cm)	0.408	0.400	0.480	0.478		
Turbidity (NTU)	0.5	0.0	5.7	3.0		
Dissolved O (mg/L)	3.17	0.00	0.00	0.00		
Volume Purged (L)	3.66	3.38	3.46	3.29		
Tot Vol Purged (L)		7.0	10.5	13.8		

SAMPLE TIME: Start 0830 Stop 0901

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.61**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-15S Port 1

Date/Weather: 12/22/16 **Water Meter Serial #:** R6L4NNXO

Water FLUTe Information

1. Hole Depth:	99.00 ft bgs	7. Approx. Max Purge Volume:	2.81 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	11.24 Liters
3. Installation Date:		9. Sample Stroke:	2.31 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.179 Liters
5. Port Interval:	30-40 ft bgs	11. Remaining Sample Volume:	2.13 Liters
6. Pump Depth:	85.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 47 Recommended **SAMPLING** PSI 33

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:00	05:30	07:33		
Start Time (24 hr)	15:01:00	15:14:00	15:22:00	15:32:00		
Stop Time (24 hr)	15:05:00	15:16:30	15:24:27	15:34:40		
Tot Purge Time (min)	04:00	02:30	02:27	02:40		
Temperature (°C)	14.32	14.03	13.37	13.75		
pH (S.U.)	8.96	8.19	8.16	7.84		
ORP	86	108	130	151		
Conductivity (mS/cm)	0.912	0.961	0.961	0.937		
Turbidity (NTU)	19.3	12.4	6.7	1.5		
Dissolved O (mg/L)	1.22	0.83	1.91	1.62		
Volume Purged (L)	2.58	2.43	2.53	2.50		
Tot Vol Purged (L)		5.0	7.5	10.0		

SAMPLE TIME: Start 1535 Stop

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.36**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-15S Port 2

Date/Weather: 12/22/16 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	99.00 ft bgs	7. Approx. Max Purge Volume:	2.92 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	11.68 Liters
3. Installation Date:		9. Sample Stroke:	2.31 Liters
4. Water Table	15.00 ft bgs	10. Minimum Recommended Discard:	0.214 Liters
5. Port Interval:	70-80 ft bgs	11. Remaining Sample Volume:	2.09 Liters
6. Pump Depth:	86.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 47 Recommended **SAMPLING** PSI 33

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:00	05:30	08:23		
Start Time (24 hr)	15:01:00	15:14:00	15:22:00	15:32:40		
Stop Time (24 hr)	15:05:00	15:16:30	15:24:17	15:34:40		
Tot Purge Time (min)	04:00	02:30	02:17	02:00		
Temperature (°C)	14.69	13.05	13.63	14.00		
pH (S.U.)	7.36	7.49	7.50	7.21		
ORP	138	131	131	147		
Conductivity (mS/cm)	0.689	0.684	0.609	0.573		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	4.52	0.00	0.00	0.00		
Volume Purged (L)	2.52	2.42	2.48	2.53		
Tot Vol Purged (L)		4.9	7.4	10.0		

SAMPLE TIME: Start 1535 Stop _____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.36**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-16 Port 1

Date/Weather: 12/28/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.58 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.32 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.219 Liters
5. Port Interval:	20-30 ft bgs	11. Remaining Sample Volume:	2.76 Liters
6. Pump Depth:	97.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:19	11:06	11:41	08:44	
Start Time (24 hr)	14:33:33	14:46:00	15:01:00	15:15:15	15:26:20	
Stop Time (24 hr)	14:36:41	14:49:54	15:03:34	15:17:36	15:28:40	
Tot Purge Time (min)	03:08	03:54	02:34	02:21	02:20	
Temperature (°C)	14.02	13.77	14.08	14.44	14.19	
pH (S.U.)	6.38	6.72	7.17	7.26	7.67	
ORP	-86	9	26	21	3	
Conductivity (mS/cm)	0.468	0.580	0.545	0.540	0.531	
Turbidity (NTU)	13.1	17.5	13.9	17.2	36.2	
Dissolved O (mg/L)	7.16	7.45	7.05	0.00	2.78	
Volume Purged (L)	3.68	2.80	2.75	2.80	2.48	
Tot Vol Purged (L)		6.5	9.2	12.0	14.5	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.27

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-16 Port 2

Date/Weather: 12/28/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.69 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.76 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	40-50 ft bgs	11. Remaining Sample Volume:	2.73 Liters
6. Pump Depth:	98.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		12:24	##########	08:11	05:22	
Start Time (24 hr)	12:57:05	13:12:30	13:24:06	13:35:11	13:43:22	
Stop Time (24 hr)	13:00:06	15:15:34	13:27:00	13:38:00	13:45:55	
Tot Purge Time (min)	03:01	03:04	02:54	02:49	02:33	
Temperature (°C)	13.89	13.00	14.33	14.33	14.40	
pH (S.U.)	6.85	4.89	7.57	6.10	7.06	
ORP	-60	95	42	142	130	
Conductivity (mS/cm)	0.420	0.001	0.477	0.472	0.466	
Turbidity (NTU)	20.8	253.0	14.5	9.5	10.6	
Dissolved O (mg/L)	6.61	8.29	0.00	6.46	4.00	
Volume Purged (L)	3.69	3.13	2.86	2.85	2.46	
Tot Vol Purged (L)		6.8	9.7	12.5	15.0	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.26

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-16 Port 3

Date/Weather: 12/28/16 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.73 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.92 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	85-95 ft bgs	11. Remaining Sample Volume:	2.73 Liters
6. Pump Depth:	99.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:31	07:22	07:38	07:39	
Start Time (24 hr)	12:52:00	13:07:00	13:17:30	13:28:00	13:38:30	
Stop Time (24 hr)	12:55:29	13:10:08	13:20:22	13:30:51	13:41:20	
Tot Purge Time (min)	03:29	03:08	02:52	02:51	02:50	
Temperature (°C)	15.25	14.47	14.48	14.09	13.98	
pH (S.U.)	7.22	7.91	7.89	7.90	7.91	
ORP	47	124	129	136	144	
Conductivity (mS/cm)	0.631	0.471	0.472	0.476	0.474	
Turbidity (NTU)	4.6	0.6	0.0	0.0	0.0	
Dissolved O (mg/L)	0.61	6.80	0.00	0.00	0.00	
Volume Purged (L)	3.80	3.20	3.28	2.84	2.84	
Tot Vol Purged (L)		7.0	10.3	13.1	16.0	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.37**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-16 Port 4

Date/Weather: 12/28/16 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.78 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.12 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.259 Liters
5. Port Interval:	108-118 ft bgs	11. Remaining Sample Volume:	2.72 Liters
6. Pump Depth:	100.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:25	11:54	10:24	10:00	
Start Time (24 hr)	10:14:30	10:28:30	10:43:30	10:57:00	11:10:05	
Stop Time (24 hr)	10:18:05	10:31:36	10:46:36	11:00:05	11:13:12	
Tot Purge Time (min)	03:35	03:06	03:06	03:05	03:07	
Temperature (°C)	14.55	14.89	15.23	14.74	14.96	
pH (S.U.)	7.61	7.24	7.84	7.86	7.87	
ORP	-56	57	85	105	124	
Conductivity (mS/cm)	0.528	0.470	0.472	0.467	0.470	
Turbidity (NTU)	2.6	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	2.78	0.00	0.00	0.00	
Volume Purged (L)	3.84	3.25	3.33	3.28	3.29	
Tot Vol Purged (L)		7.1	10.4	13.7	17.0	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.31**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-16 Port 5

Date/Weather: 12/28/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.82 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.28 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.261 Liters
5. Port Interval:	135-145 ft bgs	11. Remaining Sample Volume:	2.72 Liters
6. Pump Depth:	101.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:05	09:24	16:15	11:24	
Start Time (24 hr)	10:07:40	10:23:35	10:36:06	10:55:15	11:10:09	
Stop Time (24 hr)	10:12:30	10:26:42	10:39:00	10:58:45	11:13:11	
Tot Purge Time (min)	04:50	03:07	02:54	03:30	03:02	
Temperature (°C)	12.64	12.52	13.78	13.90	13.70	
pH (S.U.)	6.99	5.39	7.53	7.54	6.90	
ORP	9	140	65	85	140	
Conductivity (mS/cm)	0.479	136.000	0.419	0.421	0.405	
Turbidity (NTU)	27.2	260.0	15.9	14.4	25.5	
Dissolved O (mg/L)	0.00	8.46	0.47	4.46	6.41	
Volume Purged (L)	4.30	3.24	2.95	3.34	3.09	
Tot Vol Purged (L)		7.5	10.5	13.8	16.9	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.27

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-16 Port 6

Date/Weather: 12/28/16 **Water Meter Serial #:** EF9F02DM

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.86 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.44 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.263 Liters
5. Port Interval:	170-180 ft bgs	11. Remaining Sample Volume:	2.72 Liters
6. Pump Depth:	102.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		07:55	09:05	11:47	08:41	
Start Time (24 hr)	8:16:16	8:27:45	8:40:00	8:55:00	9:07:00	
Stop Time (24 hr)	8:19:50	8:30:55	8:43:13	8:58:19	9:10:50	
Tot Purge Time (min)	03:34	03:10	03:13	03:19	03:50	
Temperature (°C)	13.07	13.39	14.02	14.25	14.35	
pH (S.U.)	6.85	6.94	7.35	7.52	7.37	
ORP	234	156	89	95	111	
Conductivity (mS/cm)	0.612	0.445	0.422	0.419	0.417	
Turbidity (NTU)	32.7	29.1	21.7	17.0	16.6	
Dissolved O (mg/L)	0.00	0.00	0.00	7.82	2.70	
Volume Purged (L)	3.86	3.05	3.21	3.30	3.15	
Tot Vol Purged (L)		6.9	10.1	13.4	16.6	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.35**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-16 Port 7

Date/Weather: 12/28/16 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.91 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.64 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.266 Liters
5. Port Interval:	195-205 ft bgs	11. Remaining Sample Volume:	2.72 Liters
6. Pump Depth:	103.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		06:43	07:14	09:42	10:04	
Start Time (24 hr)	8:11:00	8:21:30	8:32:00	8:45:00	8:58:30	
Stop Time (24 hr)	8:14:47	8:24:46	8:35:18	8:48:26	9:01:56	
Tot Purge Time (min)	03:47	03:16	03:18	03:26	03:26	
Temperature (°C)	13.03	13.52	13.07	14.31	14.44	
pH (S.U.)	8.50	8.32	8.28	8.12	8.06	
ORP	58	58	119	161	173	
Conductivity (mS/cm)	0.457	0.451	0.425	0.421	0.420	
Turbidity (NTU)	9.9	9.3	0.0	0.0	0.0	
Dissolved O (mg/L)	1.20	1.06	1.05	0.33	0.00	
Volume Purged (L)	3.96	3.25	3.30	3.48	3.50	
Tot Vol Purged (L)		7.2	10.5	14.0	17.5	

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.41**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-16 Port 7

Date/Weather: 1/4/17 **Water Meter Serial #:** NJSPEPN6

Water FLUTe Information

1. Hole Depth:	246.00 ft bgs	7. Approx. Max Purge Volume:	3.91 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.64 Liters
3. Installation Date:		9. Sample Stroke:	2.98 Liters
4. Water Table	9.00 ft bgs	10. Minimum Recommended Discard:	0.266 Liters
5. Port Interval:	195-205 ft bgs	11. Remaining Sample Volume:	2.72 Liters
6. Pump Depth:	103.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		12:54	07:58			
Start Time (24 hr)	11:52:00	12:08:30	12:20:00			
Stop Time (24 hr)	11:55:36	12:12:02	12:23:29			
Tot Purge Time (min)	03:36	03:32	03:29			
Temperature (°C)	14.30	14.83	15.23			
pH (S.U.)	7.71	7.75	7.85			
ORP	105	123	124			
Conductivity (mS/cm)	0.478	0.468	0.461			
Turbidity (NTU)	4.3	0.0	0.0			
Dissolved O (mg/L)	2.33	0.00	0.00			
Volume Purged (L)	3.55	3.50	3.37			
Tot Vol Purged (L)		7.1	10.4			

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.35**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-17 Port 1

Date/Weather: 1/5/17 **Water Meter Serial #: PB**

Water FLUTe Information

1. Hole Depth:	249.00 ft bgs	7. Approx. Max Purge Volume:	4.74 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	18.96 Liters
3. Installation Date:		9. Sample Stroke:	3.84 Liters
4. Water Table	19.00 ft bgs	10. Minimum Recommended Discard:	0.279 Liters
5. Port Interval:	170-180 ft bgs	11. Remaining Sample Volume:	3.56 Liters
6. Pump Depth:	134.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 69 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		50:39	08:47	12:20		
Start Time (24 hr)	11:41:00	14:36:30	14:50:00	15:07:00		
Stop Time (24 hr)	11:45:51	14:41:13	14:54:40	15:11:27		
Tot Purge Time (min)	04:51	04:43	04:40	04:27		
Temperature (°C)	13.32	13.47	13.53	13.96		
pH (S.U.)	7.61	7.59	7.88	7.77		
ORP	128	188	182	188		
Conductivity (mS/cm)	0.468	0.426	0.412	0.412		
Turbidity (NTU)	1.4	12.1	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.41	4.41	4.22	4.34		
Tot Vol Purged (L)		8.8	13.0	17.4		

SAMPLE TIME: Start 1530 Stop 1559

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.29

Analyses:

NOTES: Sulfur odor

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-17 Port 2

Date/Weather: 1/5/17 **Water Meter Serial #:** E8

Water FLUTe Information

1. Hole Depth:	249.00 ft bgs	7. Approx. Max Purge Volume:	4.88 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	19.50 Liters
3. Installation Date:		9. Sample Stroke:	3.84 Liters
4. Water Table	19.00 ft bgs	10. Minimum Recommended Discard:	0.315 Liters
5. Port Interval:	205-215 ft bgs	11. Remaining Sample Volume:	3.52 Liters
6. Pump Depth:	135.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 69 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		50:38	08:40	12:31		
Start Time (24 hr)	11:41:00	14:36:30	14:50:00	15:07:00		
Stop Time (24 hr)	11:45:52	14:41:20	14:54:29	15:11:33		
Tot Purge Time (min)	04:52	04:50	04:29	04:33		
Temperature (°C)	12.57	11.47	12.86	13.07		
pH (S.U.)	7.76	7.97	8.03	8.01		
ORP	153	145	120	87		
Conductivity (mS/cm)	0.508	0.518	0.488	0.481		
Turbidity (NTU)	1.2	1.2	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	4.28	4.15	4.20	4.31		
Tot Vol Purged (L)		8.4	12.6	16.9		

SAMPLE TIME: Start 1530 Stop 1559

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.28**

Analyses:

NOTES: Sulfur Odor

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-17 Port 3

Date/Weather: 1/5/17 **Water Meter Serial #: E8**

Water FLUTe Information

1. Hole Depth:	249.00 ft bgs	7. Approx. Max Purge Volume:	4.90 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	19.60 Liters
3. Installation Date:		9. Sample Stroke:	3.84 Liters
4. Water Table	19.00 ft bgs	10. Minimum Recommended Discard:	0.317 Liters
5. Port Interval:	235-245 ft bgs	11. Remaining Sample Volume:	3.52 Liters
6. Pump Depth:	136.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 52 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		50:28	08:30	27:22	41:24	
Start Time (24 hr)	11:41:00	14:36:30	14:50:00	15:19:00	16:04:00	
Stop Time (24 hr)	11:46:02	14:41:30	14:51:38	15:22:36	16:08:20	
Tot Purge Time (min)	05:02	05:00	01:38	03:36	04:20	
Temperature (°C)	13.60	13.63	13.38	13.57	13.70	
pH (S.U.)	7.57	7.73	7.86	8.06	7.89	
ORP	31	99	72	98	108	
Conductivity (mS/cm)	0.510	0.500	0.490	0.487	0.479	
Turbidity (NTU)	1.3	4.5	3.2	18.9	3.8	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00	
Volume Purged (L)	4.44	4.34	1.50	3.18	3.85	
Tot Vol Purged (L)		8.8	10.3	13.5	17.3	

SAMPLE TIME: Start 1530 Stop 1559

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.10

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-18 Port 1

Date/Weather: 1/6/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	249.00 ft bgs	7. Approx. Max Purge Volume:	4.06 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.24 Liters
3. Installation Date:		9. Sample Stroke:	3.37 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.243 Liters
5. Port Interval:	160-170 ft bgs	11. Remaining Sample Volume:	3.13 Liters
6. Pump Depth:	107.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:03	09:57	09:58		
Start Time (24 hr)	14:00:00	14:14:06	14:28:00	14:42:00		
Stop Time (24 hr)	14:04:03	14:18:03	14:32:02	14:46:02		
Tot Purge Time (min)	04:03	03:57	04:02	04:02		
Temperature (°C)	12.15	12.75	12.68	12.10		
pH (S.U.)	7.87	7.77	7.84	7.85		
ORP	133	142	172	192		
Conductivity (mS/cm)	0.381	0.366	0.370	0.381		
Turbidity (NTU)	1.7	1.4	0.00	0.00		
Dissolved O (mg/L)	0.43	0.00	4.85	0.00		
Volume Purged (L)	3.71	3.65	3.65	3.67		
Tot Vol Purged (L)		7.4	11.0	14.7		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): **0.37**

Analyses: _____

NOTES: Sample tube mislabeled

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-18 Port 2

Date/Weather: 1/6/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	249.00 ft bgs	7. Approx. Max Purge Volume:	4.17 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.68 Liters
3. Installation Date:		9. Sample Stroke:	3.37 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.279 Liters
5. Port Interval:	210-220 ft bgs	11. Remaining Sample Volume:	3.09 Liters
6. Pump Depth:	108.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 69 Recommended **SAMPLING** PSI 52

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:03	10:10	10:19		
Start Time (24 hr)	14:00:00	14:14:00	14:28:00	14:42:00		
Stop Time (24 hr)	14:03:57	14:17:50	14:31:41	14:45:49		
Tot Purge Time (min)	03:57	03:50	03:41	03:49		
Temperature (°C)	12.64	12.03	12.56	12.73		
pH (S.U.)	7.55	7.54	7.75	7.76		
ORP	112	109	121	124		
Conductivity (mS/cm)	0.452	0.453	0.459	0.455		
Turbidity (NTU)	15.5	18.5	1.00	0.00		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.66	3.50	3.45	3.51		
Tot Vol Purged (L)		7.2	10.6	14.1		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): **0.34**

Analyses:

NOTES: Sample tube mislabeled

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-19 Port 1

Date/Weather: 1/19/17 **Water Meter Serial #: PG** _____

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	3.84 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.36 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.232 Liters
5. Port Interval:	65-75 ft bgs	11. Remaining Sample Volume:	2.97 Liters
6. Pump Depth:	102.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:18	0:27	0:20		
Start Time (24 hr)	7:26:00	7:48:00	8:18:00	8:42:00		
Stop Time (24 hr)	7:29:14	7:50:53	8:21:11	8:45:00		
Tot Purge Time (min)	3:14	2:53	3:11	3:00		
Temperature (°C)	11.83	12.36	12.01	12.72		
pH (S.U.)	7.27	7.70	7.77	7.85		
ORP	-78	-82	4	51		
Conductivity (mS/cm)	0.440	0.519	0.533	0.516		
Turbidity (NTU)	3.0	7.4	0.0	2.9		
Dissolved O (mg/L)	2.87	3.01	2.99	2.66		
Volume Purged (L)	3.28	3.64	3.03	2.76		
Tot Vol Purged (L)		6.9	10.0	12.7		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Average Recovery Rate (L/MIN): 0.15

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-19 Port 2

Date/Weather: 1/19/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	3.95 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.80 Liters
3. Installation Date:		9. Sample Stroke:	3.20 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.268 Liters
5. Port Interval:	132-142 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	103.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:23	0:27	0:20		
Start Time (24 hr)	7:26:00	7:48:00	8:18:00	8:42:00		
Stop Time (24 hr)	7:24:18	7:51:00	8:21:14	8:45:07		
Tot Purge Time (min)	3:18	3:00	3:14	3:07		
Temperature (°C)	12.78	12.88	12.91	1302.00		
pH (S.U.)	7.33	7.69	7.75	7.87		
ORP	-95	-84	-16	38		
Conductivity (mS/cm)	0.183	0.371	0.405	0.395		
Turbidity (NTU)	40.3	4.2	1.2	2.8		
Dissolved O (mg/L)	350.00	3.49	3.08	3.75		
Volume Purged (L)	3.34	2.80	3.07	2.89		
Tot Vol Purged (L)		6.1	9.2	12.1		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.12

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-19 Port 3

Date/Weather: 1/19/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	3.99 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.96 Liters
3. Installation Date:		9. Sample Stroke:	3.20 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.270 Liters
5. Port Interval:	200-210 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	104.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:24	0:38	0:20		
Start Time (24 hr)	7:07:30	7:36:00	8:18:00	8:42:01		Quick connect changed (purge 2)
Stop Time (24 hr)	7:11:04	7:39:52	8:21:28	8:45:18		
Tot Purge Time (min)	3:34	3:52	3:28	3:18		
Temperature (°C)	11.00	12.97	13.37	13.14		
pH (S.U.)	6.95	7.49	7.74	7.82		
ORP	-65	-92	-7	35		
Conductivity (mS/cm)	0.920	0.599	0.494	0.487		
Turbidity (NTU)	7.8	0.9	19.4	1.8		
Dissolved O (mg/L)	4.26	3.06	3.07	3.33		
Volume Purged (L)	3.45	3.27	3.56	3.10		
Tot Vol Purged (L)		6.7	10.3	13.4		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.13

Analyses:

NOTES: Fitting leaking. Replaced teflon on CPC Quick Connest attached to well head.

Still leaking; fitting cracked. Replaced entire fitting

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-19 Port 4

Date/Weather: 1/19/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	4.04 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.16 Liters
3. Installation Date:		9. Sample Stroke:	3.20 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.272 Liters
5. Port Interval:	257-267 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	105.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:24	0:20	0:26		
Start Time (24 hr)	7:07:30	7:36:00	8:00:00	8:30:00		
Stop Time (24 hr)	7:11:15	7:39:43	8:03:16	8:33:23		
Tot Purge Time (min)	3:45	3:43	3:16	3:23		
Temperature (°C)	12.19	13.53	13.14	13.37		
pH (S.U.)	7.42	7.62	7.81	7.80		
ORP	197	-53	38	56		
Conductivity (mS/cm)	0.436	0.567	0.605	0.615		
Turbidity (NTU)	4.2	3.3	0.0	0.0		
Dissolved O (mg/L)	2.01	0.00	0.00	0.00		
Volume Purged (L)	3.44	3.25	3.12	3.24		
Tot Vol Purged (L)		6.7	9.8	13.1		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.14**

Analyses:

NOTES: Duplicate sample collected for all analyses

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-19 Port 5

Date/Weather: 1/19/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	4.08 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.32 Liters
3. Installation Date:		9. Sample Stroke:	3.20 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.275 Liters
5. Port Interval:	367-377 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	106.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:18	0:26	0:20		
Start Time (24 hr)	7:26:00	7:48:00	8:18:00	8:42:00		
Stop Time (24 hr)	7:29:37	7:51:22	8:21:35	8:45:30		
Tot Purge Time (min)	3:37	3:22	3:35	3:30		
Temperature (°C)	12.47	12.59	12.83	13.02		
pH (S.U.)	7.60	7.66	7.78	7.82		
ORP	-50	-13	58	83		
Conductivity (mS/cm)	0.950	1.070	0.823	0.754		
Turbidity (NTU)	3.8	0.7	0.0	0.0		
Dissolved O (mg/L)	0.89	0.55	0.97	1.40		
Volume Purged (L)	0.00	3.25	3.56	3.35		
Tot Vol Purged (L)		3.3	6.8	10.2		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.16

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-19 Port 6

Date/Weather: 1/19/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	4.12 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.48 Liters
3. Installation Date:		9. Sample Stroke:	3.20 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.277 Liters
5. Port Interval:	480-490 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	107.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:18	0:26	0:20		
Start Time (24 hr)	7:26:00	7:48:00	8:18:00	8:42:00		
Stop Time (24 hr)	7:29:49	7:51:36	8:21:44	8:45:40		
Tot Purge Time (min)	3:49	3:36	3:44	3:40		
Temperature (°C)	12.60	12.74	12.96	13.19		
pH (S.U.)	7.35	7.33	7.41	7.44		
ORP	-42	0	68	94		
Conductivity (mS/cm)	1.950	2.890	2.800	2.880		
Turbidity (NTU)	7.7	0.0	0.0	1.0		
Dissolved O (mg/L)	0.46	1.51	0.62	0.40		
Volume Purged (L)	3.69	3.48	3.61	3.94		
Tot Vol Purged (L)		7.2	10.8	14.7		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.17

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-19 Port 7

Date/Weather: 1/19/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	590.00 ft bgs	7. Approx. Max Purge Volume:	4.17 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.68 Liters
3. Installation Date:		9. Sample Stroke:	3.20 Liters
4. Water Table	8.00 ft bgs	10. Minimum Recommended Discard:	0.279 Liters
5. Port Interval:	545-555 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	108.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 40

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:24	0:19	0:25		
Start Time (24 hr)	7:07:30	7:36:00	8:00:00	8:29:30		
Stop Time (24 hr)	7:11:30	7:40:09	8:03:43	8:33:14		
Tot Purge Time (min)	4:00	4:09	3:43	3:44		
Temperature (°C)	12.45	13.15	12.90	13.05		
pH (S.U.)	7.04	7.30	7.40	7.54		
ORP	-40	-38	49	77		
Conductivity (mS/cm)	2.830	2.800	2.730	2.830		
Turbidity (NTU)	24.1	0.0	0.0	0.0		
Dissolved O (mg/L)	1.46	0.00	0.00	0.00		
Volume Purged (L)	3.87	3.80	3.70	3.76		
Tot Vol Purged (L)		7.7	11.4	15.1		

SAMPLE TIME: Start 0917 Stop 1001

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.16**

Analyses:

NOTES: MS/MSD Sample Colloected for all analyses

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 1

Date/Weather: 1/11/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.50 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.00 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.214 Liters
5. Port Interval:	25-35 ft bgs	11. Remaining Sample Volume:	2.72 Liters
6. Pump Depth:	92.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:55	15:26	19:39	19:39	
Start Time (24 hr)	12:58:00	13:11:30	13:29:00	13:51:00	14:13:00	
Stop Time (24 hr)	13:01:35	13:13:34	13:31:21	13:53:21	14:15:30	
Tot Purge Time (min)	03:35	02:04	02:21	02:21	02:30	
Temperature (°C)	14.88	14.30	14.54	14.70	14.82	
pH (S.U.)	7.06	7.67	7.44	7.26	7.72	
ORP	7	28	-26	-89	-97	
Conductivity (mS/cm)	5.560	3.080	3.790	2.840	2.720	
Turbidity (NTU)	10.2	18.1	3.50	2.50	2.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00	
Volume Purged (L)	3.06	1.81	2.51	2.71	2.73	
Tot Vol Purged (L)		4.9	7.4	10.1	12.8	

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.16

Analyses:

NOTES: Bubbles observed in purge 1 and purge 2

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 2

Date/Weather: 1/11/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.61 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.44 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.250 Liters
5. Port Interval:	85-95 ft bgs	11. Remaining Sample Volume:	2.69 Liters
6. Pump Depth:	93.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:43	15:10	19:26	19:19	
Start Time (24 hr)	12:57:00	13:11:30	13:29:00	13:51:00	14:13:00	
Stop Time (24 hr)	13:00:47	13:13:50	13:31:34	13:53:41	14:15:39	
Tot Purge Time (min)	03:47	02:20	02:34	02:41	02:39	
Temperature (°C)	10.55	14.86	14.78	14.83	14.95	
pH (S.U.)	7.25	7.83	7.80	7.67	7.64	
ORP	15	14	-64	-113	-118	
Conductivity (mS/cm)	0.655	0.602	0.584	0.741	0.667	
Turbidity (NTU)	2.4	3.0	0.00	0.00	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00	
Volume Purged (L)	2.95	2.36	2.68	2.87	2.92	
Tot Vol Purged (L)		5.3	8.0	10.9	13.8	

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.18

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 3

Date/Weather: 1/12/17 **Water Meter Serial #:** TJ

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.65 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.60 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.252 Liters
5. Port Interval:	125-135 ft bgs	11. Remaining Sample Volume:	2.69 Liters
6. Pump Depth:	94.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		15:00	19:07	15:25		
Start Time (24 hr)	14:36:00	14:54:00	15:16:00	15:33:45		
Stop Time (24 hr)	14:39:00	14:56:53	15:18:20	15:36:30		
Tot Purge Time (min)	03:00	02:53	02:20	02:45		
Temperature (°C)	16.63	16.67	16.23	15.72		
pH (S.U.)	7.75	7.89	7.93	7.82		
ORP	119	104	122	133		
Conductivity (mS/cm)	1.090	1.100	1.130	1.140		
Turbidity (NTU)	0.0	0.0	0.00	0.00		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.15	2.83	2.98	2.82		
Tot Vol Purged (L)		6.0	9.0	11.8		

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.18**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 4

Date/Weather: 1/12/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.69 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.76 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	175-185 ft bgs	11. Remaining Sample Volume:	2.68 Liters
6. Pump Depth:	95.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		15:00	19:05	15:13		
Start Time (24 hr)	14:36:00	14:54:00	15:16:00	15:33:45		
Stop Time (24 hr)	14:39:00	14:56:55	15:18:32	15:36:34		
Tot Purge Time (min)	03:00	02:55	02:32	02:49		
Temperature (°C)	16.76	16.27	15.88	15.95		
pH (S.U.)	8.01	8.00	7.93	7.90		
ORP	160	149	161	162		
Conductivity (mS/cm)	1.040	1.040	1.070	1.060		
Turbidity (NTU)	1.9	0.0	0.20	0.00		
Dissolved O (mg/L)	3.31	0.81	1.01	0.52		
Volume Purged (L)	3.22	2.86	3.02	2.87		
Tot Vol Purged (L)		6.1	9.1	12.0		

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.18

Analyses:

NOTES: Sulfur odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 5

Date/Weather: 1/11/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.73 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	14.92 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	205-215 ft bgs	11. Remaining Sample Volume:	2.68 Liters
6. Pump Depth:	96.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:07	14:54	19:08	19:07	
Start Time (24 hr)	12:57:00	13:11:30	13:29:00	13:51:00	14:13:00	
Stop Time (24 hr)	13:02:23	13:14:06	13:31:52	13:53:53	14:16:05	
Tot Purge Time (min)	05:23	02:36	02:52	02:53	03:05	
Temperature (°C)	13.92	14.05	14.56	14.52	14.84	
pH (S.U.)	7.92	7.97	8.06	7.89	7.97	
ORP	119	118	125	140	140	
Conductivity (mS/cm)	0.401	0.390	0.391	0.394	0.387	
Turbidity (NTU)	30.1	25.8	24.10	22.60	22.5	
Dissolved O (mg/L)	0.47	5.26	0.88	0.00	0.71	
Volume Purged (L)	3.26	2.32	2.73	3.00	2.99	
Tot Vol Purged (L)		5.6	8.3	11.3	14.3	

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.20**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 6

Date/Weather: 1/11/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.78 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.12 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.259 Liters
5. Port Interval:	250-260 ft bgs	11. Remaining Sample Volume:	2.68 Liters
6. Pump Depth:	97.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		09:08	14:53	18:58	18:57	
Start Time (24 hr)	12:57:00	13:11:30	13:29:00	13:51:00	14:13:00	
Stop Time (24 hr)	13:02:22	13:14:07	13:32:02	13:54:03	14:16:06	
Tot Purge Time (min)	05:22	02:37	03:02	03:03	03:06	
Temperature (°C)	14.56	14.61	14.82	14.88	14.89	
pH (S.U.)	7.86	7.86	7.90	7.89	7.96	
ORP	110	124	131	137	139	
Conductivity (mS/cm)	0.404	0.389	0.384	0.388	0.388	
Turbidity (NTU)	35.6	24.8	21.70	21.60	21.9	
Dissolved O (mg/L)	0.38	0.27	0.58	0.44	0.66	
Volume Purged (L)	3.60	2.32	2.90	3.05	3.09	
Tot Vol Purged (L)		5.9	8.8	11.9	15.0	

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.20

Analyses:

NOTES: Sulfur odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 7

Date/Weather: 1/13/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.82 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.28 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.261 Liters
5. Port Interval:	297-307 ft bgs	11. Remaining Sample Volume:	2.68 Liters
6. Pump Depth:	98.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:27	10:35	12:14		
Start Time (24 hr)	7:38:00	7:51:05	8:05:00	8:20:30		
Stop Time (24 hr)	7:41:38	7:54:25	8:08:16	8:23:51		
Tot Purge Time (min)	03:38	03:20	03:16	03:21		
Temperature (°C)	13.53	14.19	14.24	14.13		
pH (S.U.)	6.78	7.15	7.48	7.66		
ORP	194	126	130	141		
Conductivity (mS/cm)	0.963	0.931	0.961	0.984		
Turbidity (NTU)	2.1	0.0	1.00	0.00		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.41	3.24	3.14	3.23		
Tot Vol Purged (L)		6.6	9.8	13.0		

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.30

Analyses:

NOTES: Sulfur odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-20 Port 8

Date/Weather: 1/13/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	410.00 ft bgs	7. Approx. Max Purge Volume:	3.86 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.44 Liters
3. Installation Date:		9. Sample Stroke:	2.94 Liters
4. Water Table	6.00 ft bgs	10. Minimum Recommended Discard:	0.263 Liters
5. Port Interval:	355-365 ft bgs	11. Remaining Sample Volume:	2.68 Liters
6. Pump Depth:	99.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 53 Recommended **SAMPLING** PSI 36

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:26	10:39	12:11		
Start Time (24 hr)	7:38:00	7:51:05	8:05:00	8:20:30		
Stop Time (24 hr)	7:41:39	7:54:21	8:08:19	8:23:55		
Tot Purge Time (min)	03:39	03:16	03:19	03:25		
Temperature (°C)	12.33	13.78	14.19	14.15		
pH (S.U.)	8.23	7.77	7.81	7.85		
ORP	193	169	166	168		
Conductivity (mS/cm)	1.110	1.150	1.110	1.100		
Turbidity (NTU)	0.0	0.0	0.00	0.00		
Dissolved O (mg/L)	0.61	0.97	0.88	0.83		
Volume Purged (L)	3.46	3.03	3.11	3.23		
Tot Vol Purged (L)		6.5	9.6	12.8		

SAMPLE TIME: Start 1450 Stop 1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.
Other

Average Recovery Rate (L/MIN): 0.29

Analyses:

NOTES: MS/MSD sample collected for VOCs

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 1

Date/Weather: 1/19/17 **Water Meter Serial #:** PG

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	3.80 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.20 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.230 Liters
5. Port Interval:	50-60 ft bgs	11. Remaining Sample Volume:	2.96 Liters
6. Pump Depth:	97.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:11	15:00	0:20		
Start Time (24 hr)	13:52:30	14:05:00	14:21:00	14:43:00		
Stop Time (24 hr)	13:54:49	14:06:00	14:22:05	14:44:12		
Tot Purge Time (min)	2:19	1:00	1:05	1:12		
Temperature (°C)	11.88	12.33	12.00	12.01		
pH (S.U.)	7.73	7.71	7.74	7.65		
ORP	-57	-32	17	62		
Conductivity (mS/cm)	1.070	1.140	1.100	1.010		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	4.74	4.88	4.62	3.87		
Volume Purged (L)	2.01	1.36	1.60	1.83		
Tot Vol Purged (L)		3.4	5.0	6.8		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.03

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 2

Date/Weather: 1/19/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	3.91 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.64 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.266 Liters
5. Port Interval:	87-97 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	98.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:14	0:20		
Start Time (24 hr)	13:52:30	14:05:00	14:21:00	14:43:00		
Stop Time (24 hr)	13:54:51	14:06:04	14:22:10	14:44:16		
Tot Purge Time (min)	2:21	1:04	1:10	1:16		
Temperature (°C)	12.62	12.75	12.57	12.72		
pH (S.U.)	7.64	3.60	7.64	7.58		
ORP	-104	-83	9	56		
Conductivity (mS/cm)	0.946	1.190	1.080	1.010		
Turbidity (NTU)	21.8	12.9	6.3	4.8		
Dissolved O (mg/L)	3.02	3.17	3.52	3.60		
Volume Purged (L)	2.03	1.39	1.61	1.94		
Tot Vol Purged (L)		3.4	5.0	7.0		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.11

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 3

Date/Weather: 1/24/17 **Water Meter Serial #:** PG

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	3.95 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.80 Liters
3. Installation Date:		9. Sample Stroke:	3.15 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.268 Liters
5. Port Interval:	150-160 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	99.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:09:32	0:16:28	0:26:15		
Start Time (24 hr)	13:18:00	13:29:00	13:46:30	14:14:00		
Stop Time (24 hr)	13:19:28	13:30:02	13:47:45	14:15:13		
Tot Purge Time (min)	0:01:28	0:01:02	0:01:15	0:01:13		
Temperature (°C)	10.53	9.73	10.50	10.69		
pH (S.U.)	7.69	7.78	7.78	7.78		
ORP	-53	-33	-13	16		
Conductivity (mS/cm)	1.000	1.220	1.110	1.020		
Turbidity (NTU)	9.1	0.0	0.0	0.0		
Dissolved O (mg/L)	5.41	4.31	4.87	4.42		
Volume Purged (L)	2.16	1.46	1.90	2.05		
Tot Vol Purged (L)		4	6	8		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.12

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 4

Date/Weather: 1/24/17 **Water Meter Serial #:** PG

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	3.99 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.96 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.270 Liters
5. Port Interval:	205-215 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	100.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:09:32	0:16:25	0:26:10		
Start Time (24 hr)	13:18:00	13:29:00	13:46:30	14:14:00		
Stop Time (24 hr)	13:19:28	13:30:05	13:47:50	14:15:26		
Tot Purge Time (min)	0:01:28	0:01:05	0:01:20	0:01:26		
Temperature (°C)	11.37	11.64	11.89	12.03		
pH (S.U.)	7.54	7.60	7.62	7.65		
ORP	-84	-153	-211	68		
Conductivity (mS/cm)	1.190	1.120	1.080	0.991		
Turbidity (NTU)	32.9	8.6	4.4	0.0		
Dissolved O (mg/L)	4.39	3.27	3.00	1.04		
Volume Purged (L)	2.22	1.51	1.98	2.25		
Tot Vol Purged (L)		4	6	8		

SAMPLE TIME: Start 1508 Stop 1629

Average Recovery Rate (L/MIN): 0.12

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 5

Date/Weather: 1/19/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	4.04 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.16 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.272 Liters
5. Port Interval:	260-270 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	101.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		9:58	10:58	11:58		
Start Time (24 hr)	13:52:30	14:05:00	14:21:00	14:43:00		
Stop Time (24 hr)	13:55:02	14:16:16	14:22:20	14:44:29		
Tot Purge Time (min)	2:32	1:16	1:20	1:29		
Temperature (°C)	12.28	12.18	12.45	12.70		
pH (S.U.)	7.67	7.73	7.69	7.70		
ORP	-76	-16	49	4		
Conductivity (mS/cm)	1.190	1.250	1.120	1.060		
Turbidity (NTU)	3.4	695.0	192.0	46.9		
Dissolved O (mg/L)	0.78	0.00	0.30	0.00		
Volume Purged (L)	2.29	1.66	1.86	2.11		
Tot Vol Purged (L)		4.0	5.8	7.9		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.003

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 6

Date/Weather: 1/19/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	4.08 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.32 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.275 Liters
5. Port Interval:	428-438 ft bgs	11. Remaining Sample Volume:	2.92 Liters
6. Pump Depth:	102.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		9:49	10:49	11:49		
Start Time (24 hr)	13:52:30	14:05:00	14:21:00	14:43:00		
Stop Time (24 hr)	13:55:11	14:06:05	14:22:29	14:44:35		
Tot Purge Time (min)	2:41	1:05	1:29	1:35		
Temperature (°C)	12.40	12.02	12.61	12.73		
pH (S.U.)	7.49	7.46	7.47	7.46		
ORP	-2	-39	35	88		
Conductivity (mS/cm)	2.250	2.410	1.600	2.380		
Turbidity (NTU)	16.9	30.2	12.8	2.5		
Dissolved O (mg/L)	3.50	0.61	0.59	0.00		
Volume Purged (L)	2.27	2.06	2.18	2.36		
Tot Vol Purged (L)		4.3	6.5	8.9		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.003

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 7

Date/Weather: 1/24/17 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	4.12 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.48 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.277 Liters
5. Port Interval:	485-495 ft bgs	11. Remaining Sample Volume:	2.91 Liters
6. Pump Depth:	103.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:09:23	0:16:07	0:25:52		
Start Time (24 hr)	13:18:00	13:29:00	13:46:30	14:14:00		
Stop Time (24 hr)	13:19:37	13:30:23	13:48:08	14:15:30		
Tot Purge Time (min)	0:01:37	0:01:23	0:01:38	0:01:30		
Temperature (°C)	10.15	11.18	11.53	11.83		
pH (S.U.)	7.44	7.49	7.54	7.49		
ORP	61	84	104	92		
Conductivity (mS/cm)	2.520	2.520	2.430	2.450		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	2.86	1.45	1.05	1.11		
Volume Purged (L)	2.42	2.01	2.35	2.54		
Tot Vol Purged (L)		4	7	9		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.15**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-21 Port 8

Date/Weather: 1/24/17 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	550.00 ft bgs	7. Approx. Max Purge Volume:	4.17 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.68 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	4.90 ft bgs	10. Minimum Recommended Discard:	0.279 Liters
5. Port Interval:	505-515 ft bgs	11. Remaining Sample Volume:	2.91 Liters
6. Pump Depth:	104.90 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 55 Recommended **SAMPLING** PSI 38

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:09:24	0:16:04	0:26:00		
Start Time (24 hr)	13:18:00	13:29:00	13:46:30	14:14:00		
Stop Time (24 hr)	13:19:36	13:30:26	13:48:00	14:15:38		
Tot Purge Time (min)	0:01:36	0:01:26	0:01:30	0:01:38		
Temperature (°C)	11.28	11.38	11.45	12.01		
pH (S.U.)	7.36	7.41	7.47	7.46		
ORP	25	69	87	88		
Conductivity (mS/cm)	2.440	2.490	2.500	2.430		
Turbidity (NTU)	30.6	0.0	0.0	0.0		
Dissolved O (mg/L)	1.89	1.37	1.20	1.05		
Volume Purged (L)	2.36	2.23	2.25	2.50		
Tot Vol Purged (L)		5	7	9		

SAMPLE TIME: Start 1508 Stop 1629

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.16**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-22 Port 1

Date/Weather: 1/12/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	350.00 ft bgs	7. Approx. Max Purge Volume:	3.97 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	15.88 Liters
3. Installation Date:		9. Sample Stroke:	3.31 Liters
4. Water Table	7.61 ft bgs	10. Minimum Recommended Discard:	0.239 Liters
5. Port Interval:	45-55 ft bgs	11. Remaining Sample Volume:	3.07 Liters
6. Pump Depth:	104.61 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:24	13:42	15:39		
Start Time (24 hr)	7:49:00	8:04:00	8:21:00	8:40:00		
Stop Time (24 hr)	7:52:36	8:07:18	8:24:21	8:43:27		
Tot Purge Time (min)	03:36	03:18	03:21	03:27		
Temperature (°C)	13.13	13.88	13.79	13.96		
pH (S.U.)	6.94	7.33	7.54	7.66		
ORP	175	91	113	127		
Conductivity (mS/cm)	1.060	1.030	1.060	1.010		
Turbidity (NTU)	0.0	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.48	3.01	3.12	3.16		
Tot Vol Purged (L)		6.5	9.6	12.8		

SAMPLE TIME: Start 0910 Stop 0956

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.23**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-22 Port 2

Date/Weather: 1/12/17 **Water Meter Serial #: V8**

Water FLUTe Information

1. Hole Depth:	350.00 ft bgs	7. Approx. Max Purge Volume:	4.08 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.32 Liters
3. Installation Date:		9. Sample Stroke:	3.31 Liters
4. Water Table	7.61 ft bgs	10. Minimum Recommended Discard:	0.275 Liters
5. Port Interval:	125-135 ft bgs	11. Remaining Sample Volume:	3.03 Liters
6. Pump Depth:	105.61 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:23	13:35	15:32		
Start Time (24 hr)	7:49:00	8:04:00	8:21:00	8:40:00		
Stop Time (24 hr)	7:52:37	8:07:25	8:24:28	8:43:28		
Tot Purge Time (min)	03:37	03:25	03:28	03:28		
Temperature (°C)	13.02	13.95	13.91	13.89		
pH (S.U.)	8.55	7.74	7.85	7.85		
ORP	162	159	156	164		
Conductivity (mS/cm)	1.210	0.952	0.916	0.909		
Turbidity (NTU)	8.3	0.0	0.0	0.0		
Dissolved O (mg/L)	1.70	0.00	0.00	0.00		
Volume Purged (L)	3.52	3.11	0.00	3.34		
Tot Vol Purged (L)		6.6	6.6	10.0		

SAMPLE TIME: Start 0910 Stop 0956

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.16

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-22 Port 3

Date/Weather: 1/12/17 **Water Meter Serial #: TJ**

Water FLUTe Information

1. Hole Depth:	350.00 ft bgs	7. Approx. Max Purge Volume:	4.12 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.48 Liters
3. Installation Date:		9. Sample Stroke:	3.31 Liters
4. Water Table	7.61 ft bgs	10. Minimum Recommended Discard:	0.277 Liters
5. Port Interval:	210-220 ft bgs	11. Remaining Sample Volume:	3.03 Liters
6. Pump Depth:	106.61 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:48	13:57	16:53		
Start Time (24 hr)	7:56:30	8:12:00	8:29:30	8:50:00		
Stop Time (24 hr)	8:00:12	8:15:33	8:33:07	8:53:41		
Tot Purge Time (min)	03:42	03:33	03:37	03:41		
Temperature (°C)	13.79	13.81	13.84	13.86		
pH (S.U.)	7.32	7.57	7.71	7.75		
ORP	134	93	116	126		
Conductivity (mS/cm)	0.914	0.955	0.991	1.090		
Turbidity (NTU)	0.0	0.0	3.6	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00	0.00		
Volume Purged (L)	3.67	3.54	3.50	3.55		
Tot Vol Purged (L)		7.2	10.7	14.3		

SAMPLE TIME: Start 0910 Stop 0956

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.25

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-22 Port 4

Date/Weather: 1/12/17 **Water Meter Serial #:** V8

Water FLUTe Information

1. Hole Depth:	350.00 ft bgs	7. Approx. Max Purge Volume:	4.17 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.68 Liters
3. Installation Date:		9. Sample Stroke:	3.31 Liters
4. Water Table	7.61 ft bgs	10. Minimum Recommended Discard:	0.279 Liters
5. Port Interval:	305-315 ft bgs	11. Remaining Sample Volume:	3.03 Liters
6. Pump Depth:	107.61 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 57 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		11:22	13:38	16:34		
Start Time (24 hr)	7:56:30	8:12:00	8:29:30	8:50:01		
Stop Time (24 hr)	8:00:38	8:15:52	8:33:27	8:54:02		
Tot Purge Time (min)	04:08	03:52	03:57	04:01		
Temperature (°C)	13.77	14.02	14.09	14.19		
pH (S.U.)	8.01	7.83	7.95	7.84		
ORP	166	150	151	163		
Conductivity (mS/cm)	0.912	0.881	0.865	0.848		
Turbidity (NTU)	0.3	1.4	0.6	0.0		
Dissolved O (mg/L)	0.73	0.57	0.63	0.00		
Volume Purged (L)	3.61	3.48	3.63	3.62		
Tot Vol Purged (L)		7.1	10.7	14.3		

SAMPLE TIME: Start 0910 Stop 0956

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.26

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 1

Date/Weather: 1/18/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	60-70 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:27	0:19	0:21		
Start Time (24 hr)	8:48:00	9:20:00	9:43:00	10:07:00		
Stop Time (24 hr)	8:52:40	9:23:13	9:45:59	10:10:00		
Tot Purge Time (min)	4:40	3:13	2:59	3:00		
Temperature (°C)	12.05	12.72	12.58	12.61		
pH (S.U.)	7.14	5.13	7.67	7.67		
ORP	-98	-216	63	94		
Conductivity (mS/cm)	0.665	0.715	0.585	0.598		
Turbidity (NTU)	10.5	7.4	2.0	0.0		
Dissolved O (mg/L)	2.45	0.61	1.08	1.02		
Volume Purged (L)	3.60	3.53	3.16	3.21		
Tot Vol Purged (L)		7.1	10.3	13.5		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.15

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 2

Date/Weather: 1/18/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	120-130 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:27	0:19	0:20		
Start Time (24 hr)	8:48:00	9:20:00	9:43:00	10:07:00		
Stop Time (24 hr)	8:52:46	9:23:20	9:46:11	10:10:11		
Tot Purge Time (min)	4:46	3:20	3:11	3:11		
Temperature (°C)	12.44	13.06	12.96	12.85		
pH (S.U.)	7.52	8.02	7.47	7.55		
ORP	-146	-212	1	93		
Conductivity (mS/cm)	0.577	0.212	0.606	0.608		
Turbidity (NTU)	34.7	2.9	3.9	2.9		
Dissolved O (mg/L)	2.01	2.21	2.01	2.18		
Volume Purged (L)	3.66	3.57	3.26	3.23		
Tot Vol Purged (L)		7.2	10.5	13.7		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.15

Analyses:

NOTES: Odor

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 3

Date/Weather: 1/18/17 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	170-180 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:27	0:19	0:20		
Start Time (24 hr)	8:48:00	9:20:00	9:43:00	10:07:00		
Stop Time (24 hr)	8:52:47	9:23:20	9:46:12	10:10:13		
Tot Purge Time (min)	4:47	3:20	3:12	3:13		
Temperature (°C)	11.70	12.92	12.66	12.68		
pH (S.U.)	7.46	7.57	7.88	7.82		
ORP	-84	-67	-133	-81		
Conductivity (mS/cm)	0.733	0.238	0.749	0.753		
Turbidity (NTU)	7.0	86.2	0.0	0.0		
Dissolved O (mg/L)	0.00	3.21	0.00	0.00		
Volume Purged (L)	3.64	3.71	3.38	3.41		
Tot Vol Purged (L)		7.4	10.7	14.1		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.16**

Analyses:

NOTES: Odor

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 4

Date/Weather: 1/18/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	226-236 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:27	0:19	0:20		
Start Time (24 hr)	8:48:00	9:20:00	9:43:00	10:07:00		
Stop Time (24 hr)	8:52:51	9:23:21	9:46:14	10:10:16		
Tot Purge Time (min)	4:51	3:21	3:14	3:16		
Temperature (°C)	12.33	12.81	12.90	12.97		
pH (S.U.)	7.63	7.88	7.86	7.83		
ORP	-99	-296	-133	-84		
Conductivity (mS/cm)	0.611	0.614	0.624	0.619		
Turbidity (NTU)	35.2	1.2	0.7	0.0		
Dissolved O (mg/L)	0.81	0.71	0.64	0.46		
Volume Purged (L)	3.74	3.48	3.49	3.41		
Tot Vol Purged (L)		7.2	10.7	14.1		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.16

Analyses:

NOTES: Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 5

Date/Weather: 1/18/17 **Water Meter Serial #:** PG

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	258-268 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:21	0:20	0:26		
Start Time (24 hr)	9:06:00	9:31:00	9:55:00	10:25:00		
Stop Time (24 hr)	9:09:52	9:34:26	9:58:20	10:28:22		
Tot Purge Time (min)	3:52	3:26	3:20	3:22		
Temperature (°C)	12.41	12.48	12.69	12.52		
pH (S.U.)	7.65	7.83	7.83	7.82		
ORP	-91	6	82	96		
Conductivity (mS/cm)	0.489	0.498	0.512	0.519		
Turbidity (NTU)	12.5	2.5	1.9	1.5		
Dissolved O (mg/L)	3.85	3.81	3.08	2.90		
Volume Purged (L)	3.80	3.59	3.50	3.58		
Tot Vol Purged (L)		7.4	10.9	14.5		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): **0.16**

Analyses:

NOTES: Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s): **Well ID and Port #:** MW-23 Port 6

Date/Weather: 1/18/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	316-326 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:21	0:20	0:27		
Start Time (24 hr)	9:06:00	9:31:00	9:55:00	10:25:00		
Stop Time (24 hr)	9:09:59	9:34:10	9:57:56	10:28:10		
Tot Purge Time (min)	3:59	3:10	2:56	3:10		
Temperature (°C)	12.63	12.76	12.87	12.99		
pH (S.U.)	7.68	7.80	7.81	7.76		
ORP	-127	-3	78	93		
Conductivity (mS/cm)	0.442	0.446	0.449	0.450		
Turbidity (NTU)	23.7	15.1	4.5	5.1		
Dissolved O (mg/L)	3.93	3.74	3.00	2.88		
Volume Purged (L)	3.82	3.01	2.95	3.31		
Tot Vol Purged (L)		6.8	9.8	13.1		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.14

Analyses:

NOTES: Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 7

Date/Weather: 1/18/17 **Water Meter Serial #: YAK**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	350-360 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:20	0:20	0:26		
Start Time (24 hr)	9:06:00	9:31:00	9:55:00	10:25:00		
Stop Time (24 hr)	9:10:06	9:34:38	9:58:30	10:28:31		
Tot Purge Time (min)	4:06	3:38	3:30	3:31		
Temperature (°C)	11.89	12.43	12.35	12.00		
pH (S.U.)	7.66	7.95	7.89	7.97		
ORP	-83	-166	-98	-8		
Conductivity (mS/cm)	0.476	0.482	0.484	0.482		
Turbidity (NTU)	8.5	1.5	0.0	0.0		
Dissolved O (mg/L)	1.10	1.81	0.48	0.66		
Volume Purged (L)	3.93	3.67	3.67	3.72		
Tot Vol Purged (L)		7.6	11.3	15.0		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.17

Analyses:

NOTES: Odor (purge 1)

Duplicate sample collected for VOCs

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 8

Date/Weather: 1/18/17 **Water Meter Serial #: YAK**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	406-416 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:20	0:20	0:26		
Start Time (24 hr)	9:06:00	9:31:00	9:55:00	10:25:00		
Stop Time (24 hr)	9:10:07	9:34:30	9:58:18	10:28:27		
Tot Purge Time (min)	4:07	3:30	3:18	3:27		
Temperature (°C)	12.41	12.82	12.88	12.83		
pH (S.U.)	7.65	7.78	7.71	7.73		
ORP	-120	-103	-94	-20		
Conductivity (mS/cm)	0.922	1.030	0.970	0.915		
Turbidity (NTU)	7.5	5.0	1.9	0.0		
Dissolved O (mg/L)	1.98	0.31	0.87	0.00		
Volume Purged (L)	3.83	3.44	3.29	3.61		
Tot Vol Purged (L)		7.3	10.6	14.2		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.15

Analyses:

NOTES: Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-23 Port 9

Date/Weather: 1/18/17 **Water Meter Serial #: YAK**

Water FLUTe Information

1. Hole Depth:	500.00 ft bgs	7. Approx. Max Purge Volume:	Liters
2. Hole Diameter:	in	8. Approx. 4x Purge Volume	0.00 Liters
3. Installation Date:		9. Sample Stroke:	Liters
4. Water Table	ft bgs	10. Minimum Recommended Discard:	Liters
5. Port Interval:	444-454 ft bgs	11. Remaining Sample Volume:	Liters
6. Pump Depth:	ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 70 Recommended **SAMPLING** PSI 50

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:20	0:20	0:26		
Start Time (24 hr)	9:06:00	9:31:00	9:55:00	10:25:00		
Stop Time (24 hr)	9:10:47	9:34:58	9:58:50	10:28:52		
Tot Purge Time (min)	4:47	3:58	3:50	3:52		
Temperature (°C)	12.85	13.15	13.18	13.12		
pH (S.U.)	7.57	7.62	7.56	7.58		
ORP	-129	-94	-88	-18		
Conductivity (mS/cm)	1.940	1.970	1.760	1.750		
Turbidity (NTU)	4.9	3.0	0.0	0.0		
Dissolved O (mg/L)	1.63	1.03	0.77	0.59		
Volume Purged (L)	4.14	4.05	4.06	4.12		
Tot Vol Purged (L)		8.2	12.3	16.4		

SAMPLE TIME: Start 1052 Stop 1136

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Average Recovery Rate (L/MIN): 0.19

Analyses:

NOTES: Odor

MS/MSD Sample collected for VOC

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-24 Port 1

Date/Weather: 1/23/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	485.00 ft bgs	7. Approx. Max Purge Volume:	4.23 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.92 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.60 ft bgs	10. Minimum Recommended Discard:	0.234 Liters
5. Port Interval:	85-95 ft bgs	11. Remaining Sample Volume:	2.95 Liters
6. Pump Depth:	108.60 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:11	0:16	0:21	0:26	
Start Time (24 hr)	7:47:00	8:02:00	8:21:00	8:45:30	9:15:06	
Stop Time (24 hr)	7:50:46	8:04:20	8:23:38	8:48:21	9:17:56	
Tot Purge Time (min:sec)	3:46	2:20	2:38	2:51	2:50	
Temperature (°C)	11.21	11.68	11.85	12.46	11.42	
pH (S.U.)	6.92	7.54	771.00	7.84	7.93	
ORP	-50	-117	-86	-17	39	
Conductivity (mS/cm)	0.673	0.493	0.491	0.480	0.486	
Turbidity (NTU)	11.6	12.6	23.4	7.5	6.9	
Dissolved O (mg/L)	11.87	3.96	3.81	3.67	3.15	
Volume Purged (L)	2.88	1.49	1.84	2.06	2.24	
Tot Vol Purged (L)		4.4	6.2	8.3	10.5	

SAMPLE TIME: Start 10:26 Stop 12:01

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.11

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-24 Port 2

Date/Weather: 1/23/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	485.00 ft bgs	7. Approx. Max Purge Volume:	4.30 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.20 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.60 ft bgs	10. Minimum Recommended Discard:	0.250 Liters
5. Port Interval:	135-145 ft bgs	11. Remaining Sample Volume:	2.94 Liters
6. Pump Depth:	109.60 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:16	0:21	0:25	
Start Time (24 hr)	7:47:00	8:02:00	8:21:00	8:45:30	9:15:00	
Stop Time (24 hr)	7:51:24	8:05:00	8:24:28	8:49:27	9:18:56	
Tot Purge Time (min)	4:24	3:00	3:28	3:57	3:56	
Temperature (°C)	12.59	12.78	12.90	12.48	12.45	
pH (S.U.)	7.09	7.42	7.58	7.77	7.70	
ORP	-130	-133	-106	-32	32	
Conductivity (mS/cm)	0.573	0.672	0.691	0.554	0.688	
Turbidity (NTU)	275.0	85.7	9.3	28.0	12.4	
Dissolved O (mg/L)	5.88	3.36	2.88	3.20	3.41	
Volume Purged (L)	3.40	2.08	2.45	2.93	3.03	
Tot Vol Purged (L)		5.5	7.9	10.9	13.9	

SAMPLE TIME: Start 10:26 Stop 12:01

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.15

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-24 Port 3

Date/Weather: 1/23/17 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	485.00 ft bgs	7. Approx. Max Purge Volume:	4.34 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.36 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.60 ft bgs	10. Minimum Recommended Discard:	0.252 Liters
5. Port Interval:	240-250 ft bgs	11. Remaining Sample Volume:	2.94 Liters
6. Pump Depth:	110.60 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:15	0:20	0:25	
Start Time (24 hr)	7:47:00	8:02:00	8:21:00	8:45:30	9:15:00	
Stop Time (24 hr)	7:51:29	8:05:22	8:24:40	8:49:17	9:19:06	
Tot Purge Time (min)	4:29	3:22	3:40	3:47	4:06	
Temperature (°C)	13.04	12.91	13.06	12.94	12.97	
pH (S.U.)	7.23	7.47	7.67	7.63	7.77	
ORP	-145	-144	-108	-24	23	
Conductivity (mS/cm)	0.565	0.571	0.569	0.691	0.567	
Turbidity (NTU)	364.0	24.0	39.2	25.1	31.8	
Dissolved O (mg/L)	4.55	3.15	3.61	3.33	3.84	
Volume Purged (L)	3.42	2.15	2.58	2.85	3.14	
Tot Vol Purged (L)		5.6	8.1	11.0	14.1	

SAMPLE TIME: Start 10:26 Stop 12:01

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.16

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-24 Port 4

Date/Weather: 1/23/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	485.00 ft bgs	7. Approx. Max Purge Volume:	4.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.56 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.60 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	332-342 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	111.60 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:15	0:20	0:25	
Start Time (24 hr)	7:47:00	8:02:00	8:21:00	8:45:30	9:15:00	
Stop Time (24 hr)	7:51:36	8:05:35	8:24:57	8:49:42	9:19:18	
Tot Purge Time (min)	4:30	3:35	3:57	4:12	4:18	
Temperature (°C)	11.67	12.08	12.31	12.34	12.86	
pH (S.U.)	7.22	7.55	7.80	7.85	7.84	
ORP	-79	-85	-18	-44	72	
Conductivity (mS/cm)	0.807	0.745	0.726	0.706	0.665	
Turbidity (NTU)	926.0	232.0	36.2	11.8	14.3	
Dissolved O (mg/L)	0.83	0.00	0.48	0.85	0.00	
Volume Purged (L)	3.50	2.37	2.75	3.12	3.30	
Tot Vol Purged (L)		5.9	8.6	11.7	15.0	

SAMPLE TIME: Start 10:26 Stop 12:01

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.17

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-24 Port 5

Date/Weather: 1/23/17 **Water Meter Serial #: YK**

Water FLUTe Information

1. Hole Depth:	485.00 ft bgs	7. Approx. Max Purge Volume:	4.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.72 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.60 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	370-380 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	112.60 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:15	0:20	0:25	
Start Time (24 hr)	7:47:00	8:02:00	8:21:00	8:45:30	9:15:00	
Stop Time (24 hr)	7:51:48	8:05:53	8:25:10	8:49:55	9:19:31	
Tot Purge Time (min)	4:48	3:33	4:10	4:25	4:31	
Temperature (°C)	12.26	12.60	12.75	12.73	12.85	
pH (S.U.)	7.38	7.60	7.82	7.87	7.88	
ORP	-88	-83	-24	37	66	
Conductivity (mS/cm)	0.621	0.596	0.586	0.592	0.584	
Turbidity (NTU)	1000+	178.0	17.8	16.4	20.1	
Dissolved O (mg/L)	1.08	0.91	0.40	0.00	0.00	
Volume Purged (L)	3.60	2.60	2.98	3.30	3.46	
Tot Vol Purged (L)		6.2	9.2	12.5	15.9	

SAMPLE TIME: Start 10:26 Stop 12:01

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.19

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-24 Port 6

Date/Weather: 1/23/17 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	485.00 ft bgs	7. Approx. Max Purge Volume:	4.47 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.88 Liters
3. Installation Date:		9. Sample Stroke:	3.19 Liters
4. Water Table	13.60 ft bgs	10. Minimum Recommended Discard:	0.259 Liters
5. Port Interval:	455-465 ft bgs	11. Remaining Sample Volume:	2.93 Liters
6. Pump Depth:	113.60 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 59 Recommended **SAMPLING** PSI 42

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:14	0:20	0:24	
Start Time (24 hr)	7:47:00	8:02:00	8:21:00	8:45:30	9:15:00	
Stop Time (24 hr)	7:51:57	8:06:13	8:25:30	8:50:11	9:39:34	
Tot Purge Time (min)	4:57	4:13	4:30	4:41	4:34	
Temperature (°C)	12.37	12.78	12.96	13.07	13.16	
pH (S.U.)	7.26	7.50	7.66	7.69	7.70	
ORP	-85	-85	47	43	73	
Conductivity (mS/cm)	0.835	0.897	0.924	0.897	0.895	
Turbidity (NTU)	429.0	161.0	27.1	28.6	30.0	
Dissolved O (mg/L)	3.77	31.70	3.49	1.13	200.00	
Volume Purged (L)	3.63	2.86	3.25	3.48	3.56	
Tot Vol Purged (L)		6.5	9.7	13.2	16.8	

SAMPLE TIME: Start 10:26 Stop 12:01

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.21

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-25 Port 1

Date/Weather: 1/20/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	474.00 ft bgs	7. Approx. Max Purge Volume:	4.23 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.92 Liters
3. Installation Date:		9. Sample Stroke:	3.14 Liters
4. Water Table	19.04 ft bgs	10. Minimum Recommended Discard:	0.234 Liters
5. Port Interval:	85-95 ft bgs	11. Remaining Sample Volume:	2.91 Liters
6. Pump Depth:	114.04 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 62 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:36	0:42	0:36		
Start Time (24 hr)	10:00:30	10:41:00	11:27:00	12:07:30		
Stop Time (24 hr)	10:04:45	10:44:48	11:31:07	12:11:31		
Tot Purge Time (min)	4:15	3:48	4:03	4:01		
Temperature (°C)	8.19	11.36	11.36	11.81		
pH (S.U.)	7.72	7.80	7.86	7.79		
ORP	85	47	78	87		
Conductivity (mS/cm)	0.329	0.448	0.456	0.388		
Turbidity (NTU)	21.0	15.2	8.2	15.9		
Dissolved O (mg/L)	3.02	4.21	4.38	4.41		
Volume Purged (L)	3.16	2.92	3.02	2.97		
Tot Vol Purged (L)		6.1	9.1	12.1		

SAMPLE TIME: Start_1501 Stop_1637

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.08**

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-25 Port 2

Date/Weather: 1/20/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	474.00 ft bgs	7. Approx. Max Purge Volume:	4.30 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.20 Liters
3. Installation Date:		9. Sample Stroke:	3.14 Liters
4. Water Table	19.04 ft bgs	10. Minimum Recommended Discard:	0.250 Liters
5. Port Interval:	175-185 ft bgs	11. Remaining Sample Volume:	2.89 Liters
6. Pump Depth:	115.04 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 62 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35	0:41	0:36		
Start Time (24 hr)	10:00:30	10:41:00	11:27:00	12:07:30		
Stop Time (24 hr)	10:05:09	10:45:15	11:31:28	12:11:56		
Tot Purge Time (min)	4:39	4:15	4:28	4:26		
Temperature (°C)	11.38	11.74	11.43	11.86		
pH (S.U.)	7.74	7.77	7.87	7.88		
ORP	68	45	77	86		
Conductivity (mS/cm)	0.422	0.424	0.420	0.419		
Turbidity (NTU)	13.9	22.1	5.2	1.5		
Dissolved O (mg/L)	5.01	4.80	4.00	3.83		
Volume Purged (L)	3.49	3.33	3.44	3.33		
Tot Vol Purged (L)		6.8	10.3	13.6		

SAMPLE TIME: Start_1501 Stop_1608

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.09

Analyses:

NOTES: Sulfur Odor

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-25 Port 3

Date/Weather: 1/20/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	474.00 ft bgs	7. Approx. Max Purge Volume:	4.34 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.36 Liters
3. Installation Date:		9. Sample Stroke:	3.14 Liters
4. Water Table	19.04 ft bgs	10. Minimum Recommended Discard:	0.252 Liters
5. Port Interval:	200-210 ft bgs	11. Remaining Sample Volume:	2.89 Liters
6. Pump Depth:	116.04 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 62 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35	0:41	0:35		
Start Time (24 hr)	10:00:30	10:41:00	11:27:06	12:07:30		
Stop Time (24 hr)	10:05:23	10:45:20	11:31:38	12:12:09		
Tot Purge Time (min)	4:53	4:20	4:38	4:39		
Temperature (°C)	11.78	12.00	12.13	12.21		
pH (S.U.)	7.62	7.70	7.80	7.81		
ORP	3	46	77	86		
Conductivity (mS/cm)	0.447	0.453	0.454	0.456		
Turbidity (NTU)	205.0	53.2	9.4	6.3		
Dissolved O (mg/L)	4.00	4.09	4.22	4.18		
Volume Purged (L)	3.61	3.43	3.46	3.44		
Tot Vol Purged (L)		7.0	10.5	13.9		

SAMPLE TIME: Start_1513 Stop_1636

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.09

Analyses:

NOTES: Sulfur Odor

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-25 Port 4

Date/Weather: 1/20/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	474.00 ft bgs	7. Approx. Max Purge Volume:	4.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.56 Liters
3. Installation Date:		9. Sample Stroke:	3.14 Liters
4. Water Table	19.04 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	275-285 ft bgs	11. Remaining Sample Volume:	2.89 Liters
6. Pump Depth:	117.04 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 62 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35	0:41	0:35		
Start Time (24 hr)	10:00:30	10:41:00	11:27:00	12:07:30		
Stop Time (24 hr)	10:05:23	10:45:28	11:31:44	12:12:16		
Tot Purge Time (min)	4:53	4:28	4:44	4:46		
Temperature (°C)	10.32	10.71	10.61	10.54		
pH (S.U.)	7.76	7.86	7.87	9.18		
ORP	-47	66	89	92		
Conductivity (mS/cm)	0.484	0.507	0.529	0.265		
Turbidity (NTU)	175.0	34.6	10.5	5.2		
Dissolved O (mg/L)	2.27	1.03	2.33	2.11		
Volume Purged (L)	3.59	3.49	3.52	3.51		
Tot Vol Purged (L)		7.1	10.6	14.1		

SAMPLE TIME: Start_____ Stop_____

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.09

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s): **Well ID and Port #:** MW-25 Port 5

Date/Weather: 1/20/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	474.00 ft bgs	7. Approx. Max Purge Volume:	4.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.72 Liters
3. Installation Date:		9. Sample Stroke:	3.14 Liters
4. Water Table	19.04 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	345-355 ft bgs	11. Remaining Sample Volume:	2.89 Liters
6. Pump Depth:	118.04 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 62 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35	0:41	0:35		
Start Time (24 hr)	10:00:30	10:41:00	11:27:00	12:07:30		
Stop Time (24 hr)	10:05:32	10:45:30	11:31:45	12:12:17		
Tot Purge Time (min)	5:02	4:30	4:45	4:47		
Temperature (°C)	11.15	11.44	11.65	11.66		
pH (S.U.)	7.74	7.89	7.95	8.01		
ORP	-74	45	79	101		
Conductivity (mS/cm)	0.429	0.432	0.416	0.419		
Turbidity (NTU)	340.0	204.0	9.1	4.1		
Dissolved O (mg/L)	1.20	2.00	1.85	1.59		
Volume Purged (L)	3.70	3.52	3.58	3.52		
Tot Vol Purged (L)		7.2	10.8	14.3		

SAMPLE TIME: Start_1524 Stop_1637

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.09**

Analyses:

NOTES: Sulfur Odor (purge 1)

Duplicate sample collected for VOC

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-25 Port 6

Date/Weather: 1/20/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	474.00 ft bgs	7. Approx. Max Purge Volume:	4.47 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.88 Liters
3. Installation Date:		9. Sample Stroke:	3.14 Liters
4. Water Table	19.04 ft bgs	10. Minimum Recommended Discard:	0.259 Liters
5. Port Interval:	435-445 ft bgs	11. Remaining Sample Volume:	2.88 Liters
6. Pump Depth:	119.04 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 62 Recommended **SAMPLING** PSI 44

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:35	0:41	0:29		
Start Time (24 hr)	10:00:36	10:41:00	11:27:00	12:01:30		
Stop Time (24 hr)	10:05:33	10:45:45	11:32:00	12:12:31		
Tot Purge Time (min)	5:03	4:45	5:00	5:01		
Temperature (°C)	11.57	11.88	11.46	12.23		
pH (S.U.)	7.70	7.89	7.98	7.97		
ORP	-86	15	77	100		
Conductivity (mS/cm)	0.402	0.384	0.391	0.378		
Turbidity (NTU)	445.0	1000.0	89.5	46.2		
Dissolved O (mg/L)	1.69	0.88	0.61	0.54		
Volume Purged (L)	3.70	3.66	3.67	3.69		
Tot Vol Purged (L)		7.4	11.0	14.7		

SAMPLE TIME: Start_1524_____ Stop_1628____

Add'l Samples (circle): DUP MS/MSD Lab Rep.
Other _____

Estimated Recovery Rate (L/MIN): 0.11

Analyses: _____

NOTES: Sulfur Odor (purge 1)

MS/MSD Sample collected for VOC

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-26 Port 1

Date/Weather: 1/20/2017 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	496.00 ft bgs	7. Approx. Max Purge Volume:	4.23 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	16.92 Liters
3. Installation Date:		9. Sample Stroke:	3.22 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.234 Liters
5. Port Interval:	95-105 ft bgs	11. Remaining Sample Volume:	2.98 Liters
6. Pump Depth:	105.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:15	0:25	0:37	
Start Time (24 hr)	7:20:30	7:34:00	7:51:00	8:19:00	8:59:00	
Stop Time (24 hr)	7:23:27	7:35:51	7:53:13	8:21:35	9:01:48	
Tot Purge Time (min)	2:57	1:51	2:13	2:35	2:48	
Temperature (°C)	11.13	11.40	11.36	12.04	11.92	
pH (S.U.)	6.87	7.44	7.57	7.75	7.82	
ORP	-117	-79	-32	15	64	
Conductivity (mS/cm)	0.493	0.431	0.416	0.412	0.424	
Turbidity (NTU)	144.0	123.0	34.50	16.50	21.0	
Dissolved O (mg/L)	3.91	3.81	3.99	4.01	3.88	
Volume Purged (L)	2.74	1.40	1.79	2.47	2.54	
Tot Vol Purged (L)		4.1	5.9	8.4	10.9	

SAMPLE TIME: Start 0940 Stop 1115

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.10

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-26 Port 2

Date/Weather: 1/20/2017 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	496.00 ft bgs	7. Approx. Max Purge Volume:	4.30 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.20 Liters
3. Installation Date:		9. Sample Stroke:	3.22 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.250 Liters
5. Port Interval:	175-185 ft bgs	11. Remaining Sample Volume:	2.97 Liters
6. Pump Depth:	106.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:14	0:25	0:37	
Start Time (24 hr)	7:29:30	7:34:00	7:51:00	8:19:00	8:59:00	
Stop Time (24 hr)	7:23:33	7:36:06	7:53:22	8:21:46	8:01:58	
Tot Purge Time (min)	3:03	2:06	2:22	2:46	2:58	
Temperature (°C)	11.80	11.00	12.34	12.26	12.49	
pH (S.U.)	7.12	7.92	7.59	7.76	7.76	
ORP	-150	-148	-78	-8	55	
Conductivity (mS/cm)	0.370	0.362	0.351	0.379	0.398	
Turbidity (NTU)	132.0	140.0	62.30	32.60	37.8	
Dissolved O (mg/L)	4.01	3.51	4.43	4.71	4.22	
Volume Purged (L)	2.76	1.57	1.94	2.51	2.63	
Tot Vol Purged (L)		4.3	6.3	8.8	11.4	

SAMPLE TIME: Start 0940 Stop 1115

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.11

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-26 Port 3

Date/Weather: 1/20/2017 **Water Meter Serial #: PG**

Water FLUTe Information

1. Hole Depth:	496.00 ft bgs	7. Approx. Max Purge Volume:	4.34 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.36 Liters
3. Installation Date:		9. Sample Stroke:	3.22 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.252 Liters
5. Port Interval:	255-265 ft bgs	11. Remaining Sample Volume:	2.97 Liters
6. Pump Depth:	107.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:20	0:25	0:36	
Start Time (24 hr)	7:20:30	7:34:00	7:57:00	8:19:00	8:59:00	
Stop Time (24 hr)	7:23:46	7:36:14	7:53:40	8:22:01	9:02:07	
Tot Purge Time (min)	3:16	2:14	2:40	3:01	3:07	
Temperature (°C)	12.76	12.73	12.93	12.88	12.98	
pH (S.U.)	7.09	7.38	7.59	7.80	7.82	
ORP	-142	-127	-98	-17	39	
Conductivity (mS/cm)	0.330	0.316	0.325	0.317	0.320	
Turbidity (NTU)	38.4	25.5	11.40	15.90	25.5	
Dissolved O (mg/L)	4.40	4.07	4.57	3.81	301.00	
Volume Purged (L)	2.97	1.60	2.18	2.73	2.73	
Tot Vol Purged (L)		4.6	6.7	9.5	12.2	

SAMPLE TIME: Start 0940 Stop 1115

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.11

Analyses:

NOTES: Sulfur Odor (purge 1 and 2)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-26 Port 4

Date/Weather: 1/20/2017 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	496.00 ft bgs	7. Approx. Max Purge Volume:	4.39 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.56 Liters
3. Installation Date:		9. Sample Stroke:	3.22 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	305-320 ft bgs	11. Remaining Sample Volume:	2.96 Liters
6. Pump Depth:	108.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Purge Vol. / Parameter	1	2	3	4	5	Notes
Recovery Time		0:10	0:14	0:25	0:36	
Start Time (24 hr)	7:20:30	7:34:00	7:51:00	8:19:00	8:59:00	
Stop Time (24 hr)	7:23:45	7:36:26	7:53:47	8:22:10	8:02:14	
Tot Purge Time (min)	3:25	2:26	2:47	3:10	3:14	
Temperature (°C)	9.90	11.68	11.03	11.14	11.65	
pH (S.U.)	7.30	7.42	7.64	7.95	7.92	
ORP	-1	-36	39	84	106	
Conductivity (mS/cm)	0.576	0.366	0.366	0.365	0.340	
Turbidity (NTU)	0.0	4.0	10.20	3.70	3.0	
Dissolved O (mg/L)	4.66	0.96	0.61	0.44	0.32	
Volume Purged (L)	2.97	1.80	2.26	2.81	2.83	
Tot Vol Purged (L)		4.8	7.0	9.8	12.7	

SAMPLE TIME: Start 0940 Stop 1115

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.13**

Analyses:

NOTES: Sulfur Odor (purge 1)

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-26 Port 5

Date/Weather: 1/20/2017 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	496.00 ft bgs	7. Approx. Max Purge Volume:	4.43 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.72 Liters
3. Installation Date:		9. Sample Stroke:	3.22 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	385-395 ft bgs	11. Remaining Sample Volume:	2.96 Liters
6. Pump Depth:	109.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		0:10	0:14	0:25	0:36	
Start Time (24 hr)	7:20:30	7:34:00	7:51:00	8:19:00	8:59:00	
Stop Time (24 hr)	7:24:00	7:36:52	7:54:00	8:22:20	8:02:23	
Tot Purge Time (min)	3:30	2:52	3:00	3:20	3:23	
Temperature (°C)	12.08	12.18	10.86	12.29	12.13	
pH (S.U.)	7.28	7.37	7.74	7.80	7.91	
ORP	-27	-46	16	80	99	
Conductivity (mS/cm)	0.540	0.448	0.416	0.446	0.444	
Turbidity (NTU)	46.8	22.0	5.30	3.90	8.6	
Dissolved O (mg/L)	3.03	0.30	0.00	0.00	0.00	
Volume Purged (L)	2.96	2.11	2.37	2.89	2.84	
Tot Vol Purged (L)		5.1	7.4	10.3	13.2	

SAMPLE TIME: Start 0940 Stop 1115

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.14

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-26 Port 6

Date/Weather: 1/20/2017 **Water Meter Serial #:** YK

Water FLUTe Information

1. Hole Depth:	496.00 ft bgs	7. Approx. Max Purge Volume:	4.47 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.88 Liters
3. Installation Date:		9. Sample Stroke:	3.22 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.259 Liters
5. Port Interval:	455-465 ft bgs	11. Remaining Sample Volume:	2.96 Liters
6. Pump Depth:	110.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		10:01	14:06	24:51	36:36	
Start Time (24 hr)	7:20:30	7:34:00	7:51:00	8:19:00	8:59:00	
Stop Time (24 hr)	7:23:59	7:36:54	7:54:09	8:22:24	8:02:27	
Tot Purge Time (min)	3:29	2:54	3:09	3:24	3:27	
Temperature (°C)	12.50	12.64	12.82	12.78	12.82	
pH (S.U.)	7.10	7.32	7.67	7.72	7.77	
ORP	-48	-52	22	80	103	
Conductivity (mS/cm)	0.543	0.525	0.523	0.526	0.527	
Turbidity (NTU)	115.0	205.0	31.00	23.90	30.1	
Dissolved O (mg/L)	0.80	0.88	0.00	0.21	0.00	
Volume Purged (L)	0.00	2.26	2.62	2.95	2.99	
Tot Vol Purged (L)		2.3	4.9	7.8	10.8	

SAMPLE TIME: Start 0940 Stop 1115

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): 0.15

Analyses:

NOTES: MS/MSD Sample Collected for all analyses

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-27 Port 1

Date/Weather: 1/23/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	480.00 ft bgs	7. Approx. Max Purge Volume:	4.31 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.24 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.237 Liters
5. Port Interval:	85-95 ft bgs	11. Remaining Sample Volume:	3.02 Liters
6. Pump Depth:	106.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time			22:19	22:03		
Start Time (24 hr)	13:34:00	10:48:00	14:13:00	14:39:00		
Stop Time (24 hr)	13:38:36	10:50:41	14:16:57	14:42:56		
Tot Purge Time (min)	4:36	2:41	3:57	3:56		
Temperature (°C)	11.69	11.77	11.86	12.26		
pH (S.U.)	7.51	7.58	7.86	8.04		
ORP	-177	-162	-109	3		
Conductivity (mS/cm)	0.423	0.404	0.392	0.417		
Turbidity (NTU)	31.7	37.7	18.8	11.4		
Dissolved O (mg/L)	3.81	3.77	3.20	3.60		
Volume Purged (L)	3.64	1.66	2.91	2.89		
Tot Vol Purged (L)		5.3	8.2	11.1		

SAMPLE TIME: Start 1511 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): 0.07

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-27 Port 2

Date/Weather: 1/23/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	480.00 ft bgs	7. Approx. Max Purge Volume:	4.38 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.52 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.250 Liters
5. Port Interval:	180-190 ft bgs	11. Remaining Sample Volume:	3.00 Liters
6. Pump Depth:	107.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		09:08	22:01	21:44		
Start Time (24 hr)	13:34:00	13:48:00	14:13:00	14:39:00		
Stop Time (24 hr)	13:38:52	13:50:59	14:17:16	14:43:14		
Tot Purge Time (min)	4:52	2:59	4:16	4:14		
Temperature (°C)	12.18	12.28	12.13	12.28		
pH (S.U.)	7.46	7.63	7.78	7.86		
ORP	-180	-162	-108	5		
Conductivity (mS/cm)	0.463	0.465	0.468	0.474		
Turbidity (NTU)	33.4	25.4	24.4	17.2		
Dissolved O (mg/L)	4.10	3.11	4.24	3.54		
Volume Purged (L)	3.83	1.66	2.91	3.17		
Tot Vol Purged (L)		5.5	8.4	11.6		

SAMPLE TIME: Start 1511 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.14**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-27 Port 3

Date/Weather: 1/23/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	480.00 ft bgs	7. Approx. Max Purge Volume:	4.42 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.68 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.252 Liters
5. Port Interval:	225-235 ft bgs	11. Remaining Sample Volume:	3.00 Liters
6. Pump Depth:	108.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		08:56	21:44	21:28		
Start Time (24 hr)	13:34:00	13:48:00	14:13:00	14:39:00		
Stop Time (24 hr)	13:39:04	13:51:16	14:17:32	14:43:29		
Tot Purge Time (min)	5:09	3:16	4:32	4:29		
Temperature (°C)	11.36	10.67	10.66	11.42		
pH (S.U.)	7.63	7.83	7.94	8.20		
ORP	-135	-116	-54	25		
Conductivity (mS/cm)	0.450	0.369	0.346	0.339		
Turbidity (NTU)	399.0	1.7	2.4	0.0		
Dissolved O (mg/L)	1.10	2.52	1.66	0.88		
Volume Purged (L)	3.89	1.66	2.91	3.30		
Tot Vol Purged (L)		5.6	8.5	11.8		

SAMPLE TIME: Start 1511 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.16**

Analyses:

NOTES:

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:** _____

Sampler(s): _____ **Well ID and Port #:** MW-27 Port 4

Date/Weather: 1/23/17 **Water Meter Serial #:** _____

Water FLUTe Information

1. Hole Depth:	480.00 ft bgs	7. Approx. Max Purge Volume:	4.46 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	17.84 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.254 Liters
5. Port Interval:	370-380 ft bgs	11. Remaining Sample Volume:	3.00 Liters
6. Pump Depth:	109.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		08:45	21:15	21:03		
Start Time (24 hr)	13:34:00	13:48:00	14:13:00	14:39:00		
Stop Time (24 hr)	13:39:15	13:51:45	14:17:57	14:43:56		
Tot Purge Time (min)	5:15	3:45	4:57	4:56		
Temperature (°C)	11.24	11.57	11.85	11.00		
pH (S.U.)	7.76	7.79	7.97	8.10		
ORP	-139	-122	-63	-18		
Conductivity (mS/cm)	0.470	0.456	0.445	0.437		
Turbidity (NTU)	52.0	36.9	13.4	16.7		
Dissolved O (mg/L)	2.00	2.18	1.99	1.72		
Volume Purged (L)	4.03	1.66	2.91	3.67		
Tot Vol Purged (L)		5.7	8.6	12.3		

SAMPLE TIME: Start 1511 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other _____

Estimated Recovery Rate (L/MIN): **0.16**

Analyses: _____

NOTES: _____

WATER FLUTE PURGE LOG

Project Name: CDE OU3 Groundwater Sampling **Project Number:**

Sampler(s):

Well ID and Port #: MW-27 Port 5

Date/Weather: 1/23/17 **Water Meter Serial #:**

Water FLUTe Information

1. Hole Depth:	480.00 ft bgs	7. Approx. Max Purge Volume:	4.51 Liters
2. Hole Diameter:	6.00 in	8. Approx. 4x Purge Volume	18.04 Liters
3. Installation Date:		9. Sample Stroke:	3.25 Liters
4. Water Table	10.00 ft bgs	10. Minimum Recommended Discard:	0.257 Liters
5. Port Interval:	460-470 ft bgs	11. Remaining Sample Volume:	3.00 Liters
6. Pump Depth:	110.00 ft bgs	12. Initial Port Depth to Water	ft bgs

Water Quality Readings

Recommended **PURGE** PSI 58 Recommended **SAMPLING** PSI 41

Parameter \ Purge Vol.	1	2	3	4	5	Notes
Recovery Time		08:37	20:47	20:50		
Start Time (24 hr)	13:34:00	13:48:00	14:13:00	14:39:00		
Stop Time (24 hr)	13:39:23	13:52:13	14:18:10	14:44:09		
Tot Purge Time (min)	5:23	4:13	5:10	5:09		
Temperature (°C)	11.95	12.15	12.11	12.07		
pH (S.U.)	7.57	7.64	7.84	7.88		
ORP	-136	-112	-47	25		
Conductivity (mS/cm)	0.475	0.476	0.464	0.461		
Turbidity (NTU)	83.6	89.3	50.3	34.6		
Dissolved O (mg/L)	3.30	1.39	1.11	1.83		
Volume Purged (L)	4.06	1.66	3.72	3.80		
Tot Vol Purged (L)		5.7	9.4	13.2		

SAMPLE TIME: Start 1511 Stop 1634

Add'l Samples (circle): DUP MS/MSD Lab Rep.

Other

Estimated Recovery Rate (L/MIN): **0.18**

Analyses:

NOTES:

Round 2: July and August 2017

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: CDE-OU3
DATE: 7-11-17
WEATHER: 82°, partly cloudy

CONSULTING FIRM: LBG
FIELD PERSONNEL: AG, DC

MONITOR WELL #: MW-01A
WELL PERMIT #: ____
WELL DEPTH: ____
WELL DIAMETER: ____

WATER QUALITY METER & SERIAL No.: 21911 / U263UE7G
SCREENED/OPEN INTERVAL: ____
PID BACKGROUND: ____
PID BENEATH OUTER CAP: ____
PID BENEATH INNER CAP: ____
PUMP INTAKE DEPTH: 37 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 9.34 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
08:26	8.31	NA	0.697	NA	77	NA	14.0	NA	49.4	NA	18.27	NA	400	9.80
08:31	8.24	0	0.656	0	[illegible]	0	0.3	0	32.2	0	17.58	0		
08:36	8.23	0	0.645	0	-12	0	0.0	0	21.2	0	17.38	0		
08:41	8.20	0	0.643	0	-17	0	0.0	0	17.3	0	17.34	0		
08:46	8.18	0	0.640	0	-17	0	0.0	0	12.1	0	17.29	0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: Sample @ 8:50
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: CDE-003
DATE: July 11, 2017
WEATHER:

CONSULTING FIRM: LB
FIELD PERSONNEL: DC, AG

MONITOR WELL #: MW2A
WELL PERMIT #:
WELL DEPTH:
WELL DIAMETER:
SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: Horiba U-52 (21270) / F ~~W62EGTDGT~~
PID BACKGROUND :
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP:

PUMP INTAKE DEPTH: 37 ft below TOC W62EGDGT
DEPTH TO WATER BEFORE PUMP INSTALLATION: 9.63 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)	
0850	6.55	NA	~~-110~~	~~0.592~~	-110	NA	5.89	NA	0.0	NA	17.97	NA	200	13.39	
0855	7.08	0	0.591	0	-160	0	7.16	0	0.0	0	17.83	0	200	13.39	
0900	7.32	0	0.587	0	-181	0	3.64	0	0.0	0	18.56	0	200	13.39	
0905	7.50	0	~~3.68~~	0.586	-197	0	3.56	0	0.0	0	18.37	0	200	13.39	
0910	7.60	0	~~3.28~~	0.585	-206	0	3.24	0	0.0	0	18.28	0	200	13.45	0910. Lowered pump rate due to drop in W.L
0915	7.68	0	0.580	0	-218	0	2.99	0	0.0	0	19.07	0	100	13.30	
0920	7.84	0	0.577	0	-230	0	2.62	0	0.0	0	19.45	0	100	12.95	
0925	7.96	0	0.575	0	-236	0	2.50	0	0.0	0	19.57	0	100	12.25	
0930	7.90	0	0.572	0	-237	0	2.07	0	0.0	0	19.80	0	100	11.99	
0935	7.90	0	0.572	0	-238	0	1.98	0	0.0	0	19.81	0	100	11.99	
0940	7.90	0	0.572	0	-239	0	1.92	0	0.0	0	19.80	0	100	11.99	
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			
		0		0		0		0		0		0			

COMMENTS: Sample @ 0945
ANALYSIS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity

a3991

LOW FLOW SAMPLING DATA SHEET

MS/MSD

SITE: Cornwall - Dubilier
DATE: 07-12-17
WEATHER: 79°F, Cloudy, 6 mph wind

CONSULTING FIRM:
FIELD PERSONNEL: G. Sherman

MONITOR WELL #: MW-03 WELL DEPTH: 32'
WELL PERMIT #: WELL DIAMETER: 2" SCREENED/OPEN INTERVAL: 17'-32'

WATER QUALITY METER & SERIAL No.: W62EGDGT
PID BACKGROUND :
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP:

PUMP INTAKE DEPTH: 25' ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 9.50 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
0917	7.45	NA	0.737	NA	20	NA	5.2	NA	0.0	NA	18.92	NA	100 mL	10.80
0922	7.48	0	0.738	0	-5	0	0.0	0	0.0	* 0	19.67	0	100	9.80
0927	7.67	0	0.695	0	-19	0	0.0	0	0.0	0	18.79	0	150	
0932	7.72	0	0.691	0	-4	0	0.0	0	0.0	0	19.69	0	150	
0937	7.75	0	0.688	0	-3	0	0.0	0	0.0	0	19.60	0	150	
0942	7.81	0	0.681	0	-13	0	0.0	0	0.0	0	19.45	0	150	
0947	7.84	0	0.674	0	-16	0	0.0	0	0.0	0	19.39	0	100	
0952	7.90	0	0.665	0	-18	0	0.0	0	0.0	0	19.40	0	100	
0956	7.93	0	0.661	0	-18	0	0.0	0	920	0	19.31	0	100	
1001	7.97	0	0.655	0	-24	0	0.0	0	1000	0	19.22	0	100	
1006	7.93	0	0.653	0	-26	0	0.0	0	999	0	19.20	0	100	
Sampler		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

No H2O Level Meter.

COMMENTS: Sample @ 1008
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

Pump on @ 0910 Purge Start @ 0912 * = Turbidity was greater than 1000
Pump off @ 1308

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: CDE
DATE: 07.12.2017
WEATHER: 85°F sunny

CONSULTING FIRM: LBG
FIELD PERSONNEL: P.T. A.G.

MONITOR WELL #: MW-01
WELL PERMIT #:
WELL DEPTH:
WELL DIAMETER:
SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: U-52 23481MC0K
PID BACKGROUND :
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP:

PUMP INTAKE DEPTH: 39 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 11.23 ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*		
10:45 ~~10:50~~	7.41	NA	0.542	NA	154	NA	0.87	NA	195	NA	22.54	NA	50	
10:50	7.45	0	0.549	0	153	0	0.70	0	176	0	22.92	0		11.41
10:55	7.41	0	0.552	0	151	0	0.71	0	181	0	23.71	0		
11:00	7.39	0	0.550	0	152	0	0.59	0	171	0	23.80	0		
11:05	7.41	0	0.551	0	151	0	0.59	0	160	0	24.27	0		11.35
11:10	7.37	0	0.553	0	151	0	0.55	0	158	0	24.90	0		11.34
11:15	7.41	0	0.554	0	148	0	0.54	0	145	0	25.56	0		
11:20	7.40	0	0.560	0	148	0	~~0.60~~	0.60 0	142	0	25.94	0		
11:25	7.45	0	0.558	0	140	0	0.55	0	140	0	26.29	0		11.32
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: Sample @ 11:30 → 14:00 VOC DUP
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

Volume PURGED = 1.5 gal

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: CDE-043
DATE: July 10, 2017
WEATHER: Sunny 80°F

CONSULTING FIRM: Louis Berger
FIELD PERSONNEL: DC, AG

MONITOR WELL #: MW5
WELL PERMIT #: _____
WELL DEPTH: _____
WELL DIAMETER: _____
SCREENED/OPEN INTERVAL: _____

WATER QUALITY METER & SERIAL No.: Horiba U-52 U2634E7G
PID BACKGROUND : _____
PID BENEATH OUTER CAP: _____
PID BENEATH INNER CAP: _____
PUMP INTAKE DEPTH: 35.0 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 10.26 ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
1355	8.29	NA	0.687	NA	300	NA	7.18	NA	5.5	NA	18.94	NA	500	10.33
1400	7.98	0	0.628	0	253	0	5.16	0	1.5	0	17.61	0		
1405	7.95	0	0.613	0	224	0	4.84	0	1.7	0	17.29	0		
1410	7.90	0	0.611	0	200	0	4.36	0	2.3	0	17.07	0		
1415	7.86	0	0.609	0	182	0	3.81	0	2.6	0	17.12	0		
1420	7.84	0	0.606	0	170	0	3.43	0	3.9	0	17.01	0		
1425	7.78	0	0.601	0	160	0	3.28	0	4.4	0	16.90	0		
1430	7.81	0	0.594	0	151	0	2.63	0	6.1	0	16.79	0		
1435	7.80	0	0.593	0	145	0	2.28	0	7.6	0	17.06	0		
1440	7.79	0	0.587	0	139	0	2.06	0	7.4	0	16.99	0		
1445	7.78	0	0.586	0	135	0	1.84	0	7.9	0	16.80	0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @ 14:48**
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: _____ CONSULTING FIRM: _____
DATE: _____ FIELD PERSONNEL: _____
WEATHER: _____

MONITOR WELL #: MW-6 WELL DEPTH: _____
WELL PERMIT #: _____ WELL DIAMETER: _____ SCREENED/OPEN INTERVAL: _____

WATER QUALITY METER & SERIAL No.: U2634E76
PID BACKGROUND : _____ PUMP INTAKE DEPTH: _____ ft below TOC
PID BENEATH OUTER CAP: _____
PID BENEATH INNER CAP: _____ DEPTH TO WATER BEFORE PUMP INSTALLATION: 11.78 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
0900	6.70	NA	2.21	NA	259	NA	6.87	NA	0.0	NA	12.72	NA	30	13.25
0915	6.67	0	2.19	0	253	0	6.67	0	0.0	0	23.05	0	30	13.25
0920		0		0		0		0		0		0		
0925	NO	READINGS		0		0		0		0		0		
0930		0		0		0		0		0		0		
0950	7.06	0	2.16	0	220	0	6.86	0	0.0	0	24.82	0	30	14.00
1000		0		0		0		0	0.0	0		0		14.00
1010	7.09	0	2.13	0	216	0	4.17	0	0.0	0	26.72	0	30	14.04
1020	7.10	0	2.12	0	212	0	4.11	0	0.0	0	24.24	0	30	14.05
1030	7.10	0	2.20	0	212	0	4.11	0	0.0	0	24.63	0	30	14.05
1040	7.30	0	2.20	0	210	0	4.12	0	0.0	0	24.85	0	30	14.05
1050	7.14	0	~~1.95~~ 2.19	0	~~20~~ 195	0	4.12	0	0.0	0	24.46	0	30	14.05
1100	7.12	0	2.13	0	185	0	4.12	0	0.0	0	24.05	0	30	14.05
1110	7.12	0	2.11	0	179	0	4.14	0	0.0	0	~~23.82~~ 23.89		30	14.05
1120	7.10	0	2.10	0	175	0	4.14	0	0.0	0	24.02	0	30	14.05
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

Taking Reading Every 10 min Because of Slow Purge Rate. 0921: cleaned flow cell

COMMENTS: Sample @ ~~1065~~
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

LOW FLOW SAMPLING DATA SHEET

SITE: Cornelius
DATE: 07-11-17
WEATHER: 83°F cloudy, 7 mph wind

CONSULTING FIRM:
FIELD PERSONNEL: G. Sherman

MONITOR WELL #: ~~MW-03~~ ~~MW-04~~ 07-15-17
WELL PERMIT #: MW-07
WELL DEPTH: 57.5
WELL DIAMETER: 2"
SCREENED/OPEN INTERVAL: 42-57.5

WATER QUALITY METER & SERIAL No.: Horiba Ias OPx++ / 2BY81M6K
PID BACKGROUND :
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP:
PUMP INTAKE DEPTH: 50 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: ~~10.26~~ 19.20 ft below TOC 07-11-17

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
1111	7.66	NA	1.47	NA	-147	NA	11.7	NA	0.0	NA	20.74	NA	200	19.51
1116	7.62	0	1.54	0	-163	0	2.7	0	0.0	0	20.25	0	200	19.52
1121	7.65	0	1.53	0	-180	0	0.0	0	1000	0	19.87	0	200	19.51
1126	7.70	0	1.51	0	-191	0	0.0	0	518	0	19.76	0	200	19.50
1131	7.74	0	1.47	0	-196	0	0.0	0	277	0	19.62	0	200	19.49
1136	7.67	0	1.40	0	-184	0	0.0	0	166	0	19.66	0	200	19.49
1141	7.54	0	1.41	0	-170	0	0.0	0	138	0	19.69	0	200	19.49
1146	7.47	0	1.43	0	-160	0	0.0	0	83.5	0	19.50	0	200	19.49
1151	7.44	0	1.44	0	-157	0	0.0	0	74.7	0	19.59	0	200	19.49
1156	7.41	0	1.46	0	-152	0	0.0	0	59.8	0	19.55	0	200	19.49
1201	7.39	0	1.47	0	-149	0	0.0	0	55.4	0	19.43	0	200	19.49
1206	7.37	0	1.48	0	-146	0	0.0	0	50.1	0	19.49	0	200	19.49
Sample		0		0		0		0		0		0		
		0		0		0		0		0		0		
- well is located close to a busy street		0		0		0		0		0		0		
I did not smell any contaminant fumes		0		0		0		0		0		0		
while sampling. Well does sit upwind of		0		0		0		0		0		0		
the street.		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: Sample @ 1205
ANALYSIS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity

1 of 2 Turbidity readings were above 1000

Pump On 1104 Purge Start 1106
Pump Off 1250

LOW FLOW SAMPLING
DATA SHEET

SHEET ___ OF___

SITE: CDE-OU3
DATE: 7-11-17
WEATHER: 82°, partly cloudy

CONSULTING FIRM: LBG
FIELD PERSONNEL: AG

MONITOR WELL #: MW08
WELL PERMIT #: _____
WELL DEPTH: _____
WELL DIAMETER: _____
SCREENED/OPEN INTERVAL: _____

WATER QUALITY METER & SERIAL No.: 21911
PID BACKGROUND : _____
PID BENEATH OUTER CAP: _____
PID BENEATH INNER CAP: _____

PUMP INTAKE DEPTH: 51.5 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 15.55 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
10:50	8.09	NA	1.08	NA	212	NA	12	NA	739	NA	18.63	NA	200	15.03
10:55	7.95	0	1.10	0	200	0	1.5	0	523	0	17.67	0		
11:00	7.91	0	1.10	0	186	0	0.0	0	489	0	17.54	0		
11:05	7.89	0	1.10	0	171	0	0.0	0	472	0	17.54	0		
11:10	7.86	0	1.10	0	162	0	0.0	0	425	0	17.56	0		
11:15	7.83	0	1.09	0	154	0	0.0	0	375	0	17.72	0		
11:20	7.81	0	1.07	0	149	0	0.0	0	264	0	17.26	0		
11:25	7.80	0	1.06	0	145	0	0.0	0	179	0	17.30	0		
11:30	7.79	0	1.05	0	142	0	0.0	0	124	0	17.16	0		
11:35	7.76	0	1.04	0	140	0	0.0	0	102	0	17.35	0		
11:40	7.75	0	1.03	0	137	0	0.0	0	69.6	0	17.19	0		P.T.
11:45	7.73	0	1.02	0	135	0	0.0	0	48.8	0	17.32	0		
11:50	7.71	0	1.02	0	133	0	0.0	0	43.7	0	17.39	0		
11:55	7.71	0	1.01	0	131	0	0.0	0	38.9	0	17.29	0		
12:00	7.70	0	1.01	0	130	0	0.0	0	35.1	0	17.32	0		
12:05	7.69	0	1.01	0	129	0	0.0	0	29.6	0	17.24	0		
12:10	7.69	0	1.01	0	128	0	0.0	0	28.2	0	17.28	0		
12:15	7.69	0	1.01	0	127	0	0.0	0	27.1	0	17.29	0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @** 12:20
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

~~Sample taken not @ time~~

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: CDE
DATE: July 11, 2017
WEATHER:

CONSULTING FIRM: LBG
FIELD PERSONNEL: PRT

MONITOR WELL #: MW-09
WELL PERMIT #:

WELL DEPTH:
WELL DIAMETER:
SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: W62B GDGT
PID BACKGROUND :
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP:

PUMP INTAKE DEPTH: 42.0 ft below TOC

DEPTH TO WATER BEFORE PUMP INSTALLATION: 14.26 ft below TOC

TIME	pH (pH units)		SPECIFIC CONDUCTIVITY (Ms/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE	DEPTH TO WATER
	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	reading	change*	(ml/min)	(ft below TOC)
1215	5.76	NA	1.81	NA	234	NA	3.42	NA	0.3	NA	~~23~~ 16	NA	200	14.45
1220	5.67	0	1.88	0	227	0	0.68	0	0.71	0	21.45	0		
1227	5.44	0	1.95	0	227	0	0.0	0	0.0	0	18.99	0		
1235	5.42	0	1.91	0	228	0	0.0	0	0.0	0	18.72	0		
1240	5.38	0	1.87	0	230	0	0.0	0	1.1	0	18.84	0		
1245	5.39	0	1.87	0	231	0	0.0	0	0.0	0	18.81	0		
1250	5.30	0	1.85	0	236	0	0.0	0	0.1	0	18.82	0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @** 1255
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

Purged ± 4 gal IDW

LOW FLOW SAMPLING DATA SHEET

SHEET ___ OF ___

SITE: CDE-OUB
DATE: July 10, 2017
WEATHER: Sunny 80°F

CONSULTING FIRM: Louis Berger
FIELD PERSONNEL: DC, AG

MONITOR WELL #: MW-10 WELL DEPTH: ____
WELL PERMIT #: ____ WELL DIAMETER: ____ SCREENED/OPEN INTERVAL: ____

WATER QUALITY METER & SERIAL No.: Horiba U-52 426JUE7G
PID BACKGROUND : ____
PID BENEATH OUTER CAP: ____
PID BENEATH INNER CAP: ____

PUMP INTAKE DEPTH: 45.0 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: ~~11.28~~ 12.26 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
1555	9.22	NA	0.297	NA	211	NA	5.05	NA	66.8	NA	20.14	NA	100	
1600	9.22	0	0.301	0	209	0	3.51	0	63.2	0	19.74	0		
1605	9.23	0	0.301	0	207	0	3.64	0	59.1	0	19.67	0		13.88
1610	9.23	0	0.301	0	205	0	3.10	0	53.5	0	19.72	0		13.9
1615	9.20	0	0.302	0	203	0	2.95	0	48.4	0	19.77	0		13.95
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: **Sample @** 16:25
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

LOW FLOW SAMPLING DATA SHEET

SHEET 1 OF ___

SITE: Cornuno
DATE: 07-11-17
WEATHER: 83°F, cloudy, 7 mph wind

CONSULTING FIRM: ___
FIELD PERSONNEL: G. Sherman

MONITOR WELL #: MW-11 WELL DEPTH: 59'
WELL PERMIT #: ___ WELL DIAMETER: 2"
SCREENED/OPEN INTERVAL: 34'-59'

WATER QUALITY METER & SERIAL No.: Horiba Tar0PXtt 2BY81M6K
PID BACKGROUND : ___
PID BENEATH OUTER CAP: ___
PID BENEATH INNER CAP: ___

PUMP INTAKE DEPTH: 47' ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 13.43 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
1353	7.16	NA	0.623	NA	29	NA	2.9	NA	234	NA	19.34	NA	200	14.99
1358	7.07	0	0.624	0	32	0	0.0	0	222	0	20.05	0	200	14.89
1403	7.19	0	0.633	0	15	0	0.0	0	263	0	19.86	0	200	14.90
1408	7.24	0	0.641	0	10	0	0.0	0	301	0	19.25	0	200	14.99
1413	7.22	0	0.638	0	17	0	0.0	0	276	0	19.50	0	200	14.97
1418	7.29	0	0.642	0	31	0	0.0	0	268	0	19.60	0	200	14.85
1423	7.37	0	0.644	0	32	0	0.0	0	235	0	19.29	0	200	14.90
1428	7.43	0	0.641	0	30	0	0.0	0	160	0	19.04	0	200	14.99
1433	7.47	0	0.639	0	27	0	0.0	0	125	0	19.00	0	200	15.02
1438	7.49	0	0.636	0	24	0	0.0	0	94.5	0	19.07	0	200	15.07
1443	7.50	0	0.631	0	23	0	0.0	0	75.8	0	19.40	0	200	14.94
1448	7.52	0	0.629	0	22	0	0.0	0	58.6	0	20.00	0	200	14.79
1453	7.54	0	0.633	0	19	0	0.0	0	51.6	0	19.75	0	200	14.80
1458	7.54	0	0.628	0	18	0	0.0	0	44.6	0	19.38	0	200	14.81
1503	7.53	0	0.628	0	16	0	0.0	0	41.6	0	19.38	0	200	14.80
1507	7.55	0	0.626	0	16	0	0.0	0	40.9	0	19.76	0	200	14.82
Sample		0		0		0		0		0		0		
		0		0		0		0		0		0		
- Heavy rain		0	Had	0	away	0	through	0	Sample	0		0		
- Lasted		0	approx	0	10	0	Am	0		0		0		
		0		0		0		0		0		0		
		0		0		0		0		0		0		

COMMENTS: Sample @ 1507 + Duplicate
ANALYSIS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity

Pump on @ 1345 Purge start 1348
Pump off @ 1658

LOW FLOW SAMPLING DATA SHEET

SHEET 1 OF ___

SITE: CDE-003 - Round II
DATE: 07-11-2017
WEATHER:

CONSULTING FIRM:
FIELD PERSONNEL: PRT

MONITOR WELL #: MW-12 WELL DEPTH:
WELL PERMIT #: WELL DIAMETER: SCREENED/OPEN INTERVAL:

WATER QUALITY METER & SERIAL No.: ~~W62BGDGT~~ U263UE7G
PID BACKGROUND :
PID BENEATH OUTER CAP:
PID BENEATH INNER CAP:

PUMP INTAKE DEPTH: 48 ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 14.91 ft below TOC

TIME	pH (pH units) reading	pH change*	SPECIFIC CONDUCTIVITY (Ms/cm) reading	SPECIFIC CONDUCTIVITY change*	REDOX POTENTIAL (mv) reading	REDOX POTENTIAL change*	DISSOLVED OXYGEN (mg/l) reading	DISSOLVED OXYGEN change*	TURBIDITY (NTU) reading	TURBIDITY change*	TEMPERATURE (degrees C) reading	TEMPERATURE change*	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)	
1440	7.32	NA	2.00	NA	130	NA	1.91	NA	0.0	NA	21.13	NA	140	15.16	Turbid water
1445	7.28	0	2.05	0	113	0	1.59	0	0.0	0	22.91	0	140	15.18	1450 Clean flow thru cell
1450	8.00	0	0.00	0	112	0	7.14	0	231	0	25.52	0	140		
1455	7.33	0	1.99	0	75	0	1.37	0	0.0	0	21.42	0	140	15.19	
1500	7.23	0	2.06	0	53	0	0.45	0	0.0	0	20.54	0	~~14~~	~~15.19~~	
1505	7.20	0	2.07	0	52	0	0.00	0	0.0	0	20.32	0			
1510	7.19	0	2.08	0	52	0	0.0	0	1000	0	20.42	0			
1515	7.20	0	2.10	0	54	0	0.0	0	904	0	20.56	0			moved to shade of van
1521	6.78	0	0.001	0	142	0	7.29	0	410	0	24.72	0			
1525	7.29	0	2.15	0	65	0	0.23	0	378	0	20.48	0			
1530	7.22	0	2.17	0	65	0	0.00	0	334	0	20.33	0			
1535	7.20	0	2.18	0	67	0	0.00	0	279	0	20.43	0			
1540	7.19	0	2.20	0	70	0	0.00	0	235	0	20.55	0			cleaned out cell
1545	7.19	0	2.21	0	74	0	0.00	0	228	0	20.31	0			
1550	7.18	0	2.22	0	77	0	0.00	0	171	0	19.99	0			
1555	7.17	0	2.23	0	79	0	0.00	0	158	0	19.95	0			
1600	7.15	0	2.25	0	84	0	0.00	0	105	0	20.01	0			
1605	7.16	0	2.25	0	84	0	0.00	0	89	0	19.99	0			
1621	7.20	0	2.27	0	95	0	0.00	0	59.9	0	19.56	0			
1626	7.14	0	2.27	0	96	0	0.00	0	49.9	0	19.27	0			
1630	7.14	0	2.27	0	97	0	0.00	0	50.0	0	19.26	0			
		0		0		0		0		0		0			

COMMENTS: Sample @ ~~1605~~ 16:15
ANALYSIS:

***INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity**

PURGED ± 4 gal

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	1

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	24 - 29	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.82	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.19
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.38

Purge #	1	2	3	4	5
Temperature (°C)	19.25	16.21			
pH (S.U.)	7.20	6.65			
Conductivity (mS/cm)	0.512	0.513			
ORP (mV)	182	205			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	2.60	1.01			
Start Time (hh:mm:ss)	8:45:25	9:15:57			
Stop Time (hh:mm:ss)	8:51:59	9:20:45			
Tot Purge Time (hh:mm:ss)	0:06:34	0:04:48			
Volume Purged (L)	4.480	4.810			
Tot Vol Purged (L)		9.290			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:51	**End Time** (hh:mm:ss):	10:51

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	2

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	33 - 43	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.79	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.30
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.60

Purge #	1	2	3	4	5
Temperature (°C)	17.78	14.88			
pH (S.U.)	9.17	7.85			
Conductivity (mS/cm)	0.615	0.562			
ORP (mV)	153	142			
Turbidity (NTU)	27.4	25.0			
Dissolved O (mg/L)	2.25	1.82			
Start Time (hh:mm:ss)	8:15:00	9:00:42			
Stop Time (hh:mm:ss)	8:19:48	9:05:28			
Tot Purge Time (hh:mm:ss)	0:04:48	0:04:46			
Volume Purged (L)	4.960	5.000			
Tot Vol Purged (L)		9.960			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:52	**End Time** (hh:mm:ss):	10:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	3

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	46 - 56	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.77	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.35
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.70

Purge #	1	2	3	4	5
Temperature (°C)	17.43	15.11			
pH (S.U.)	7.46	6.75			
Conductivity (mS/cm)	0.534	0.497			
ORP (mV)	254	194			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	4.71	2.34			
Start Time (hh:mm:ss)	8:15:00	9:00:42			
Stop Time (hh:mm:ss)	8:19:49	9:05:23			
Tot Purge Time (hh:mm:ss)	0:04:49	0:04:41			
Volume Purged (L)	4.950	4.940			
Tot Vol Purged (L)		9.890			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:53	**End Time** (hh:mm:ss):	10:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	4

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	59 - 64	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.76	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.39
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.78

Purge #	1	2	3	4	5
Temperature (°C)	16.43	14.41			
pH (S.U.)	8.79	7.74			
Conductivity (mS/cm)	0.567	0.563			
ORP (mV)	159	143			
Turbidity (NTU)	26.9	24.6			
Dissolved O (mg/L)	2.84	2.76			
Start Time (hh:mm:ss)	8:15:00	9:00:42			
Stop Time (hh:mm:ss)	8:19:59	9:05:48			
Tot Purge Time (hh:mm:ss)	0:04:59	0:05:06			
Volume Purged (L)	4.830	5.000			
Tot Vol Purged (L)		9.830			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:04	**End Time** (hh:mm:ss):	11:06

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	5

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	67 - 77	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.79	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.43
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.86

Purge #	1	2	3	4	5
Temperature (°C)	15.91	14.98			
pH (S.U.)	6.80	6.68			
Conductivity (mS/cm)	0.488	0.489			
ORP (mV)	198	197			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	2.66	1.14			
Start Time (hh:mm:ss)	8:45:25	9:15:57			
Stop Time (hh:mm:ss)	8:50:18	9:20:55			
Tot Purge Time (hh:mm:ss)	0:04:53	0:04:58			
Volume Purged (L)	5.705	5.310			
Tot Vol Purged (L)		11.015			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:45	**End Time** (hh:mm:ss):	12:06

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	6

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	100 - 105	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.62	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.96

Purge #	1	2	3	4	5
Temperature (°C)	21.93	16.57			
pH (S.U.)	6.70	7.88			
Conductivity (mS/cm)	0.601	0.602			
ORP (mV)	193	138			
Turbidity (NTU)	161	25.2			
Dissolved O (mg/L)	9.21	2.67			
Start Time (hh:mm:ss)	8:45:25	9:15:57			
Stop Time (hh:mm:ss)	8:50:35	9:21:09			
Tot Purge Time (hh:mm:ss)	0:05:10	0:05:12			
Volume Purged (L)	5.400	5.170			
Tot Vol Purged (L)		10.570			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:06	**End Time** (hh:mm:ss):	11:04

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	7

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	112 - 117	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.60	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.04

Purge #	1	2	3	4	5
Temperature (°C)	16.81	14.85			
pH (S.U.)	6.59	6.64			
Conductivity (mS/cm)	0.546	0.549			
ORP (mV)	209	195			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	3.22	1.60			
Start Time (hh:mm:ss)	8:49:06	9:15:57			
Stop Time (hh:mm:ss)	8:54:21	9:21:11			
Tot Purge Time (hh:mm:ss)	0:05:15	0:05:14			
Volume Purged (L)	5.540	5.255			
Tot Vol Purged (L)		10.795			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:47	**End Time** (hh:mm:ss):	11:35

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT1	–	8

Louis Berger

1. Background Information

Date:	7/17/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	135 - 140	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.55	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.12

Purge #	1	2	3	4	5
Temperature (°C)	16.21	15.25			
pH (S.U.)	7.97	7.81			
Conductivity (mS/cm)	0.703	0.694			
ORP (mV)	164	137			
Turbidity (NTU)	25.2	24.9			
Dissolved O (mg/L)	2.66	2.79			
Start Time (hh:mm:ss)	8:45:25	9:15:57			
Stop Time (hh:mm:ss)	8:50:40	9:21:20			
Tot Purge Time (hh:mm:ss)	0:05:15	0:05:23			
Volume Purged (L)	5.260	5.250			
Tot Vol Purged (L)		10.510			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:08	**End Time** (hh:mm:ss):	11:05

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	1

Louis Berger

1. Background Information

Date:	7/18/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	25 - 35	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.24	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.24
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	20.96

Purge #	1	2	3	4	5
Temperature (°C)	19.89	17.64			
pH (S.U.)	7.35	6.86			
Conductivity (mS/cm)	4.23	4.30			
ORP (mV)	309	90			
Turbidity (NTU)	6.0	0.0			
Dissolved O (mg/L)	1.41	7.15			
Start Time (hh:mm:ss)	7:59:40	8:17:30			
Stop Time (hh:mm:ss)	8:03:40	8:21:30			
Tot Purge Time (hh:mm:ss)	0:04:00	0:04:00			
Volume Purged (L)	4.000	4.050			
Tot Vol Purged (L)		8.050			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:59	**End Time** (hh:mm:ss):	9:45:57

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	2

Louis Berger

1. Background Information

Date:	7/18/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	40 - 50	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.24	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.35
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	21.40

Purge #	1	2	3	4	5
Temperature (°C)	18.21	18.07			
pH (S.U.)	7.21	7.12			
Conductivity (mS/cm)	1.05	1.93			
ORP (mV)	292	226			
Turbidity (NTU)	0.2	0.0			
Dissolved O (mg/L)	2.01	1.12			
Start Time (hh:mm:ss)	7:59:40	8:17:30			
Stop Time (hh:mm:ss)	8:03:42	8:21:35			
Tot Purge Time (hh:mm:ss)	0:04:02	0:04:05			
Volume Purged (L)	4.040	4.010			
Tot Vol Purged (L)		8.050			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:59	**End Time** (hh:mm:ss):	9:50

Sample Analytes and Bottles:

X	VOCs	40 mL Vial	X	Metals	500 mL HDPE		PCB Congeners	1L amber
X	SVOCs	1L amber	X	Pesticides	1L amber		Dioxins	1L amber
			X	PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	3

Louis Berger

1. Background Information

Date:	7/18/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	54 - 59	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.92	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.39
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	21.56

Purge #	1	2	3	4	5
Temperature (°C)	17.30	18.83	21.80		
pH (S.U.)	7.21	7.02	7.33		
Conductivity (mS/cm)	0.974	0.586	0.080		
ORP (mV)	298	79	137		
Turbidity (NTU)	0.0	16.4	7.4		
Dissolved O (mg/L)	1.52	5.31	4.26		
Start Time (hh:mm:ss)	7:59:40	8:17:30	8:40:55		
Stop Time (hh:mm:ss)	8:03:45	8:18:10	8:41:35		
Tot Purge Time (hh:mm:ss)	0:04:05	0:00:40	0:00:40		
Volume Purged (L)	3.940	0.460	0.430		
Tot Vol Purged (L)		4.400	4.830		
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):		**End Time** (hh:mm:ss):	

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

DTW 55.56 at 10:49

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	4

Louis Berger

1. Background Information

Date:	**7/18/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**70 - 75**	Installation Date:	6/9/2008
Concentration Level:	**low**	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.99	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.43
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	21.72

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.95	16.21			
pH (S.U.)	7.28	7.39			
Conductivity (mS/cm)	0.741	0.733			
ORP (mV)	264	213			
Turbidity (NTU)	1.2	0.0			
Dissolved O (mg/L)	1.30	1.23			
Start Time (hh:mm:ss)	7:59:40	8:17:30			
Stop Time (hh:mm:ss)	8:03:50	8:21:40			
Tot Purge Time (hh:mm:ss)	0:04:10	0:04:10			
Volume Purged (L)	4.050	4.030			
Tot Vol Purged (L)		8.080			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:02	**End Time** (hh:mm:ss):	9:49

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	5

Louis Berger

1. Background Information

Date:	7/18/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	97 - 107	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.97	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	21.92

Purge #	1	2	3	4	5
Temperature (°C)	17.54	18.16			
pH (S.U.)	8.93	7.28			
Conductivity (mS/cm)	0.746	0.741			
ORP (mV)	240	155			
Turbidity (NTU)	0.7	0.7			
Dissolved O (mg/L)	0.72	1.82			
Start Time (hh:mm:ss)	8:08:30	8:26:40			
Stop Time (hh:mm:ss)	8:12:45	8:30:45			
Tot Purge Time (hh:mm:ss)	0:04:15	0:04:05			
Volume Purged (L)	4.190	3.970			
Tot Vol Purged (L)		8.160			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:55	**End Time** (hh:mm:ss):	9:36:36

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	6

Louis Berger

1. Background Information

Date:	7/18/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	113 - 123	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.03	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	22.08

Purge #	1	2	3	4	5
Temperature (°C)	18.69	18.05			
pH (S.U.)	7.10	7.36			
Conductivity (mS/cm)	0.675	0.637			
ORP (mV)	239	207			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	1.76	2.08			
Start Time (hh:mm:ss)	8:08:30	8:26:40			
Stop Time (hh:mm:ss)	8:12:45	8:30:53			
Tot Purge Time (hh:mm:ss)	0:04:15	0:04:13			
Volume Purged (L)	4.110	4.070			
Tot Vol Purged (L)		8.180			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:55	**End Time** (hh:mm:ss):	9:51

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT2	–	7

Louis Berger

1. Background Information

Date:	7/18/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	127 - 137	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	22.24

Purge #	1	2	3	4	5
Temperature (°C)	17.14	16.67			
pH (S.U.)	8.95	7.40			
Conductivity (mS/cm)	0.639	0.626			
ORP (mV)	238	136			
Turbidity (NTU)	0.8	0.2			
Dissolved O (mg/L)	1.10	1.15			
Start Time (hh:mm:ss)	8:08:30	8:26:40			
Stop Time (hh:mm:ss)	8:12:55	8:31:05			
Tot Purge Time (hh:mm:ss)	0:04:25	0:04:25			
Volume Purged (L)	4.280	4.225			
Tot Vol Purged (L)		8.505			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:55	**End Time** (hh:mm:ss):	9:37:47

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

MW-17 1.9 feet = DTW

136-19 = 117 ft

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT3	–	1

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	27 - 37	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.45	Liner Head (f bgs):	0.97	Date:	7/26/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.28
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.56

Purge #	1	2	3	4	5
Temperature (°C)	15.83	15.70			
pH (S.U.)	7.32	7.07			
Conductivity (mS/cm)	2.00	1.78			
ORP (mV)	243	182			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	11:58:41	12:16:38			
Stop Time (hh:mm:ss)	12:02:51	12:20:56			
Tot Purge Time (hh:mm:ss)	0:04:10	0:04:18			
Volume Purged (L)	4.580	4.705			
Tot Vol Purged (L)		9.285			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	12:45:42	**End Time** (hh:mm:ss):	13:43:30

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT3	–	2

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	55 - 65	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.49	Liner Head (f bgs):	0.97	Date:	7/26/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.39
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.78

Purge #	1	2	3	4	5
Temperature (°C)	19.50	15.77			
pH (S.U.)	7.76	7.16			
Conductivity (mS/cm)	1.42	1.55			
ORP (mV)	155	216			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	11:58:41	12:16:38			
Stop Time (hh:mm:ss)	12:03:04	12:21:04			
Tot Purge Time (hh:mm:ss)	0:04:23	0:04:26			
Volume Purged (L)	4.620	4.640			
Tot Vol Purged (L)		9.260			
Odor Observations					
Visual Obervations		small specs			

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	12:45:42	**End Time** (hh:mm:ss):	13:43:05

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT3	–	3

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	90 - 105	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.23	Liner Head (f bgs):	0.97	Date:	7/26/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.43
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.86

Purge #	1	2	3	4	5
Temperature (°C)	15.56	15.99			
pH (S.U.)	7.33	7.20			
Conductivity (mS/cm)	1.01	1.05			
ORP (mV)	235	159			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	11:58:41	12:16:38			
Stop Time (hh:mm:ss)	12:03:05	12:21:03			
Tot Purge Time (hh:mm:ss)	0:04:24	0:04:25			
Volume Purged (L)	4.720	4.730			
Tot Vol Purged (L)		9.450			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	12:45:42	**End Time** (hh:mm:ss):	13:51:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

DTW 55.56 at 10:49

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT3	–	4

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	110 - 120	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.66	Liner Head (f bgs):	0.97	Date:	7/26/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.96

Purge #	1	2	3	4	5
Temperature (°C)	15.19				
pH (S.U.)	7.96				
Conductivity (mS/cm)	0.602				
ORP (mV)	146				
Turbidity (NTU)	0.0				
Dissolved O (mg/L)	0.00				
Start Time (hh:mm:ss)	11:58:41	12:16:38	12:54:57		
Stop Time (hh:mm:ss)	12:03:10	12:16:54	12:55:19		
Tot Purge Time (hh:mm:ss)	0:04:29	0:00:16	0:00:22		
Volume Purged (L)	4.660	0.110	0.090	0.110	
Tot Vol Purged (L)		4.770	4.860	4.970	
Odor Observations					
Visual Obervations		specks - granular dirt			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):		**End Time** (hh:mm:ss):	

Sample Analytes and Bottles:

	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

no water quality measurements were taken on second purge, not enough volume

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT3	–	5

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	124 - 134	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.25	Liner Head (f bgs):	0.97	Date:	7/26/2007

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.04

Purge #	1	2	3	4	5
Temperature (°C)	15.58	15.91			
pH (S.U.)	7.55	7.55			
Conductivity (mS/cm)	0.523	0.536			
ORP (mV)	226	171			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.19	0.00			
Start Time (hh:mm:ss)	11:58:41	12:16:38			
Stop Time (hh:mm:ss)	12:03:19	12:21:29			
Tot Purge Time (hh:mm:ss)	0:04:38	0:04:51			
Volume Purged (L)	4.860	5.145			
Tot Vol Purged (L)		10.005			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	13:12:10	**End Time** (hh:mm:ss):	13:50:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT3	–	6

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	138 - 148	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.36 8.30	Liner Head (f bgs):	3.12 0.97	Date:	7/10/2017 7/26/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.12

Purge #	1	2	3	4	5
Temperature (°C)	14.86	15.42			
pH (S.U.)	7.88	7.87			
Conductivity (mS/cm)	0.529	0.535			
ORP (mV)	153	192			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	11:58:41	12:16:38			
Stop Time (hh:mm:ss)	12:03:32	12:21:46			
Tot Purge Time (hh:mm:ss)	0:04:51	0:05:08			
Volume Purged (L)	4.850	4.620			
Tot Vol Purged (L)		9.470			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	13:12:10	**End Time** (hh:mm:ss):	13:51:56

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	1

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	27 - 37	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	6.02	Liner Head (f bgs):	1.15 bpvc	Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.21
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.42

Purge #	1	2	3	4	5
Temperature (°C)	15.77	19.14			
pH (S.U.)	7.86	7.30			
Conductivity (mS/cm)	0.657	0.649			
ORP (mV)	164	189			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	21.6%	0.96			
Start Time (hh:mm:ss)	13:17:24	13:33:45			
Stop Time (hh:mm:ss)	13:20:32	13:37:11			
Tot Purge Time (hh:mm:ss)	0:03:08	0:03:26			
Volume Purged (L)	4.085	4.070			
Tot Vol Purged (L)		8.155			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	14:02:00	**End Time** (hh:mm:ss):	14:44:52

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	2

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	46 - 56	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	4.81	Liner Head (f bgs):	1.15 bpvc	Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.32
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.64

Purge #	1	2	3	4	5
Temperature (°C)	14.81	19.28			
pH (S.U.)	7.77	7.65			
Conductivity (mS/cm)	0.624	0.609			
ORP (mV)	149	165			
Turbidity (NTU)	8.1	5.2			
Dissolved O (mg/L)	21.4%	1.14			
Start Time (hh:mm:ss)	13:17:24	12:16:38			
Stop Time (hh:mm:ss)	13:20:30	12:21:04			
Tot Purge Time (hh:mm:ss)	0:03:06	0:04:26			
Volume Purged (L)	4.120	4.180			
Tot Vol Purged (L)		8.300			
Odor Observations					
Visual Obervations		small specs			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	14:02:00	**End Time** (hh:mm:ss):	14:44:21

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	3

Louis Berger

1. Background Information

Date:	7/19/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	61 - 66	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	4.81	Liner Head (f bgs):		Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.36
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.72

Purge #	1	2	3	4	5
Temperature (°C)	22.29	21.41			
pH (S.U.)	8.06	7.44			
Conductivity (mS/cm)	0.632	0.619			
ORP (mV)	111	168			
Turbidity (NTU)	2.3	4.4			
Dissolved O (mg/L)	10.0	8.3			
Start Time (hh:mm:ss)	13:28:13	13:43:55			
Stop Time (hh:mm:ss)	13:31:52	13:47:24			
Tot Purge Time (hh:mm:ss)	0:03:39	0:03:29			
Volume Purged (L)	3.550	4.010			
Tot Vol Purged (L)		7.560			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	14:33	**End Time** (hh:mm:ss):	14:59

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

DTW 55.56 at 10:49

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	4

Louis Berger

1. Background Information

Date:	7/19/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	83 - 88	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	4.89	Liner Head (f bgs):		Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.41
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.82

Purge #	1	2	3	4	5
Temperature (°C)	21.43	20.18			
pH (S.U.)	8.50	8.29			
Conductivity (mS/cm)	0.583	0.579			
ORP (mV)	50	151			
Turbidity (NTU)	29.3	20.6			
Dissolved O (mg/L)	25.30	18.7			
Start Time (hh:mm:ss)	13:28:13	13:43:55			
Stop Time (hh:mm:ss)	13:31:34	13:47:26			
Tot Purge Time (hh:mm:ss)	0:03:21	0:03:31			
Volume Purged (L)	3.260	4.285			
Tot Vol Purged (L)		7.545			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	14:33	**End Time** (hh:mm:ss):	15:23

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	5

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	91 - 106	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	4.90	Liner Head (f bgs):	1.15 bpvc	Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.45
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.90

Purge #	1	2	3	4	5
Temperature (°C)	14.82	17.37			
pH (S.U.)	7.55	7.03			
Conductivity (mS/cm)	0.599	0.671			
ORP (mV)	146	177			
Turbidity (NTU)	5.5	0.0			
Dissolved O (mg/L)	29.6%	1.80			
Start Time (hh:mm:ss)	13:17:24	13:33:45			
Stop Time (hh:mm:ss)	13:20:50	13:37:31			
Tot Purge Time (hh:mm:ss)	0:03:26	0:03:46			
Volume Purged (L)	4.375	4.500			
Tot Vol Purged (L)		8.875			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	13:57:31	**End Time** (hh:mm:ss):	14:47:56

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	6

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	111 - 116	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	4.88	Liner Head (f bgs):	1.15 bpvc	Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.49
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.98

Purge #	1	2	3	4	5
Temperature (°C)	15.77	17.15			
pH (S.U.)	7.75	7.65			
Conductivity (mS/cm)	0.590	0.580			
ORP (mV)	144	163			
Turbidity (NTU)	3.3	4.0			
Dissolved O (mg/L)	22.8%	1.91			
Start Time (hh:mm:ss)	13:17:24	13:33:45			
Stop Time (hh:mm:ss)	13:20:53	13:37:31			
Tot Purge Time (hh:mm:ss)	0:03:29	0:03:46			
Volume Purged (L)	4.270	4.610			
Tot Vol Purged (L)		8.880			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	13:51:31	**End Time** (hh:mm:ss):	14:44:06

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT4	–	7

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	128 - 138	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	4.72	Liner Head (f bgs):	1.15 bpvc	Date:	

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.53
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.06

Purge #	1	2	3	4	5
Temperature (°C)	17.22	16.72			
pH (S.U.)	7.53	7.08			
Conductivity (mS/cm)	0.617	0.616			
ORP (mV)	155	167			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	20%	1.02			
Start Time (hh:mm:ss)	13:17:24	13:33:45			
Stop Time (hh:mm:ss)	13:20:53	13:37:39			
Tot Purge Time (hh:mm:ss)	0:03:29	0:03:54			
Volume Purged (L)	4.475	4.650			
Tot Vol Purged (L)		9.125			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	13:57:31	**End Time** (hh:mm:ss):	14:32:22

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT5	–	1

Louis Berger

1. Background Information

Date:	7/21/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	24 - 34	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.08	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.28
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.56

Purge #	1	2	3	4	5
Temperature (°C)	17.75	18.64			
pH (S.U.)	8.01	7.43			
Conductivity (mS/cm)	0.570				
ORP (mV)	147	184			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	1.05	1.14			
Start Time (hh:mm:ss)	10:45:16	11:00:36			
Stop Time (hh:mm:ss)	10:50:07	11:05:25			
Tot Purge Time (hh:mm:ss)	0:04:51	0:04:49			
Volume Purged (L)	4.860	4.810			
Tot Vol Purged (L)		9.670			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	11:32:16	**End Time** (hh:mm:ss):	12:25:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT5	–	2

Louis Berger

1. Background Information

Date:	7/21/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	37 - 47	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.63	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.39
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.78

Purge #	1	2	3	4	5
Temperature (°C)	18.13	15.83			
pH (S.U.)	7.44	7.25			
Conductivity (mS/cm)	0.523	0.497			
ORP (mV)	140	143			
Turbidity (NTU)	48.0	46.2			
Dissolved O (mg/L)	1.62	3.90			
Start Time (hh:mm:ss)	10:45:16	11:00:36			
Stop Time (hh:mm:ss)	10:50:08	11:05:27			
Tot Purge Time (hh:mm:ss)	0:04:52	0:04:51			
Volume Purged (L)	4.830	5.050			
Tot Vol Purged (L)		9.880			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	11:32:16	**End Time** (hh:mm:ss):	12:34:59

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT5	–	3

1. Background Information

Date:	7/21/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	50 - 60	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.16	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.43
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.86

Purge #	1	2	3	4	5
Temperature (°C)	16.64	18.89			
pH (S.U.)	7.89	7.37			
Conductivity (mS/cm)	0.556	0.599			
ORP (mV)	143	177			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	2.20	0.91			
Start Time (hh:mm:ss)	10:45:16	11:00:36			
Stop Time (hh:mm:ss)	10:50:11	11:05:31			
Tot Purge Time (hh:mm:ss)	0:04:55	0:04:55			
Volume Purged (L)	4.470	4.980			
Tot Vol Purged (L)		9.450			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	11:32:16	**End Time** (hh:mm:ss):	12:37:23

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

DTW 55.56 at 10:49

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT5	–	4

Louis Berger

1. Background Information

Date:	7/24/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	77 - 87	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.71	Liner Head (f bgs):	0.5	Date:	7/11/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.96

Purge #	1	2	3	4	5
Temperature (°C)	18.38	17.91			
pH (S.U.)	7.33	7.42			
Conductivity (mS/cm)	0.543	0.437			
ORP (mV)	229	218			
Turbidity (NTU)	0.0	1.7			
Dissolved O (mg/L)	0.00	0.66			
Start Time (hh:mm:ss)	8:04:11	8:17:20			
Stop Time (hh:mm:ss)	8:09:22	8:22:34			
Tot Purge Time (hh:mm:ss)	0:05:11	0:05:14			
Volume Purged (L)	5.350	5.160			
Tot Vol Purged (L)		10.510			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:40:32	**End Time** (hh:mm:ss):	10:13:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT5	–	5

Louis Berger

1. Background Information

Date:	7/24/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	93 - 98	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.56	Liner Head (f bgs):	0.5	Date:	7/11/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.04

Purge #	1	2	3	4	5
Temperature (°C)	17.80	17.81			
pH (S.U.)	7.38	7.67			
Conductivity (mS/cm)	0.494	0.456			
ORP (mV)	301	246			
Turbidity (NTU)	0.8	0.9			
Dissolved O (mg/L)	0.50	1.48			
Start Time (hh:mm:ss)	8:04:11	8:17:20			
Stop Time (hh:mm:ss)	8:09:11	8:22:34			
Tot Purge Time (hh:mm:ss)	0:05:00	0:05:14			
Volume Purged (L)	5.050	5.140			
Tot Vol Purged (L)		10.190			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:40:32	**End Time** (hh:mm:ss):	9:09:43

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT5	–	6

Louis Berger

1. Background Information

Date:	7/24/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	120 - 130	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.47	Liner Head (f bgs):	0.8	Date:	7/11/2017

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.12

Purge #	1	2	3	4	5
Temperature (°C)	15.80	14.90			
pH (S.U.)	7.39	7.34			
Conductivity (mS/cm)	0.433	0.425			
ORP (mV)	233	221			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.42	0.74			
Start Time (hh:mm:ss)	8:04:11	8:17:20			
Stop Time (hh:mm:ss)	8:09:24	8:22:34			
Tot Purge Time (hh:mm:ss)	0:05:13	0:05:14			
Volume Purged (L)	5.275	5.180			
Tot Vol Purged (L)		10.455			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:40:32	**End Time** (hh:mm:ss):	9:37:26

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT6	–	1

Louis Berger

1. Background Information

Date:	7/13/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	26 - 36	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.92	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.32
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.64

Purge #	1	2	3	4	5
Temperature (°C)	17.81	15.84			
pH (S.U.)	7.18	7.12			
Conductivity (mS/cm)	0.507	0.485			
ORP (mV)	-13	-120			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.09			
Start Time (hh:mm:ss)	8:56:42	9:25:05			
Stop Time (hh:mm:ss)	9:02:20	9:30:20			
Tot Purge Time (hh:mm:ss)	0:05:38	0:05:15			
Volume Purged (L)	5.750	5.000			
Tot Vol Purged (L)		10.750			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:57	**End Time** (hh:mm:ss):	11:33

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT6	–	2

Louis Berger

1. Background Information

Date:	7/13/2017	Sampler(s):	DC, AG
Port Interval (f bgs):	75 - 85	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.33	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.43
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.86

Purge #	1	2	3	4	5
Temperature (°C)	14.95	15.57			
pH (S.U.)	6.94	7.31			
Conductivity (mS/cm)	0.508	0.504			
ORP (mV)	261	179			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.05	0.78			
Start Time (hh:mm:ss)	8:56:40	9:25:02			
Stop Time (hh:mm:ss)	9:01:55	9:30:17			
Tot Purge Time (hh:mm:ss)	0:05:15	0:05:15			
Volume Purged (L)	5.800	5.210			
Tot Vol Purged (L)		11.010			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:06	**End Time** (hh:mm:ss):	10:52

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT6	–	3

Louis Berger

1. Background Information

Date:	7/13/2017	Sampler(s):	DC, AG
Port Interval (f bgs):	93 - 103	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.27	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.96

Purge #	1	2	3	4	5
Temperature (°C)	15.30	14.86			
pH (S.U.)	7.14	7.00			
Conductivity (mS/cm)	0.527	0.523			
ORP (mV)	-14	-71			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	1.60	1.08			
Start Time (hh:mm:ss)	8:56:42	9:25:05			
Stop Time (hh:mm:ss)	9:02:12	9:30:30			
Tot Purge Time (hh:mm:ss)	0:05:30	0:05:25			
Volume Purged (L)	5.800	5.500			
Tot Vol Purged (L)		11.300			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:00	**End Time** (hh:mm:ss):	10:45

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

DTW 55.56 at 10:49

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT6	–	4

Louis Berger

1. Background Information

Date:	7/13/2017	Sampler(s):	DC, AG
Port Interval (f bgs):	107 - 117	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.75	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.04

Purge #	1	2	3	4	5
Temperature (°C)	15.17	14.91			
pH (S.U.)	6.96	7.33			
Conductivity (mS/cm)	0.523	0.518			
ORP (mV)	277	176			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.46	0.71			
Start Time (hh:mm:ss)	8:56:40	9:25:02			
Stop Time (hh:mm:ss)	9:02:17	9:30:40			
Tot Purge Time (hh:mm:ss)	0:05:37	0:05:38			
Volume Purged (L)	5.630	5.440			
Tot Vol Purged (L)		11.070			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:01	**End Time** (hh:mm:ss):	11:57

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT6	–	5

Louis Berger

1. Background Information

Date:	7/13/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	128 - 138	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.22	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.12

Purge #	1	2	3	4	5
Temperature (°C)	15.25	14.74			
pH (S.U.)	7.10	7.25			
Conductivity (mS/cm)	0.505	0.506			
ORP (mV)	112	85			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	1.92	5.04			
Start Time (hh:mm:ss)	9:06:10	9:30:50			
Stop Time (hh:mm:ss)	9:12:00	9:36:10			
Tot Purge Time (hh:mm:ss)	0:05:50	0:05:20			
Volume Purged (L)	4.490	5.500			
Tot Vol Purged (L)		9.990			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	53	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:05	**End Time** (hh:mm:ss):	10:53

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT7	–	1

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	25 - 35	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	18

2. Water FLUTe Dilation Check

Interval Head (f bgs):	17.88	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	3.75
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	7.50

Purge #	1	2	3	4	5
Temperature (°C)	16.98	15.21			
pH (S.U.)	7.25	7.35			
Conductivity (mS/cm)	0.474	0.446			
ORP (mV)	276	262			
Turbidity (NTU)	4.0	12.5			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	8:51:55	9:07:37			
Stop Time (hh:mm:ss)	8:55:33	9:11:33			
Tot Purge Time (hh:mm:ss)	0:03:38	0:03:56			
Volume Purged (L)	4.075	3.560			
Tot Vol Purged (L)		7.635			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	43	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:39:20	**End Time** (hh:mm:ss):	10:33:50

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT7	–	2

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	45 - 55	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	18

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.15	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	3.86
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	7.72

Purge #	1	2	3	4	5
Temperature (°C)	16.56	15.07	14.86		
pH (S.U.)	7.15	7.68	7.67		
Conductivity (mS/cm)	0.425	0.433	0.455		
ORP (mV)	-18	138	154		
Turbidity (NTU)	3.1	4.1	0.7		
Dissolved O (mg/L)	0.00	0.00	0.00		
Start Time (hh:mm:ss)	8:51:55	9:07:37	9:26:07		
Stop Time (hh:mm:ss)	8:55:43	9:09:30	9:28:15		
Tot Purge Time (hh:mm:ss)	0:03:48	0:01:53	0:02:08		
Volume Purged (L)	3.950	1.460	1.670		
Tot Vol Purged (L)		5.410	7.080		
Odor Observations					
Visual Obervations	specks of something, not product	specks of organic debirs	specks again		

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	43	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:53:12	**End Time** (hh:mm:ss):	11:16:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT7	–	3

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	65 - 75	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	18

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.44	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	3.91
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	7.82

Purge #	1	2	3	4	5
Temperature (°C)	15.36	15.18			
pH (S.U.)	7.43	7.44			
Conductivity (mS/cm)	0.404	0.399			
ORP (mV)	271	259			
Turbidity (NTU)	0.0	0.3			
Dissolved O (mg/L)	0.16	0.25			
Start Time (hh:mm:ss)	8:51:55	9:07:37			
Stop Time (hh:mm:ss)	8:55:44	9:11:43			
Tot Purge Time (hh:mm:ss)	0:03:49	0:04:06			
Volume Purged (L)	4.005	3.725			
Tot Vol Purged (L)		7.730			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	43	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:39:20	**End Time** (hh:mm:ss):	10:41:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

DTW 55.56 at 10:49

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT7	–	4

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	100 - 110	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	18

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.57	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	3.95
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	7.90

Purge #	1	2	3	4	5
Temperature (°C)	14.17	14.08			
pH (S.U.)	7.34	7.49			
Conductivity (mS/cm)	0.465	0.463			
ORP (mV)	-19	140			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	8:51:55	9:07:37			
Stop Time (hh:mm:ss)	8:55:56	9:11:50			
Tot Purge Time (hh:mm:ss)	0:04:01	0:04:13			
Volume Purged (L)	4.000	3.650			
Tot Vol Purged (L)		7.650			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	43	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:39:20	**End Time** (hh:mm:ss):	10:41:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT7	–	5

Louis Berger

1. Background Information

Date:	7/26/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	130 - 140	Installation Date:	6/9/2008
Concentration Level:	low	Water Table (f bgs):	18

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.65	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	3.59
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	7.18

Purge #	1	2	3	4	5
Temperature (°C)	15.43	14.87			
pH (S.U.)	7.42	7.50			
Conductivity (mS/cm)	0.441	0.456			
ORP (mV)	259	257			
Turbidity (NTU)	17.1	5.2			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	8:51:55	9:07:37			
Stop Time (hh:mm:ss)	8:55:58	9:11:51			
Tot Purge Time (hh:mm:ss)	0:04:03	0:04:14			
Volume Purged (L)	4.200	3.675			
Tot Vol Purged (L)		7.875			
Odor Observations					
Visual Obervations	yellow tinge				

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	43	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:53:12	**End Time** (hh:mm:ss):	10:37:17

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	1

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	17 - 27	Installation Date:	
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.89	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.24
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.48

Purge #	1	2	3	4	5
Temperature (°C)	17.87	15.80	17.25		
pH (S.U.)	8.49	7.51	7.60		
Conductivity (mS/cm)	0.313	0.629	0.619		
ORP (mV)	-68	91	105		
Turbidity (NTU)	23.1	43.9	32.4		
Dissolved O (mg/L)	0.00	0.00	0.00		
Start Time (hh:mm:ss)	7:45:00	8:20:54	8:40:30		
Stop Time (hh:mm:ss)	7:53:27	8:25:00	8:44:57		
Tot Purge Time (hh:mm:ss)	0:08:27	0:04:06	0:04:27		
Volume Purged (L)	4.425	4.160	3.240		
Tot Vol Purged (L)		8.585	11.825		
Odor Observations					
Visual Obervations	murky brown water	murky brown water			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:07:15	**End Time** (hh:mm:ss):	9:55:11

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

changed nitrogen tank during purge 1

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	2

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	31 - 41	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.09	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.35
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.70

Purge #	1	2	3	4	5
Temperature (°C)	17.52	15.18	14.87		
pH (S.U.)	7.14	7.40	7.26		
Conductivity (mS/cm)	0.500	0.806	0.030		
ORP (mV)	-41	195	201		
Turbidity (NTU)	42.7	67.2	8.0		
Dissolved O (mg/L)	0.28	0.61	0.00		
Start Time (hh:mm:ss)	7:45:00	8:20:54	8:40:30		
Stop Time (hh:mm:ss)	7:53:22	8:25:05	8:44:31		
Tot Purge Time (hh:mm:ss)	0:08:22	0:04:11	0:04:01		
Volume Purged (L)	4.575	3.950	4.355		
Tot Vol Purged (L)		8.525	12.880		
Odor Observations					
Visual Obervations	murky brown water				

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:07:15	**End Time** (hh:mm:ss):	10:52:07

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

chnaged nitrogen tank during purge 1

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	3

Louis Berger

1. Background Information

Date:	**8/2/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**44 - 54**	Installation Date:	6/9/2008
Concentration Level:	**Trace**	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.44	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.39
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.78

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.01	14.93	15.13		
pH (S.U.)	7.78	7.52	7.64		
Conductivity (mS/cm)	0.631	0.648	0.643		
ORP (mV)	-67	92	105		
Turbidity (NTU)	0.9	1.0	0.0		
Dissolved O (mg/L)	0.00	0.00	0.00		
Start Time (hh:mm:ss)	7:45:00	8:20:54	8:40:30		
Stop Time (hh:mm:ss)	7:53:52	8:25:05	8:44:30		
Tot Purge Time (hh:mm:ss)	0:08:52	0:04:11	0:04:00		
Volume Purged (L)	4.600	4.090	4.095		
Tot Vol Purged (L)		8.690	12.785		
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:07:15	**End Time** (hh:mm:ss):	10:25:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

changed nitrogen tank during purge 1

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	4

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	57 - 62	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	DRY	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):		Purge Volume (L):	5.43
Suggested Number of Purges:		Approx. 2x Purge Volume (L):	10.86

Purge #	1	2	3	4	5
Temperature (°C)					
pH (S.U.)					
Conductivity (mS/cm)					
ORP (mV)					
Turbidity (NTU)					
Dissolved O (mg/L)					
Start Time (hh:mm:ss)					
Stop Time (hh:mm:ss)					
Tot Purge Time (hh:mm:ss)					
Volume Purged (L)					
Tot Vol Purged (L)					
Odor Observations					
Visual Obervations					

NO FLOW
DID NOT PURGE

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 4WLALFEW

4. Sample Collection

Sampling Pressure (psi):		Volume Discarded (L):	0.400
Start Time (hh:mm:ss):		**End Time** (hh:mm:ss):	

Sample Analytes and Bottles:

	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	5

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	87 - 97	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.25	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.96

Purge #	1	2	3	4	5
Temperature (°C)	15.73	14.39	14.89		
pH (S.U.)	7.69	7.61	7.82		
Conductivity (mS/cm)	0.373	0.382	0.356		
ORP (mV)	-65	81	94		
Turbidity (NTU)	0.5	1.7	0.0		
Dissolved O (mg/L)	0.00	0.60	0.00		
Start Time (hh:mm:ss)	7:45:00	8:20:54	8:40:30		
Stop Time (hh:mm:ss)	7:53:55	8:25:26	8:44:45		
Tot Purge Time (hh:mm:ss)	0:08:55	0:04:32	0:04:15		
Volume Purged (L)	4.180	4.130	4.150		
Tot Vol Purged (L)		8.310	12.460		
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:20:38	**End Time** (hh:mm:ss):	10:02:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

changed nitrogen tank during purge 1

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	6

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	107 - 112	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.35	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.04

Purge #	1	2	3	4	5
Temperature (°C)	15.56	14.34	14.66		
pH (S.U.)	7.44	7.61	7.80		
Conductivity (mS/cm)	0.387	0.382	0.380		
ORP (mV)	-33	179	182		
Turbidity (NTU)	0.0	0.0	0.0		
Dissolved O (mg/L)	0.00	0.44	0.00		
Start Time (hh:mm:ss)	7:45:00	8:20:54	8:40:30		
Stop Time (hh:mm:ss)	7:53:50	8:25:31	8:44:45		
Tot Purge Time (hh:mm:ss)	0:08:50	0:04:37	0:04:15		
Volume Purged (L)	4.750	3.695	3.905		
Tot Vol Purged (L)		8.445	12.350		
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:20:38	**End Time** (hh:mm:ss):	10:08:22

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

nitrogen tank changed during purge 1

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	7

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	135 - 145	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.44	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.12

Purge #	1	2	3	4	5
Temperature (°C)	14.83	14.97	15.38		
pH (S.U.)	7.54	7.61	7.73		
Conductivity (mS/cm)	0.460	0.446	0.445		
ORP (mV)	32	87	98		
Turbidity (NTU)	2.2	3.2	2.2		
Dissolved O (mg/L)	0.00	0.24	0.21		
Start Time (hh:mm:ss)	7:55:49	8:20:54	8:40:30		
Stop Time (hh:mm:ss)	8:00:04	8:25:32	8:44:50		
Tot Purge Time (hh:mm:ss)	0:04:15	0:04:38	0:04:20		
Volume Purged (L)	4.340	4.120	4.225		
Tot Vol Purged (L)		8.460	12.685		
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	9:20:38	**End Time** (hh:mm:ss):	10:00:46

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	1

Louis Berger

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	17 - 27	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.89	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.24
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.48

Purge #	1	2	3	4	5
Temperature (°C)	14.41	14.11			
pH (S.U.)	7.50	7.51			
Conductivity (mS/cm)	0.704	0.689			
ORP (mV)	292	358			
Turbidity (NTU)	1.4	2.5			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	7:54:10	8:28:11			
Stop Time (hh:mm:ss)	7:58:09	8:32:11			
Tot Purge Time (hh:mm:ss)	0:03:59	0:04:00			
Volume Purged (L)	4.340	4.125			
Tot Vol Purged (L)		8.465			
Odor Observations					
Visual Obervations	murky brown water	murky brown water			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	M8US110A

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:50	**End Time** (hh:mm:ss):	9:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

resampling for VOCs only

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	2

Louis Berger

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	31 - 41	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.09	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.35
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.70

Purge #	1	2	3	4	5
Temperature (°C)	15.35	15.26			
pH (S.U.)	7.03	6.81			
Conductivity (mS/cm)	0.834	0.826			
ORP (mV)	286	273			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.52	1.05			
Start Time (hh:mm:ss)	7:54:10	8:28:11			
Stop Time (hh:mm:ss)	7:58:10	8:32:15			
Tot Purge Time (hh:mm:ss)	0:04:00	0:04:04			
Volume Purged (L)	3.800	3.750			
Tot Vol Purged (L)		7.550			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	YLXHW0G4

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	8:50	**End Time** (hh:mm:ss):	9:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

resampling for VOCs only

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	3

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	44 - 54	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.44	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.39
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.78

Purge #	1	2	3	4	5
Temperature (°C)	14.15	13.99			
pH (S.U.)	7.30	7.48			
Conductivity (mS/cm)	0.679	0.694			
ORP (mV)	275	362			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	7:54:10	8:28:11			
Stop Time (hh:mm:ss)	7:58:11	8:32:12			
Tot Purge Time (hh:mm:ss)	0:04:01	0:04:01			
Volume Purged (L)	4.420	4.210			
Tot Vol Purged (L)		8.630			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	M8US110A

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:05:00	**End Time** (hh:mm:ss):	10:15:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

resampling for VOCs only

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	5

Louis Berger

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	87 - 97	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.25	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.48
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	10.96

Purge #	1	2	3	4	5
Temperature (°C)	13.94	13.93			
pH (S.U.)	7.41	7.56			
Conductivity (mS/cm)	0.391	0.381			
ORP (mV)	271	361			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	7:54:10	8:28:11			
Stop Time (hh:mm:ss)	7:58:30	8:32:36			
Tot Purge Time (hh:mm:ss)	0:04:20	0:04:25			
Volume Purged (L)	4.460	4.290			
Tot Vol Purged (L)		8.750			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	M8US110A

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:05:00	**End Time** (hh:mm:ss):	10:15:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

resampling for VOCs only

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	6

Louis Berger

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	107 - 112	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.35	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.52
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.04

Purge #	1	2	3	4	5
Temperature (°C)	15.01	14.87			
pH (S.U.)	7.16	7.14			
Conductivity (mS/cm)	0.393	0.391			
ORP (mV)	278	258			
Turbidity (NTU)	0.3	0.0			
Dissolved O (mg/L)	0.87	0.62			
Start Time (hh:mm:ss)	7:54:10	8:28:11			
Stop Time (hh:mm:ss)	7:58:32	8:32:53			
Tot Purge Time (hh:mm:ss)	0:04:22	0:04:42			
Volume Purged (L)	4.325	4.580			
Tot Vol Purged (L)		8.905			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	YLXHW0G4

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:05:00	**End Time** (hh:mm:ss):	10:15:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

resampling for VOCs only

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

ERT8	–	7

Louis Berger

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	135 - 145	Installation Date:	6/9/2008
Concentration Level:	Trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.44	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	71	Purge Volume (L):	5.56
Suggested Number of Purges:	2	Approx. 2x Purge Volume (L):	11.12

Purge #	1	2	3	4	5
Temperature (°C)	13.98	13.87			
pH (S.U.)	7.30	7.43			
Conductivity (mS/cm)	0.422	0.468			
ORP (mV)	276	367			
Turbidity (NTU)	0.0	0.0			
Dissolved O (mg/L)	0.00	0.00			
Start Time (hh:mm:ss)	7:54:10	8:28:11			
Stop Time (hh:mm:ss)	7:58:34	8:32:53			
Tot Purge Time (hh:mm:ss)	0:04:24	0:04:42			
Volume Purged (L)	4.435	3.970			
Tot Vol Purged (L)		8.405			
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	M8US110A

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.400
Start Time (hh:mm:ss):	10:05:00	**End Time** (hh:mm:ss):	10:15:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

resampling for VOCs only

flow just stopped by purge 2

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **1**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**18 - 28**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.71	Liner Head (f bgs):	0.5	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.58
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.32

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	19.41	17.81	17.75	17.18	
pH (S.U.)	10.25	10.70	10.49	10.17	
Conductivity (mS/cm)	0.703	0.888	0.780	0.815	
ORP (mV)	50	7	7	22	
Turbidity (NTU)	20.6	0.0	0.0	0.0	
Dissolved O (mg/L)	9.0%	9.5%	1.74	1.09	
Start Time (hh:mm:ss)	7:33:50	7:54:50	8:21:23	8:35:26	
Stop Time (hh:mm:ss)	7:36:17	7:56:58	8:23:45	8:37:24	
Tot Purge Time (hh:mm:ss)	0:02:27	0:02:08	0:02:22	0:01:58	
Volume Purged (L)	2.790	2.590	2.690	2.160	
Tot Vol Purged (L)		5.380	8.070	10.230	
Odor Observations	Sulfuric				
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:05:49	**End Time** (hh:mm:ss):	10:03:38

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

quick connect port can be replaced, U-volt badly corroded

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **2**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**35 - 45**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.64	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.69
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.76

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.90	14.93		14.80	
pH (S.U.)	7.35	7.32	7.49	7.51	
Conductivity (mS/cm)	0.789	0.774	0.906	0.950	
ORP (mV)	-82	-76	-75	-24	
Turbidity (NTU)	45.7	44.2	43.8	43.3	
Dissolved O (mg/L)	13.6%	42.2%	0.37	1.17	
Start Time (hh:mm:ss)	7:33:50	7:54:50	8:21:23	8:35:26	
Stop Time (hh:mm:ss)	7:36:18	7:57:05	8:23:46	8:37:58	
Tot Purge Time (hh:mm:ss)	0:02:28	0:02:15	0:02:23	0:02:32	
Volume Purged (L)	3.000	2.750	3.000	2.480	
Tot Vol Purged (L)		5.750	8.750	11.230	
Odor Observations	sulfuric	sulfuric	less sulfuric		
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: WDLS2J1S

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:11:24	**End Time** (hh:mm:ss):	10:04:14

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

quick connect port can be replaced, U-volt badly corroded

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **3**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**63 - 73**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.57	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.73
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.77	15.99	16.30	15.78	
pH (S.U.)	8.60	9.28	8.92	9.00	
Conductivity (mS/cm)	0.577	0.618	0.630	0.655	
ORP (mV)	53	48	48	46	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	11.5%	10.7%	0.85	1.14	
Start Time (hh:mm:ss)	7:33:50	7:54:50	8:21:23	8:35:26	
Stop Time (hh:mm:ss)	7:36:27	7:57:14	8:23:49	8:37:49	
Tot Purge Time (hh:mm:ss)	0:02:37	0:02:24	0:02:26	0:02:23	
Volume Purged (L)	3.900	2.830	2.850	2.700	
Tot Vol Purged (L)		6.730	9.580	12.280	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:05:49	**End Time** (hh:mm:ss):	9:57:18

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

quick connect port can be replaced, U-volt badly corroded

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **4**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**95 - 105**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.39	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.78
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.12

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.11	14.97	14.78	14.85	
pH (S.U.)	7.43	7.44	7.65	7.68	
Conductivity (mS/cm)	0.498	0.519	0.519	0.536	
ORP (mV)	-52	-52	-62	-41	
Turbidity (NTU)	44.7	43.2	43.4	43.1	
Dissolved O (mg/L)	14.7%	10.7%	0.95	1.57	
Start Time (hh:mm:ss)	7:33:50	7:54:50	8:21:23	8:35:26	
Stop Time (hh:mm:ss)	7:36:20	7:57:17	8:23:53	8:37:50	
Tot Purge Time (hh:mm:ss)	0:02:30	0:02:27	0:02:30	0:02:24	
Volume Purged (L)	3.100	3.000	3.100	3.000	
Tot Vol Purged (L)		6.100	9.200	12.200	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS2J1S

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:11:24	**End Time** (hh:mm:ss):	10:02:33

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **5**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**115 - 125**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.33	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.82
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.28

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.46	18.38	17.29	17.08	
pH (S.U.)	8.14	8.30	8.46	8.16	
Conductivity (mS/cm)	0.454	0.553	0.569	0.560	
ORP (mV)	119	156	123	136	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	10.3%	1.70	1.32	1.55	
Start Time (hh:mm:ss)	7:42:45	8:11:31	8:28:05	8:42:16	
Stop Time (hh:mm:ss)	7:45:18	8:14:09	8:30:43	8:44:49	
Tot Purge Time (hh:mm:ss)	0:02:33	0:02:38	0:02:38	0:02:33	
Volume Purged (L)	3.000	3.010	2.910	2.780	
Tot Vol Purged (L)		6.010	8.920	11.700	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:05:49	**End Time** (hh:mm:ss):	9:56:16

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

quick connect port can be replaced, U-volt badly corroded

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **6**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**150 - 160**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.32	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.86
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.44

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.30	14.69	15.59	15.93	
pH (S.U.)	7.30	7.47	7.59	7.68	
Conductivity (mS/cm)	0.541	0.558	0.552	0.546	
ORP (mV)	-24	79	59	62	
Turbidity (NTU)	438	44.2	42.9	43.0	
Dissolved O (mg/L)	11.1%	0.89	0.99	1.67	
Start Time (hh:mm:ss)	7:42:45	8:11:31	8:28:05	8:42:16	
Stop Time (hh:mm:ss)	7:45:23	8:14:11	8:30:45	8:44:59	
Tot Purge Time (hh:mm:ss)	0:02:38	0:02:40	0:02:40	0:02:43	
Volume Purged (L)	3.065	2.990	3.170	3.050	
Tot Vol Purged (L)		6.055	9.225	12.275	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS2J1S

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:11:24	**End Time** (hh:mm:ss):	9:52:23

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-13 – **7**

Louis Berger

1. Background Information

Date:	**7/21/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**230 - 240**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	4

2. Water FLUTe Dilation Check

Interval Head (f bgs):	5.24	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	52	Purge Volume (L):	3.91
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.64

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.21	16.54	15.77	16.07	
pH (S.U.)	7.62	7.79	7.98	7.94	
Conductivity (mS/cm)	0.778	0.793	0.787	0.771	
ORP (mV)	177	156	132	137	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	9.1%	1.19	1.02	1.65	
Start Time (hh:mm:ss)	7:42:45	8:11:31	8:28:05	8:42:16	
Stop Time (hh:mm:ss)	7:45:43	8:14:21	8:30:55	8:45:02	
Tot Purge Time (hh:mm:ss)	0:02:58	0:02:50	0:02:50	0:02:46	
Volume Purged (L)	3.290		3.170	3.000	
Tot Vol Purged (L)		3.290	6.460	9.460	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:17:37	**End Time** (hh:mm:ss):	9:58:50

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

quick connect port can be replaced, U-volt badly corroded

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14S	–	1

Louis Berger

1. Background Information

Date:	7/25/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	30 - 35	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	13.51	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	34	Purge Volume (L):	1.39
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	5.56

Purge #	1	2	3	4	5
Temperature (°C)	17.10	17.30	17.53	17.76	
pH (S.U.)	7.51	7.52	7.63	7.62	
Conductivity (mS/cm)	0.616	0.720	0.736	0.769	
ORP (mV)	12	1	19	27	
Turbidity (NTU)	32.6	173	87.9	31.3	
Dissolved O (mg/L)	2.91	1.92	1.49	2.22	
Start Time (hh:mm:ss)	9:22:58	9:38:08	9:53:20	10:13:10	
Stop Time (hh:mm:ss)	9:23:16	9:38:48	9:53:54	10:13:48	
Tot Purge Time (hh:mm:ss)	0:00:18	0:00:40	0:00:34	0:00:38	
Volume Purged (L)	1.100	0.700	0.510	0.600	
Tot Vol Purged (L)		1.800	2.310	2.910	
Odor Observations		oil	strong oil	less strong oil	
Visual Obervations	sheen	sheen	sheen, specks of product	sheen, specks of product	

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	20	Volume Discarded (L):	0.200
Start Time (hh:mm:ss):	10:36:00	**End Time** (hh:mm:ss):	16:04:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

needs dry bag/vault cleanout
new port assembly, sheen coming in on samples
DTW: 10:10 28 ft btopf

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14S – **2**

Louis Berger

1. Background Information

Date:	**7/25/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**41 - 46**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	14.32	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	34	Purge Volume (L):	1.50
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	6.00

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.24	16.54	16.55	17.25	
pH (S.U.)	7.61	7.38	7.64	7.68	
Conductivity (mS/cm)	0.109	0.572	0.637	0.678	
ORP (mV)	124	120	116	119	
Turbidity (NTU)	3.2	3.2	0.0	0.0	
Dissolved O (mg/L)	0.36	0.51	1.02	1.09	
Start Time (hh:mm:ss)	9:22:58	9:38:08	9:53:20	10:13:10	
Stop Time (hh:mm:ss)	9:23:17	9:39:23	9:54:33	10:14:23	
Tot Purge Time (hh:mm:ss)	0:00:19	0:01:15	0:01:13	0:01:13	
Volume Purged (L)	1.300	1.170	1.175	unsure	
Tot Vol Purged (L)		2.470	3.645		
Odor Observations	oil-like	oil-like	oil-like	light oil	
Visual Obervations	yellow tinge, specks of product	light yellow like sheen, small particulates	sheen	sheen	

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	20	Volume Discarded (L):	0.200
Start Time (hh:mm:ss):	10:36:00	**End Time** (hh:mm:ss):	14:13:35

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14S	–	3

Louis Berger

1. Background Information

Date:	7/25/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	55 - 60	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	13.65	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	34	Purge Volume (L):	1.54
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	6.16

Purge #	1	2	3	4	5
Temperature (°C)	16.98	17.02	16.99	17.25	
pH (S.U.)	7.47	7.54	7.58	7.59	
Conductivity (mS/cm)	0.674	0.721	0.715	0.712	
ORP (mV)	49	21	32	38	
Turbidity (NTU)	28.3	30.7	30.4	27.8	
Dissolved O (mg/L)	1.54	0.92	0.57	0.73	
Start Time (hh:mm:ss)	9:22:58	9:38:08	9:53:20	10:13:10	
Stop Time (hh:mm:ss)	9:23:18	9:39:28	9:54:41	10:14:29	
Tot Purge Time (hh:mm:ss)	0:00:20	0:01:20	0:01:21	0:01:19	
Volume Purged (L)	1.270	1.280	1.300	1.270	
Tot Vol Purged (L)		2.550	3.850	5.120	
Odor Observations			oil-like		
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	20	Volume Discarded (L):	0.200
Start Time (hh:mm:ss):	10:36:00	**End Time** (hh:mm:ss):	14:13:32

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14S	–	4

Louis Berger

1. Background Information

Date:	7/25/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	65 - 70	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	13.95	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	34	Purge Volume (L):	1.58
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	6.32

Purge #	1	2	3	4	5
Temperature (°C)					
pH (S.U.)					
Conductivity (mS/cm)					
ORP (mV)					
Turbidity (NTU)					
Dissolved O (mg/L)					
Start Time (hh:mm:ss)	8:05:03	8:49:20			
Stop Time (hh:mm:ss)					
Tot Purge Time (hh:mm:ss)					
Volume Purged (L)					
Tot Vol Purged (L)					
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	20	Volume Discarded (L):	0.200
Start Time (hh:mm:ss):		**End Time** (hh:mm:ss):	

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

samples NAPL only from 1st purge; no water quality measurements were taken; no further purges were done
took another samples since the vials had HCl in them, new samples were placed in unpreserved vials

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14S	–	4

Louis Berger

1. Background Information

Date:	8/11/2017	Sampler(s):	PT, AG
Port Interval (f bgs):	65 - 70	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	13.95	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	34	Purge Volume (L):	1.58
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	6.32

Purge #	1	2	3	4	5
Temperature (°C)					
pH (S.U.)					
Conductivity (mS/cm)					
ORP (mV)					
Turbidity (NTU)					
Dissolved O (mg/L)					
Start Time (hh:mm:ss)					
Stop Time (hh:mm:ss)					
Tot Purge Time (hh:mm:ss)					
Volume Purged (L)					
Tot Vol Purged (L)					
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	20	Volume Discarded (L):	0.200
Start Time (hh:mm:ss):	6:57:00	**End Time** (hh:mm:ss):	11:00:00

Sample Analytes and Bottles:

X	VOCs	NAPL
X	SVOCs	NAPL

	Metals	500 mL HDPE
	Pesticides	1L amber
X	PCB Aroclors	NAPL

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

5 sample strokes were taken between 6:57 and 11:00 am

2 x 1 L amber bottles were filled with approximately 35mL NAPL product between the two bottles

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14D – **1**

Louis Berger

1. Background Information

Date:	**7/25/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**80 - 85**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	13.3

2. Water FLUTe Dilation Check

Interval Head (f bgs):	14.71	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	3.88
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.52

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.75	15.35	15.52	15.33	
pH (S.U.)	7.12	7.45	7.55	7.55	
Conductivity (mS/cm)	0.673	0.605	0.699	0.712	
ORP (mV)	-62	-52	-60	-50	
Turbidity (NTU)	29.0	28.9	28.2	28.4	
Dissolved O (mg/L)	1.08	0.59	0.00	0.31	
Start Time (hh:mm:ss)	7:25:56	7:44:42	8:20:50	8:40:12	
Stop Time (hh:mm:ss)	7:29:56	7:48:08	8:24:27	8:43:42	
Tot Purge Time (hh:mm:ss)	0:04:00	0:03:26	0:03:37	0:03:30	
Volume Purged (L)	4.215	3.400	3.650	3.500	
Tot Vol Purged (L)					
Odor Observations	sweet	sulfuric			
Visual Obervations	pin drops of NAPL, lots of particulates, sheen	specks of product, some floating/sinking	light sheen		

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:10:21	**End Time** (hh:mm:ss):	10:44:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

needs dry bag

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14D – **2**

Louis Berger

1. Background Information

Date:	**7/25/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**123 - 133**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	13.3

2. Water FLUTe Dilation Check

Interval Head (f bgs):	14.72	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	3.99
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.96

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.85	14.39	14.67	14.41	
pH (S.U.)	7.17	7.36	7.54	7.54	
Conductivity (mS/cm)	0.461	0.507	0.524	0.531	
ORP (mV)	265	49	-17	-4	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	2.12	4.12	0.00	0.00	
Start Time (hh:mm:ss)	7:25:56	7:44:42	8:20:50	8:40:12	
Stop Time (hh:mm:ss)	7:29:59	7:48:15	8:24:26	8:43:49	
Tot Purge Time (hh:mm:ss)	0:04:03	0:03:33	0:03:36	0:03:37	
Volume Purged (L)	4.380	3.550	3.570	3.580	
Tot Vol Purged (L)		7.930	11.500	15.080	
Odor Observations					
Visual Obervations	specks of product	small specks of product, no sheen	small drops	no product or sheen	

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:10:21	**End Time** (hh:mm:ss):	11:59:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

needs dry bag

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-14D	–	3

Louis Berger

1. Background Information

Date:	7/25/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	199 - 209	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	13.3

2. Water FLUTe Dilation Check

Interval Head (f bgs):	14.68	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.04
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.16

Purge #	1	2	3	4	5
Temperature (°C)	16.34	15.51	15.50	15.39	
pH (S.U.)	6.77	7.56	7.64	7.65	
Conductivity (mS/cm)	0.000	0.478	0.505	0.506	
ORP (mV)	54	153	-43	13	
Turbidity (NTU)	225.0	28.6	27.5	27.5	
Dissolved O (mg/L)	9.49	0.05	0.05	0.00	
Start Time (hh:mm:ss)	7:25:56	7:44:42	8:20:50	8:40:12	
Stop Time (hh:mm:ss)	7:30:23	7:48:27	8:24:37	8:44:01	
Tot Purge Time (hh:mm:ss)	0:04:27	0:03:45	0:03:47	0:03:49	
Volume Purged (L)	4.440	3.860	3.505	3.700	
Tot Vol Purged (L)		8.300	11.805	15.505	
Odor Observations		sulfuric			
Visual Obervations	little bits of NAPL, oil/DNAPL on bottom, sheen	small specks, sheen	oil droplet on bottom of bucket		

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:10:21	**End Time** (hh:mm:ss):	12:25:01

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

needs dry bag

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-15S	–	1

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	30 - 40	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.40	Liner Head (f bgs):	5.71	Date:	7/20/2017

3. Purges of Port Interval:

Purge Pressure (psi):	47	Purge Volume (L):	2.81
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	11.24

Purge #	1	2	3	4	5
Temperature (°C)	20.29	18.93	18.31	16.55	
pH (S.U.)	6.74	6.95	7.09	7.28	
Conductivity (mS/cm)	1.08	1.09	1.09	1.08	
ORP (mV)	291	259	207	202	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	8.2	10.2	6.8	4.2	
Start Time (hh:mm:ss)	7:54:09	8:08:58	8:19:34	8:34:25	
Stop Time (hh:mm:ss)	7:56:23	8:11:32	8:22:04	8:36:48	
Tot Purge Time (hh:mm:ss)	0:02:14	0:02:34	0:02:30	0:02:23	
Volume Purged (L)	2.500	2.550	2.455	2.345	
Tot Vol Purged (L)		5.050	7.505	9.850	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	33	Volume Discarded (L):	0.250
Start Time (hh:mm:ss):	10:36:06	**End Time** (hh:mm:ss):	11:24:03

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-15S	–	2

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	70 - 80	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.68	Liner Head (f bgs):	5.71	Date:	7/20/2017

3. Purges of Port Interval:

Purge Pressure (psi):	47	Purge Volume (L):	2.92
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	11.68

Purge #	1	2	3	4	5
Temperature (°C)	17.96	18.78	17.52	18.19	
pH (S.U.)	7.34	7.46	7.41	7.45	
Conductivity (mS/cm)	0.786	0.737	0.692	0.628	
ORP (mV)	220	169	140	153	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	104.1	15.8	12.0	11.6	
Start Time (hh:mm:ss)	7:54:09	8:08:58	8:19:34	8:34:25	
Stop Time (hh:mm:ss)	7:56:29	8:11:37	8:22:14	8:37:05	
Tot Purge Time (hh:mm:ss)	0:02:20	0:02:39	0:02:40	0:02:40	
Volume Purged (L)	2.490	2.500	2.265	2.500	
Tot Vol Purged (L)		4.990	7.255	9.755	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	33	Volume Discarded (L):	0.250
Start Time (hh:mm:ss):	10:36:06	**End Time** (hh:mm:ss):	11:22:53

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-15D	–	1

Louis Berger

1. Background Information

Date:	7/20/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	125 - 135	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.80	Liner Head (f bgs):	0.5	Date:	7/20/2017

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	3.97
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.88

Purge #	1	2	3	4	5
Temperature (°C)	19.43	18.27	17.96	17.25	
pH (S.U.)	7.38	7.24	7.35	7.38	
Conductivity (mS/cm)	0.572	0.588	0.589	0.579	
ORP (mV)	252	231	195	195	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	8.4	8.7	13.0	13.2	
Start Time (hh:mm:ss)	8:01:15	8:13:46	8:24:45	8:39:32	
Stop Time (hh:mm:ss)	8:05:10	8:17:36	8:28:27	8:43:25	
Tot Purge Time (hh:mm:ss)	0:03:55	0:03:50	0:03:42	0:03:53	
Volume Purged (L)	3.735	3.550	3.430	3.590	
Tot Vol Purged (L)		7.285	10.715	14.305	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:27:30	**End Time** (hh:mm:ss):	11:08:01

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-15D – **2**

Louis Berger

1. Background Information

Date:	**7/20/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**185 - 195**	Installation Date:	
Concentration Level:	**low**	Water Table (f bgs):	15

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.53	Liner Head (f bgs):	0.5	Date:	7/20/2017

3. Purges of Port Interval:

Purge Pressure (psi):	59	Purge Volume (L):	4.08
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.32

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.54	18.15	18.55	17.85	
pH (S.U.)	7.67	7.56	7.45	7.54	
Conductivity (mS/cm)	0.548	0.547	0.549	0.551	
ORP (mV)	198	152	143	150	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	18.8	10.2	14.4	13.5	
Start Time (hh:mm:ss)	8:01:15	8:13:46	8:24:45	8:39:32	
Stop Time (hh:mm:ss)	8:05:24	8:17:53	8:28:46	8:43:39	
Tot Purge Time (hh:mm:ss)	0:04:09	0:04:07	0:04:01	0:04:07	
Volume Purged (L)	3.770	4.130	3.640	3.750	
Tot Vol Purged (L)		7.900	11.540	15.290	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:27:30	**End Time** (hh:mm:ss):	11:08:41

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16 – **1**

Louis Berger

1. Background Information

Date:	**7/19/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**20 - 30**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.58	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.58
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.32

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.84	18.05	20.37	19.14	
pH (S.U.)	7.31	7.07	7.16	7.45	
Conductivity (mS/cm)	0.781	0.763	0.730	0.726	
ORP (mV)	258	151	148	159	
Turbidity (NTU)	1.6	0.8	6.1	20.1	
Dissolved O (mg/L)	28.1	15.1	16.6	8.7	
Start Time (hh:mm:ss)	8:06:41	8:27:23	8:58:00	9:17:36	
Stop Time (hh:mm:ss)	8:10:42	8:30:19	9:01:07	9:20:31	
Tot Purge Time (hh:mm:ss)	0:04:01	0:02:56	0:03:07	0:02:55	
Volume Purged (L)	3.280	2.760	3.220	3.060	
Tot Vol Purged (L)		6.040	9.260	12.320	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:04	**End Time** (hh:mm:ss):	11:15:15

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16	–	2

Louis Berger

1. Background Information

Date:	7/19/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	40 - 50	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.07	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.69
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.76

Purge #	1	2	3	4	5
Temperature (°C)	17.79	19.91	20.62	20.34	
pH (S.U.)	7.54	7.62	7.73	7.84	
Conductivity (mS/cm)	0.643	0.607	0.622	0.619	
ORP (mV)	250	150	102	158	
Turbidity (NTU)	2.5	7.5	7.4	7.8	
Dissolved O (mg/L)	22.1	80	20.9	53.9	
Start Time (hh:mm:ss)	8:06:41	8:27:23	8:58:00	9:17:36	
Stop Time (hh:mm:ss)	8:10:53	8:30:31	9:01:09	9:20:41	
Tot Purge Time (hh:mm:ss)	0:04:12	0:03:08	0:03:09	0:03:05	
Volume Purged (L)	3.520	3.350	3.420	3.270	
Tot Vol Purged (L)		6.870	10.290	13.560	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:04	**End Time** (hh:mm:ss):	11:39

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16	–	3

Louis Berger

1. Background Information

Date:	7/19/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	85 - 95	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.91	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.73
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.92

Purge #	1	2	3	4	5
Temperature (°C)	18.95	18.39	18.70	18.19	
pH (S.U.)	7.58	7.25	7.44	7.60	
Conductivity (mS/cm)	0.658	0.637	0.639	0.633	
ORP (mV)	197	126	131	145	
Turbidity (NTU)	1.3	2.3	0.9	2.3	
Dissolved O (mg/L)	20.8	19.6	20.5	15.3	
Start Time (hh:mm:ss)	8:06:41	8:27:23	8:58:00	9:17:36	
Stop Time (hh:mm:ss)	8:11:11	8:30:41	9:01:20	9:20:52	
Tot Purge Time (hh:mm:ss)	0:04:30	0:03:18	0:03:20	0:03:16	
Volume Purged (L)	2.860	3.400	3.440	3.330	
Tot Vol Purged (L)		6.260	9.700	13.030	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:04	**End Time** (hh:mm:ss):	12:48

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

poor port filling; filling cracked

flow just stopped during purge 1 so decreased the purge pressure to 48

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16 – **4**

Louis Berger

1. Background Information

Date:	**7/19/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**108 - 118**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.86	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.78
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.12

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.70	17.88	17.96	18.47	
pH (S.U.)	7.57	7.71	7.81	7.87	
Conductivity (mS/cm)	0.583	0.579	0.590	0.583	
ORP (mV)	241	141	99	152	
Turbidity (NTU)	1.4	2.0	3.9	5.1	
Dissolved O (mg/L)	24	21.5	16.9	25.8	
Start Time (hh:mm:ss)	8:06:41	8:27:23	8:58:00	9:17:36	
Stop Time (hh:mm:ss)	8:11:11	8:30:48	9:01:23	9:20:57	
Tot Purge Time (hh:mm:ss)	0:04:30	0:03:25	0:03:23	0:03:21	
Volume Purged (L)	2.970	3.570	3.490	3.410	
Tot Vol Purged (L)		6.540	10.030	13.440	
Odor Observations					
Visual Obervations		soapy			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:12	**End Time** (hh:mm:ss):	11:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

flow just stopped during purge 1 so decreased the purge pressure to 48

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16 – **5**

Louis Berger

1. Background Information

Date:	**7/19/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**135 - 145**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.79	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.82
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.28

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	19.43	19.50	20.28	18.46	
pH (S.U.)	7.02	7.21	7.63	7.60	
Conductivity (mS/cm)	0.566	0.540	0.602	0.603	
ORP (mV)	69	50	156	139	
Turbidity (NTU)	4.7	4.8	4.7	3.9	
Dissolved O (mg/L)	10.0	60.3	13.4	9.7	
Start Time (hh:mm:ss)	8:18:22	8:50:10	9:09:24	9:26:44	
Stop Time (hh:mm:ss)	8:23:07	8:53:41	9:12:44	9:30:02	
Tot Purge Time (hh:mm:ss)	0:04:45	0:03:31	0:03:20	0:03:18	
Volume Purged (L)	2.950	3.420	3.090	2.120	
Tot Vol Purged (L)		6.370	9.460	11.580	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:12	**End Time** (hh:mm:ss):	11:07

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

flow just stopped during purge 1 so decreased the purge pressure to 48

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16	–	6

Louis Berger

1. Background Information

Date:	7/19/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	170 - 180	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.69	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.86
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.44

Purge #	1	2	3	4	5
Temperature (°C)	20.66	21.69	20.36	19.27	
pH (S.U.)	7.55	7.73	7.89	7.90	
Conductivity (mS/cm)	0.478	0.478	0.533	0.535	
ORP (mV)	13	-4	139	158	
Turbidity (NTU)	40.8	116	28.8	13.0	
Dissolved O (mg/L)	28.3	35.3	13.5	27.0	
Start Time (hh:mm:ss)	8:18:22	8:50:10	9:09:24	9:26:44	
Stop Time (hh:mm:ss)	8:22:46	8:53:37	9:12:51	9:30:09	
Tot Purge Time (hh:mm:ss)	0:04:24	0:03:27	0:03:27	0:03:25	
Volume Purged (L)	3.000	3.470	3.390	3.490	
Tot Vol Purged (L)		6.470	9.860	13.350	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:12	**End Time** (hh:mm:ss):	11:06

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

flow just stopped during purge 1 so decreased the purge pressure to 48

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-16 – **7**

Louis Berger

1. Background Information

Date:	7/19/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	195 - 205	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.32	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 48)	Purge Volume (L):	3.91
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.64

Purge #	1	2	3	4	5
Temperature (°C)	18.70	18.63	18.11	17.80	
pH (S.U.)	6.98	7.35	7.59	7.62	
Conductivity (mS/cm)	0.548	0.548	0.564	0.560	
ORP (mV)	85	42	150	136	
Turbidity (NTU)	2.4	1.7	1.5	2.1	
Dissolved O (mg/L)	14.3	19.4	12.0	12.5	
Start Time (hh:mm:ss)	8:18:22	8:50:10	9:09:24	9:26:44	
Stop Time (hh:mm:ss)	8:22:53	8:53:45	9:12:56	9:30:18	
Tot Purge Time (hh:mm:ss)	0:04:31	0:03:35	0:03:32	0:03:34	
Volume Purged (L)	3.067	3.630	3.490	3.010	
Tot Vol Purged (L)		6.697	10.187	13.197	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	38	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:18	**End Time** (hh:mm:ss):	11:50

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

X	PCB Congeners	1L amber
X	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

flow just stopped during purge 1 so decreased the purge pressure to 48

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	1

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	31 - 41	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.51	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	19.43	18.18	17.60	17.32	
pH (S.U.)	6.96	7.36	7.43	7.44	
Conductivity (mS/cm)	0.771	0.700	0.725	0.754	
ORP (mV)	-75	-93	-87	-77	
Turbidity (NTU)	3.5	0.6	1.8	1.6	
Dissolved O (mg/L)	0.46	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:11:00	7:36:11	8:01:58	8:24:27	
Stop Time (hh:mm:ss)	7:14:14	7:39:27	8:05:15	8:27:38	
Tot Purge Time (hh:mm:ss)	0:03:14	0:03:16	0:03:17	0:03:11	
Volume Purged (L)	3.290	3.240	3.250	3.160	
Tot Vol Purged (L)		6.530	9.780	12.940	
Odor Observations			sulfuirc		
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:18	**End Time** (hh:mm:ss):	10:22:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	2

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	46 - 51	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.80	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	17.48	17.13	17.89	16.50	
pH (S.U.)	7.17	6.85	7.06	7.09	
Conductivity (mS/cm)	0.809	0.846	0.860	0.857	
ORP (mV)	195	75	74	41	
Turbidity (NTU)	2.0	2.6	1.1	0.0	
Dissolved O (mg/L)	0.04	0.00	2.02	1.91	
Start Time (hh:mm:ss)	7:11:00	7:36:11	8:01:58	8:24:27	
Stop Time (hh:mm:ss)	7:14:15	7:39:33	8:05:21	8:27:46	
Tot Purge Time (hh:mm:ss)	0:03:15	0:03:22	0:03:23	0:03:19	
Volume Purged (L)	3.500	3.250	3.400	3.450	
Tot Vol Purged (L)		6.750	10.150	13.600	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:28	**End Time** (hh:mm:ss):	10:25:34

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	3

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	100 - 110	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.56	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	16.95	16.81	17.85	17.52	
pH (S.U.)	7.35	7.43	7.58	7.61	
Conductivity (mS/cm)	0.593	0.626	0.624	0.628	
ORP (mV)	41	49	62	58	
Turbidity (NTU)	4.2	0.0	1.5	1.8	
Dissolved O (mg/L)	0.00	0.00	0.45	0.00	
Start Time (hh:mm:ss)	7:24:27	7:51:25	8:15:55	8:34:10	
Stop Time (hh:mm:ss)	7:27:53	7:54:53	8:19:21	8:37:31	
Tot Purge Time (hh:mm:ss)	0:03:26	0:03:28	0:03:26	0:03:21	
Volume Purged (L)	3.440	3.340	3.330	3.250	
Tot Vol Purged (L)		6.780	10.110	13.360	
Odor Observations		sulfuric odor			
Visual Obervations	soapy, suds present	sudsy	less sudsy than before		

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:38	**End Time** (hh:mm:ss):	10:29:40

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	4

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	125 - 135	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.10	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	17.75	16.41	16.27	16.20	
pH (S.U.)	6.90	7.29	7.37	7.50	
Conductivity (mS/cm)	0.519	0.527	0.521	0.521	
ORP (mV)	39	-39	21	47	
Turbidity (NTU)	6.9	1.4	0.2	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:24:27	7:51:25	8:15:55	8:34:10	
Stop Time (hh:mm:ss)	7:27:50	7:55:21	8:19:19	8:37:32	
Tot Purge Time (hh:mm:ss)	0:03:23	0:03:56	0:03:24	0:03:22	
Volume Purged (L)	3.750	3.575	3.450	3.475	
Tot Vol Purged (L)		7.325	10.775	14.250	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:17	**End Time** (hh:mm:ss):	10:21:45

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	5

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	180 - 190	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.55	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	17.47	16.20	16.69	16.48	
pH (S.U.)	7.33	7.59	7.69	7.67	
Conductivity (mS/cm)	0.554	0.526	0.531	0.533	
ORP (mV)	-91	-72	-37	-16	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.39	0.00	0.31	0.73	
Start Time (hh:mm:ss)	7:11:00	7:51:25	8:15:55	8:34:10	
Stop Time (hh:mm:ss)	7:14:40	7:55:13	8:19:38	8:37:49	
Tot Purge Time (hh:mm:ss)	0:03:40	0:03:48	0:03:43	0:03:39	
Volume Purged (L)	3.550	3.500	3.530	3.490	
Tot Vol Purged (L)		7.050	10.580	14.070	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:27	**End Time** (hh:mm:ss):	10:24:35

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

split port fitting

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	6

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	200 - 205	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.58	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	16.89	16.70	16.58	16.20	
pH (S.U.)	7.13	7.12	7.27	7.45	
Conductivity (mS/cm)	0.437	0.462	0.457	0.456	
ORP (mV)	28	-51	-27	-5	
Turbidity (NTU)	5.2	3.3	0.7	0.7	
Dissolved O (mg/L)	0.00	0.00	0.00	0.43	
Start Time (hh:mm:ss)	7:11:00	7:36:11	8:01:58	8:24:27	
Stop Time (hh:mm:ss)	7:14:30	7:39:51	8:05:36	8:28:02	
Tot Purge Time (hh:mm:ss)	0:03:30	0:03:40	0:03:38	0:03:35	
Volume Purged (L)	3.500	3.400	3.525	3.525	
Tot Vol Purged (L)		6.900	10.425	13.950	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:37	**End Time** (hh:mm:ss):	10:27:02

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	7

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	235 - 245	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.39	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	17.20	17.21	16.91	16.78	
pH (S.U.)	7.39	7.63	7.70	7.71	
Conductivity (mS/cm)	0.479	0.478	0.477	0.469	
ORP (mV)	-79	-118	-111	-104	
Turbidity (NTU)	0.0	0.0	0.0	0.4	
Dissolved O (mg/L)	0.00	0.00	0.25	0.27	
Start Time (hh:mm:ss)	7:11:00	7:36:11	8:01:58	8:24:27	
Stop Time (hh:mm:ss)	7:14:57	7:40:16	8:06:01	8:28:27	
Tot Purge Time (hh:mm:ss)	0:03:57	0:04:05	0:04:03	0:04:00	
Volume Purged (L)	3.660	3.690	3.660	3.620	
Tot Vol Purged (L)		7.350	11.010	14.630	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:19	**End Time** (hh:mm:ss):	10:21:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	8

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	268 - 278	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.59	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	16.76	16.17	16.18	16.16	
pH (S.U.)	7.09	7.17	7.43	7.60	
Conductivity (mS/cm)	0.527	0.532	0.532	0.531	
ORP (mV)	28	-30	8	25	
Turbidity (NTU)	2.5	3.5	0.6	0.0	
Dissolved O (mg/L)	0.73	0.00	0.00	0.06	
Start Time (hh:mm:ss)	7:24:27	7:51:25	8:15:55	8:34:10	
Stop Time (hh:mm:ss)	7:28:14	7:54:50	8:19:44	8:37:58	
Tot Purge Time (hh:mm:ss)	0:03:47	0:03:25	0:03:49	0:03:48	
Volume Purged (L)	4.000	350.000	355.000	3525.000	
Tot Vol Purged (L)		354.000	709.000	4234.000	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:29	**End Time** (hh:mm:ss):	10:24:35

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

FPW	–	9

Louis Berger

1. Background Information

Date:	7/14/2017	Sampler(s):	PT, DC, AG, GS
Port Interval (f bgs):	300 - 310	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.37	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	

Purge #	1	2	3	4	5
Temperature (°C)	17.16	16.79	16.64	16.52	
pH (S.U.)	7.43	7.51	7.65	7.65	
Conductivity (mS/cm)	0.551	0.540	0.542	0.539	
ORP (mV)	140	-56	-90	-85	
Turbidity (NTU)	0.6	0.0	0.0	0.0	
Dissolved O (mg/L)	0.09	0.09	0.50	0.41	
Start Time (hh:mm:ss)	7:24:27	7:36:11	8:01:58	8:24:27	
Stop Time (hh:mm:ss)	7:28:18	7:39:56	8:05:53	8:28:21	
Tot Purge Time (hh:mm:ss)	0:03:51	0:03:45	0:03:55	0:03:54	
Volume Purged (L)	3.680	3.440	2.700	3.640	
Tot Vol Purged (L)		7.120	9.820	13.460	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	
Start Time (hh:mm:ss):	9:39	**End Time** (hh:mm:ss):	10:27:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-17 – **1**

Louis Berger

1. Background Information

Date:	**7/18/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**170 - 180**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	19

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.1	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	69	Purge Volume (L):	4.74
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	18.96

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.24	19.83	20.41	23.52	
pH (S.U.)	7.65	7.35	7.84	7.67	
Conductivity (mS/cm)	0.596	0.585	0.589	0.568	
ORP (mV)	187	204	136	153	
Turbidity (NTU)	0.9	0.7	1.1	2.6	
Dissolved O (mg/L)	1.80	1.11	2.07	1.46	
Start Time (hh:mm:ss)	10:09:55	10:24:30	10:47:22	11:06:29	
Stop Time (hh:mm:ss)	10:14:29	10:29:42	10:52:16	11:14:00	
Tot Purge Time (hh:mm:ss)	0:04:34	0:05:12	0:04:54	0:07:31	
Volume Purged (L)	4.430	4.380	4.460	3.750	
Tot Vol Purged (L)		8.810	13.270	17.020	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	12:39	**End Time** (hh:mm:ss):	13:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

on the last purge, the gas died so it was not a complete purge, the water just trickled

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-17 – **2**

Louis Berger

1. Background Information

Date:	**7/18/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**205 - 215**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	19

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.82	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	69	Purge Volume (L):	4.85
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	19.40

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.41	16.71	18.43	19.21	
pH (S.U.)	7.67	7.73	7.78	7.87	
Conductivity (mS/cm)	0.554	0.545	0.542	0.550	
ORP (mV)	173	164	182	233	
Turbidity (NTU)	9.0	7.7	6.1	9.3	
Dissolved O (mg/L)	2.91	2.34	3.08	2.30	
Start Time (hh:mm:ss)	10:09:55	10:24:30	10:47:22	11:06:29	
Stop Time (hh:mm:ss)	10:14:32	10:29:46	10:52:11	11:14:00	
Tot Purge Time (hh:mm:ss)	0:04:37	0:05:16	0:04:49	0:07:31	
Volume Purged (L)	4.320	4.190	4.390	3.840	
Tot Vol Purged (L)		8.510	12.900	16.740	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	12:39	**End Time** (hh:mm:ss):	13:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

on the last purge, the gas died so it was not a complete purge, the water just trickled

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-17 – **3**

Louis Berger

1. Background Information

Date:	**7/18/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**235 - 245**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	19

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.83	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	69	Purge Volume (L):	4.90
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	19.60

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	21.27	19.23	17.90	19.36	
pH (S.U.)	7.66	7.51	7.22	7.84	
Conductivity (mS/cm)	0.603	0.619	0.609	0.596	
ORP (mV)	185	101	103	129	
Turbidity (NTU)	3.5	6.7	2.7	2.9	
Dissolved O (mg/L)	2.30	0.80	1.28	1.06	
Start Time (hh:mm:ss)	10:09:55	10:24:30	10:47:22	11:06:29	
Stop Time (hh:mm:ss)	10:14:54	10:26:59	10:50:40	11:11:03	
Tot Purge Time (hh:mm:ss)	0:04:59	0:02:29	0:03:18	0:04:34	
Volume Purged (L)	4.320	1.750	2.680	1.160	
Tot Vol Purged (L)		6.070	8.750	9.910	
Odor Observations					
Visual Obervations		bubbly	bubbly	bubbly	

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	52	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	12:30	**End Time** (hh:mm:ss):	13:22

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

on the last purge, the gas died so it was not a complete purge, the water just trickled

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-18 – **1**

Louis Berger

1. Background Information

Date:	**7/13/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**160 - 170**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.25	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	69	Purge Volume (L):	4.06
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.24

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.27	20.53	19.56	16.98	
pH (S.U.)	7.75	7.90	7.74	7.84	
Conductivity (mS/cm)	0.482	0.454	0.466	0.465	
ORP (mV)	153	156	155	163	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	1.67	0.00	0.02	3.36	
Start Time (hh:mm:ss)	12:39:39	12:55:24	13:08:25	13:20:44	
Stop Time (hh:mm:ss)	12:45:11	12:58:44	13:11:41	13:23:55	
Tot Purge Time (hh:mm:ss)	0:05:32	0:03:20	0:03:16	0:03:11	
Volume Purged (L)	3.200	3.180	3.200	3.120	
Tot Vol Purged (L)		6.380	9.580	12.700	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: W62EGDGT

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:36	**End Time** (hh:mm:ss):	14:42

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-18 – **2**

Louis Berger

1. Background Information

Date:	**7/13/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**210 - 220**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.54	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	69	Purge Volume (L):	4.17
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.68

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	20.00	20.00	18.06	18.11	
pH (S.U.)	7.83	7.96	7.51	7.55	
Conductivity (mS/cm)	0.488	0.479	0.484	0.483	
ORP (mV)	140	160	173	177	
Turbidity (NTU)	0.0	0.7	0.0	0.0	
Dissolved O (mg/L)	1.63	1.16	1.08	0.95	
Start Time (hh:mm:ss)	12:39:39	12:55:24	13:08:25	13:20:44	
Stop Time (hh:mm:ss)	12:45:11	12:58:35	13:11:30	13:48:25	
Tot Purge Time (hh:mm:ss)	0:05:32	0:03:11	0:03:05	0:27:41	
Volume Purged (L)	3.700	3.500	3.500	3.500	
Tot Vol Purged (L)		7.200	10.700	14.200	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	2BY81M6K

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:38	**End Time** (hh:mm:ss):	14:46

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19	–	1

Louis Berger

1. Background Information

Date:	8/1/2017	Sampler(s):	PT, DC, EZ
Port Interval (f bgs):	65 - 75	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	13.03	Liner Head (f bgs):	1.17	Date:	8/1/2017

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	0.00

Purge #	1	2	3	4	5
Temperature (°C)	17.95	15.47	15.43	15.13	
pH (S.U.)	8.17	7.87	7.97	8.03	
Conductivity (mS/cm)	0.586	0.532	0.535	0.534	
ORP (mV)	87	24	52	77	
Turbidity (NTU)	1.9	4.2	3.3	7.3	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:07:41	8:35:00	9:00:00	9:26:00	
Stop Time (hh:mm:ss)	8:10:13	8:38:16	9:02:29	9:29:09	
Tot Purge Time (hh:mm:ss)	0:02:32	0:03:16	0:02:29	0:03:09	
Volume Purged (L)	3.250	3.000	2.280	2.800	
Tot Vol Purged (L)		6.250	8.530	11.330	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:21:00	**End Time** (hh:mm:ss):	11:35:33

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

water level inside liner decreased from surface to 1.17' below the tagline since filled on 7/31/17. refilled to top of PVC riser. Stabilized at ~ 1' below pvc riser
crack in assembly
all ports except 3 need new clips

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19 – **2**

Louis Berger

1. Background Information

Date:	**8/1/2017**	Sampler(s):	**PT, DC, EZ**
Port Interval (f bgs):	**132 - 142**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	12.22	Liner Head (f bgs):	1.17	Date:	8/1/2017

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	3.95
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.80

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.90	15.12	16.08	16.01	
pH (S.U.)	7.47	7.65	7.76	7.87	
Conductivity (mS/cm)	0.464	0.390	0.444	0.405	
ORP (mV)	283	141	134	131	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.09	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:07:41	8:35:00	9:00:00	9:26:00	
Stop Time (hh:mm:ss)	8:09:52	8:38:17	9:03:20	9:29:14	
Tot Purge Time (hh:mm:ss)	0:02:11	0:03:17	0:03:20	0:03:14	
Volume Purged (L)	2.750	3.140	3.020	3.000	
Tot Vol Purged (L)		5.890	8.910	11.910	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:22:00	**End Time** (hh:mm:ss):	11:57:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

port 2 filling is split

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19 – **3**

Louis Berger

1. Background Information

Date:	**8/1/2017**	Sampler(s):	**PT, DC, EZ**
Port Interval (f bgs):	**200 - 210**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.72	Liner Head (f bgs):	1.17	Date:	8/1/2017

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	3.99
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.96

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.48	15.71	15.46	15.40	
pH (S.U.)	7.95	7.84	7.69	8.05	
Conductivity (mS/cm)	0.516	0.500	0.486	0.491	
ORP (mV)	71	16	132	70	
Turbidity (NTU)	0.0	0.2	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:07:41	8:35:00	9:00:00	9:26:00	
Stop Time (hh:mm:ss)	8:10:30	8:38:30	9:03:45	9:29:23	
Tot Purge Time (hh:mm:ss)	0:02:49	0:03:30	0:03:45	0:03:23	
Volume Purged (L)	2.450	3.240	3.110	3.160	
Tot Vol Purged (L)		5.690	8.800	11.960	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:23:00	**End Time** (hh:mm:ss):	11:36:31

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19 – **4**

Louis Berger

1. Background Information

Date:	**8/1/2017**	Sampler(s):	**PT, DC, EZ**
Port Interval (f bgs):	**257 - 267**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.21	Liner Head (f bgs):	1.17	Date:	8/1/2017

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.04
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.16

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.06	15.06	15.32	15.36	
pH (S.U.)	7.56	7.55	7.69	7.74	
Conductivity (mS/cm)	0.464	0.486	0.488	0.487	
ORP (mV)	253	143	134	134	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:07:41	8:35:00	9:00:00	9:26:00	
Stop Time (hh:mm:ss)	8:10:26	8:38:33	9:03:40	9:29:24	
Tot Purge Time (hh:mm:ss)	0:02:45	0:03:33	0:03:40	0:03:24	
Volume Purged (L)	3.150	3.070	2.950	3.000	
Tot Vol Purged (L)		6.220	9.170	12.170	
Odor Observations					
Visual Obervations		soapy			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:31:10	**End Time** (hh:mm:ss):	11:36:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19 – **5**

Louis Berger

1. Background Information

Date:	**8/1/2017**	Sampler(s):	**PT, DC, EZ**
Port Interval (f bgs):	**367 - 377**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs): _____ Liner Head (f bgs): _____ Date: _____

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.08
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.32

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.86	15.44	15.35	15.06	
pH (S.U.)	7.71	7.72	7.87	7.98	
Conductivity (mS/cm)	0.666	0.812	0.731	0.675	
ORP (mV)	-21	31	37	79	
Turbidity (NTU)	2.0	0.0	0.3	0.2	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:22:01	8:48:07	9:11:00	9:35:15	
Stop Time (hh:mm:ss)	8:25:40	8:51:35	9:14:22	9:38:38	
Tot Purge Time (hh:mm:ss)	0:03:39	0:03:28	0:03:22	0:03:23	
Volume Purged (L)	3.770	3.430	3.330	3.350	
Tot Vol Purged (L)		7.200	10.530	13.880	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:05:00	**End Time** (hh:mm:ss):	11:15:54

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19	–	6

Louis Berger

1. Background Information

Date:	8/1/2017	Sampler(s):	PT, DC, EZ
Port Interval (f bgs):	480 - 490	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.99	Liner Head (f bgs):	1.17	Date:	8/1/2017

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.12
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.48

Purge #	1	2	3	4	5
Temperature (°C)	16.78	16.76	15.94	15.21	
pH (S.U.)	7.29	7.28	7.29	7.34	
Conductivity (mS/cm)	3.03	3.22	3.24	3.20	
ORP (mV)	121	99	89	96	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.09	0.24	1.30	0.00	
Start Time (hh:mm:ss)	8:22:01	8:48:07	9:11:00	9:35:15	
Stop Time (hh:mm:ss)	8:25:50	8:51:46	9:14:36	9:38:50	
Tot Purge Time (hh:mm:ss)	0:03:49	0:03:39	0:03:36	0:03:35	
Volume Purged (L)	3.970	3.750	3.580	3.570	
Tot Vol Purged (L)		7.720	11.300	14.870	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:06:00	**End Time** (hh:mm:ss):	11:24:22

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-19 – **7**

Louis Berger

1. Background Information

Date:	**8/1/2017**	Sampler(s):	**PT, DC, EZ**
Port Interval (f bgs):	**545 - 555**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	8

2. Water FLUTe Dilation Check

Interval Head (f bgs):	6.13	Liner Head (f bgs):	1.17	Date:	8/1/2017

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.17
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.68

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.23	15.56	15.37	15.38	
pH (S.U.)	7.30	7.39	7.50	7.58	
Conductivity (mS/cm)	2.85	2.83	2.80	2.76	
ORP (mV)	-53	-30	36	66	
Turbidity (NTU)	0.2	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:22:01	8:48:07	9:11:00	9:35:15	
Stop Time (hh:mm:ss)	8:26:01	8:52:02	9:14:51	9:39:10	
Tot Purge Time (hh:mm:ss)	0:04:00	0:03:55	0:03:51	0:03:55	
Volume Purged (L)	3.870	3.800	3.750	3.795	
Tot Vol Purged (L)		7.670	11.420	15.215	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	40	Volume Discarded (L):	0.350
Start Time (hh:mm:ss):	10:07:00	**End Time** (hh:mm:ss):	11:23:26

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **1**

Louis Berger

1. Background Information

Date:	7/24/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	25 - 35	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.88	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.50
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.00

Purge #	1	2	3	4	5
Temperature (°C)	19.77	17.95	17.67	17.79	
pH (S.U.)	7.76	7.39	7.33	7.13	
Conductivity (mS/cm)	2.76	2.36	2.12	2.20	
ORP (mV)	220	242	8	3	
Turbidity (NTU)	2.3	3.6	4.5	2.8	
Dissolved O (mg/L)	0.32	0.00	3.44	0.28	
Start Time (hh:mm:ss)	10:46:04	11:06:48	11:30:22	11:53:12	
Stop Time (hh:mm:ss)	10:48:56	11:09:25	11:33:03	11:55:49	
Tot Purge Time (hh:mm:ss)	0:02:52	0:02:37	0:02:41	0:02:37	
Volume Purged (L)	3.320	2.770	3.020	2.880	
Tot Vol Purged (L)		6.090	9.110	11.990	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:41:34	**End Time** (hh:mm:ss):	14:15:40

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **2**

Louis Berger

1. Background Information

Date:	**7/24/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**85 - 95**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.81	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.61
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.44

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.63	17.06	17.06	16.52	
pH (S.U.)	7.77	7.51	7.63	7.60	
Conductivity (mS/cm)	0.563	0.574	0.604	0.613	
ORP (mV)	211	211	191	196	
Turbidity (NTU)	0.2	0.6	0.0	1.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.86	
Start Time (hh:mm:ss)	10:46:04	11:06:48	11:30:22	11:53:12	
Stop Time (hh:mm:ss)	10:49:00	11:09:36	11:33:13	11:56:01	
Tot Purge Time (hh:mm:ss)	0:02:56	0:02:48	0:02:51	0:02:49	
Volume Purged (L)	3.150	2.945	3.025	3.010	
Tot Vol Purged (L)		6.095	9.120	12.130	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:41:34	**End Time** (hh:mm:ss):	14:15:21

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **3**

Louis Berger

1. Background Information

Date:	**7/24/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**125 - 135**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.25	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.65
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.60

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.13	17.21	17.15	17.09	
pH (S.U.)	7.92	7.64	7.60	7.61	
Conductivity (mS/cm)	0.566	0.542	0.545	0.591	
ORP (mV)	207	221	20	16	
Turbidity (NTU)	0.5	1.9	0.9	1.4	
Dissolved O (mg/L)	0.40	0.15	0.41	0.57	
Start Time (hh:mm:ss)	10:46:04	11:06:48	11:30:22	11:53:12	
Stop Time (hh:mm:ss)	10:49:10	11:09:45	11:33:19	11:56:09	
Tot Purge Time (hh:mm:ss)	0:03:06	0:02:57	0:02:57	0:02:57	
Volume Purged (L)	3.240	2.960	3.340	3.160	
Tot Vol Purged (L)		6.200	9.540	12.700	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:48:01	**End Time** (hh:mm:ss):	14:00:56

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **4**

Louis Berger

1. Background Information

Date:	**7/24/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**175 - 185**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.39	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.69
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.76

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.53	16.24	16.23	15.91	
pH (S.U.)	7.75	7.53	7.77	7.71	
Conductivity (mS/cm)	0.418	0.430	0.426	0.425	
ORP (mV)	210	210	186	193	
Turbidity (NTU)	0.4	0.5	0.3	0.4	
Dissolved O (mg/L)	0.00	0.00	1.31	0.00	
Start Time (hh:mm:ss)	10:46:04	11:06:48	11:30:22	11:53:12	
Stop Time (hh:mm:ss)	10:49:11	11:09:48	11:33:21	11:56:11	
Tot Purge Time (hh:mm:ss)	0:03:07	0:03:00	0:02:59	0:02:59	
Volume Purged (L)	3.400	3.070	3.140	3.160	
Tot Vol Purged (L)		6.470	9.610	12.770	
Odor Observations					
Visual Obervations		soapy			

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:48:01	**End Time** (hh:mm:ss):	13:59:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **5**

Louis Berger

1. Background Information

Date:	**7/24/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**205 - 215**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.11	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.73
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	19.04	18.30	18.11	18.10	
pH (S.U.)	7.81	7.82	7.84	7.76	
Conductivity (mS/cm)	0.443	0.447	0.439	0.669	
ORP (mV)	222	214	175	34	
Turbidity (NTU)	2.5	3.2	2.7	2.1	
Dissolved O (mg/L)	0.21	0.65	0.20	0.33	
Start Time (hh:mm:ss)	10:57:33	11:17:17	11:38:24	12:02:58	
Stop Time (hh:mm:ss)	11:00:55	11:20:30	11:41:31	12:06:10	
Tot Purge Time (hh:mm:ss)	0:03:22	0:03:13	0:03:07	0:03:12	
Volume Purged (L)	3.455	2.970	3.125	3.420	
Tot Vol Purged (L)		6.425	9.550	12.970	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:52:42	**End Time** (hh:mm:ss):	14:05:02

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **6**

Louis Berger

1. Background Information

Date:	**7/24/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**250 - 260**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	6.82	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.78
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.12

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.10	16.58	17.41	17.42	
pH (S.U.)	7.64	7.68	7.77	7.76	
Conductivity (mS/cm)	0.425	0.424	0.425	0.42	
ORP (mV)	208	203	192	201	
Turbidity (NTU)	0.0	0.4	0.5	0.2	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	10:57:33	11:17:17	11:38:24	12:02:58	
Stop Time (hh:mm:ss)	11:01:00	11:20:40	11:41:33	12:06:12	
Tot Purge Time (hh:mm:ss)	0:03:27	0:03:23	0:03:09	0:03:14	
Volume Purged (L)	3.460	3.060	3.105	3.210	
Tot Vol Purged (L)		6.520	9.625	12.835	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:52:42	**End Time** (hh:mm:ss):	14:16:30

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **7**

Louis Berger

1. Background Information

Date:	**7/24/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**297 - 307**	Installation Date:	
Concentration Level:		Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	6.09	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.82
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.28

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.73	17.45	16.84	16.95	
pH (S.U.)	7.71	7.77	7.80	7.81	
Conductivity (mS/cm)	0.502	0.500	0.505	0.505	
ORP (mV)	227	207	178	54	
Turbidity (NTU)	0.6	0.4	0.5	0.6	
Dissolved O (mg/L)	0.12	0.93	0.93	1.36	
Start Time (hh:mm:ss)	10:57:33	11:17:17	11:38:24	12:02:58	
Stop Time (hh:mm:ss)	11:01:09	11:20:57	11:41:57	12:06:30	
Tot Purge Time (hh:mm:ss)	0:03:36	0:03:40	0:03:33	0:03:32	
Volume Purged (L)	3.620	3.470	3.640	3.660	
Tot Vol Purged (L)		7.090	10.730	14.390	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 9TLMU064

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:57:35	**End Time** (hh:mm:ss):	14:07:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-20 – **8**

Louis Berger

1. Background Information

Date:	7/24/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	355 - 365	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	6.85	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	53	Purge Volume (L):	3.86
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.44

Purge #	1	2	3	4	5
Temperature (°C)	16.49	15.99	16.27	16.04	
pH (S.U.)	7.58	7.64	7.67	7.74	
Conductivity (mS/cm)	0.468	0.471	0.462	0.455	
ORP (mV)	211	194	193	204	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.16	3.00	0.36	1.64	
Start Time (hh:mm:ss)	10:57:33	11:17:17	11:38:24	12:02:58	
Stop Time (hh:mm:ss)	11:01:11	11:21:39	11:42:01	12:06:33	
Tot Purge Time (hh:mm:ss)	0:03:38	0:04:22	0:03:37	0:03:35	
Volume Purged (L)	3.555	2.900	3.495	3.510	
Tot Vol Purged (L)		6.455	9.950	13.460	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	36	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	12:57:35	**End Time** (hh:mm:ss):	14:09:09

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

during the 2nd purge, the flow just died

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21 – **1**

Louis Berger

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	50 -60	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	2.92	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	3.80
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.20

Purge #	1	2	3	4	5
Temperature (°C)	18.01	16.58	15.79	16.25	
pH (S.U.)	7.34	7.54	7.62	7.69	
Conductivity (mS/cm)	0.998	0.978	0.984	0.966	
ORP (mV)	259	210	221	228	
Turbidity (NTU)	1.1	7.2	12.3	10.3	
Dissolved O (mg/L)	0.00	0.00	2.98	0.00	
Start Time (hh:mm:ss)	7:31:38	8:07:27	8:38:37	9:16:16	
Stop Time (hh:mm:ss)	7:32:20	8:09:10	8:39:50	9:17:28	
Tot Purge Time (hh:mm:ss)	0:00:42	0:01:43	0:01:13	0:01:12	
Volume Purged (L)	2.050	2.000	1.940	2.000	
Tot Vol Purged (L)		4.050	5.990	7.990	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	38 (use 25)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:48:08	**End Time** (hh:mm:ss):	12:01:47

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

split port fitting

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 25 (the flow blew at 38 and 35)

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21 – **2**

Louis Berger

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	87 - 97	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	2.70	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	3.91
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.64

Purge #	1	2	3	4	5
Temperature (°C)	16.83	15.44	14.49	16.30	
pH (S.U.)	7.39	7.40	7.65	7.61	
Conductivity (mS/cm)	1.06	1.09	1.08	1.08	
ORP (mV)	309	225	221	200	
Turbidity (NTU)	1.7	1.4	4.2	10.0	
Dissolved O (mg/L)	5.9	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:31:38	8:07:27	8:38:37	9:16:16	
Stop Time (hh:mm:ss)	7:33:06	8:09:10	8:39:40	9:17:32	
Tot Purge Time (hh:mm:ss)	0:01:28	0:01:43	0:01:03	0:01:16	
Volume Purged (L)	2.010	2.025	1.600	2.025	
Tot Vol Purged (L)		4.035	5.635	7.660	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	38 (use 25)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:48:08	**End Time** (hh:mm:ss):	12:02:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 25 (the flow blew at 38 and 35)

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21	–	3

Louis Berger

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	150 - 160	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	2.72	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	3.95
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.80

Purge #	1	2	3	4	5
Temperature (°C)	15.91	15.58	15.24	15.40	
pH (S.U.)	7.48	7.53	7.59	7.64	
Conductivity (mS/cm)	0.932	0.951	0.976	0.964	
ORP (mV)	249	206	222	229	
Turbidity (NTU)	0.2	2.2	2.0	2.4	
Dissolved O (mg/L)	0.59	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:31:38	8:07:27	8:38:37	9:16:16	
Stop Time (hh:mm:ss)	7:33:11	8:08:46	8:39:54	9:17:33	
Tot Purge Time (hh:mm:ss)	0:01:33	0:01:19	0:01:17	0:01:17	
Volume Purged (L)	2.120	2.130	2.060	2.070	
Tot Vol Purged (L)		4.250	6.310	8.380	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	38 (use 30)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:56:49	**End Time** (hh:mm:ss):	11:38:07

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21 – **4**

Louis Berger

1. Background Information

Date:	**7/28/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**205 - 215**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	2.98	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	3.99
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.96

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.07	14.82	14.59	14.57	
pH (S.U.)	7.26	7.46	7.43	7.51	
Conductivity (mS/cm)	0.978	1.09	1.06	1.05	
ORP (mV)	314	213	232	209	
Turbidity (NTU)	0.0	0.0	0.1	0.5	
Dissolved O (mg/L)	0.00	0.49	0.21	0.00	
Start Time (hh:mm:ss)	7:31:38	8:07:27	8:38:37	9:16:16	
Stop Time (hh:mm:ss)	7:33:14	8:08:34	8:39:42	9:17:34	
Tot Purge Time (hh:mm:ss)	0:01:36	0:01:07	0:01:05	0:01:18	
Volume Purged (L)	2.145	2.190	1.730	2.140	
Tot Vol Purged (L)		4.335	6.065	8.205	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	38 (use 30)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:56:49	**End Time** (hh:mm:ss):	11:49:29

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21	–	5

Louis Berger

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	260 - 270	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	2.91	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	4.04
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.16

Purge #	1	2	3	4	5
Temperature (°C)	16.08	15.90	15.64	14.99	
pH (S.U.)	7.52	7.57	7.60	7.61	
Conductivity (mS/cm)	1.02	0.975	1.01	0.983	
ORP (mV)	194	199	212	223	
Turbidity (NTU)	36.5	71.9	46.5	29.9	
Dissolved O (mg/L)	0.20	4.45	0.00	0.24	
Start Time (hh:mm:ss)	7:45:56	7:57:39	8:20:19	8:49:47	
Stop Time (hh:mm:ss)	7:47:23	7:58:48	8:21:38	8:50:59	
Tot Purge Time (hh:mm:ss)	0:01:27	0:01:09	0:01:19	0:01:12	
Volume Purged (L)	2.230	1.640	2.120	2.180	
Tot Vol Purged (L)		3.870	5.990	8.170	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	38 (use 30)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:37:19	**End Time** (hh:mm:ss):	11:44:04

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21	–	6

Louis Berger

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	428 - 438	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	0	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	4.08
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.32

Purge #	1	2	3	4	5
Temperature (°C)	14.32	13.89	15.13	14.34	
pH (S.U.)	7.19	7.25	7.29	7.27	
Conductivity (mS/cm)	3.14	3.27	3.21	3.24	
ORP (mV)	165	197	220	189	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:45:56	7:57:39	8:20:19	8:49:47	
Stop Time (hh:mm:ss)	7:47:30	7:59:00	8:21:46	8:51:20	
Tot Purge Time (hh:mm:ss)	0:01:34	0:01:21	0:01:27	0:01:33	
Volume Purged (L)	2.480	1.930	2.330	2.350	
Tot Vol Purged (L)		4.410	6.740	9.090	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	38 (use 30)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	9:37:19	**End Time** (hh:mm:ss):	11:44:53

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21	–	7

Louis Berger

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	485 - 495	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	0	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	4.12
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.48

Purge #	1	2	3	4	5
Temperature (°C)	15.58	15.44	15.18	15.30	
pH (S.U.)	7.27	7.35	7.40	7.43	
Conductivity (mS/cm)	2.92	2.93	2.97	2.92	
ORP (mV)	169	214	228	234	
Turbidity (NTU)	0.0	0.9	1.3	1.2	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:31:38	8:07:27	8:38:37	9:16:16	
Stop Time (hh:mm:ss)	7:33:35	8:10:15	8:40:25	9:18:07	
Tot Purge Time (hh:mm:ss)	0:01:57	0:02:48	0:01:48	0:01:51	
Volume Purged (L)	2.120	1.980	2.120	1.960	
Tot Vol Purged (L)		4.100	6.220	8.180	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	38 (use 30)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:04:59	**End Time** (hh:mm:ss):	11:37:41

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

during the 1st and 3rd purge, the flow just stopped

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-21	–	8

1. Background Information

Date:	7/28/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	505 - 515	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	4.9

2. Water FLUTe Dilation Check

Interval Head (f bgs):	0	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	55 (use 60)	Purge Volume (L):	4.17
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.68

Purge #	1	2	3	4	5
Temperature (°C)	14.62	14.38	14.68	14.55	
pH (S.U.)	7.19	7.29	7.29	7.36	
Conductivity (mS/cm)	3.12	3.27	3.29	3.31	
ORP (mV)	193	219	198	198	
Turbidity (NTU)	0.0	0.0	0.6	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:31:38	8:07:27	8:38:37	9:16:16	
Stop Time (hh:mm:ss)	7:33:35	8:09:41	8:40:25	9:17:53	
Tot Purge Time (hh:mm:ss)	0:01:57	0:02:14	0:01:48	0:01:37	
Volume Purged (L)	2.500	2.480	2.420	2.420	
Tot Vol Purged (L)		4.980	7.400	9.820	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	38 (use 30)	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:04:59	**End Time** (hh:mm:ss):	11:38:05

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

during the ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-22 – **1**

Louis Berger

1. Background Information

Date:	**7/17/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**45 - 55**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	7.61

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.94	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	3.97
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.88

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	19.46	19.93	16.67	20.76	
pH (S.U.)	7.20	6.92	6.90	7.38	
Conductivity (mS/cm)	0.491	0.477	0.460	0.450	
ORP (mV)	172	132	147	148	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	2.84	1.24	3.28	1.93	
Start Time (hh:mm:ss)	13:02:20	13:22:08	13:41:35	14:03:57	
Stop Time (hh:mm:ss)	13:05:51	13:26:17	13:45:26	14:08:58	
Tot Purge Time (hh:mm:ss)	0:03:31	0:04:09	0:03:51	0:05:01	
Volume Purged (L)	3.550	3.360	3.250	3.350	
Tot Vol Purged (L)		6.910	10.160	13.510	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:21	**End Time** (hh:mm:ss):	15:28:08

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-22 – **2**

Louis Berger

1. Background Information

Date:	**7/17/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**125 - 135**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	7.61

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.42	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.08
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.32

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.40	21.19	17.66	18.17	
pH (S.U.)	8.02	8.01	7.79	7.82	
Conductivity (mS/cm)	0.648	0.655	0.660	0.656	
ORP (mV)	105	107	106	103	
Turbidity (NTU)	29.0	29.3	29.9	26.1	
Dissolved O (mg/L)	1.89	1.76	1.82	1.74	
Start Time (hh:mm:ss)	13:02:20	13:22:08	13:41:35	14:03:57	
Stop Time (hh:mm:ss)	13:05:57	13:26:24	13:45:31	14:08:06	
Tot Purge Time (hh:mm:ss)	0:03:37	0:04:16	0:03:56	0:04:09	
Volume Purged (L)	3.550	3.440	3.310	3.450	
Tot Vol Purged (L)		6.990	10.300	13.750	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:22	**End Time** (hh:mm:ss):	15:28:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-22 – **3**

Louis Berger

1. Background Information

Date:	**7/17/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**210 - 220**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	7.61

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.01	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.12
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.48

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.43	18.02	16.88	18.05	
pH (S.U.)	7.05	7.03	6.90	7.11	
Conductivity (mS/cm)	0.463	0.458	0.497	0.510	
ORP (mV)	178	126	146	163	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	2.78	1.20	2.89	2.85	
Start Time (hh:mm:ss)	13:02:20	13:22:08	13:41:35	14:03:57	
Stop Time (hh:mm:ss)	13:06:00	13:26:11	13:45:43	14:08:11	
Tot Purge Time (hh:mm:ss)	0:03:40	0:04:03	0:04:08	0:04:14	
Volume Purged (L)	3.550	3.550	3.520	3.545	
Tot Vol Purged (L)		7.100	10.620	14.165	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	T45GWLRC

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:23	**End Time** (hh:mm:ss):	15:27

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-22 – **4**

Louis Berger

1. Background Information

Date:	**7/17/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**305 - 315**	Installation Date:	
Concentration Level:	low	Water Table (f bgs):	7.61

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.13	Liner Head (f bgs):		Date:	December-16

3. Purges of Port Interval:

Purge Pressure (psi):	57	Purge Volume (L):	4.17
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.68

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.61	18.33	17.70	16.75	
pH (S.U.)	8.00	8.05	7.95	7.89	
Conductivity (mS/cm)	0.399	0.395	0.399	0.399	
ORP (mV)	98	85	84	87	
Turbidity (NTU)	28.8	29.8	27.6	26.1	
Dissolved O (mg/L)	2.07	2.27	2.34	2.60	
Start Time (hh:mm:ss)	13:02:20	13:22:08	13:41:35	14:03:57	
Stop Time (hh:mm:ss)		13:26:22	13:45:40	14:08:09	
Tot Purge Time (hh:mm:ss)	#############	0:04:14	0:04:05	0:04:12	
Volume Purged (L)	3.290	3.240	3.220	3.250	
Tot Vol Purged (L)		6.530	9.750	13.000	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	WDLS3J1S

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:24	**End Time** (hh:mm:ss):	15:27:44

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

ignore FLUT recommended pressures and use a purge pressure of 60 and a sampling pressure of 30

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23 – **1**

Louis Berger

1. Background Information

Date:	**7/27/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**60 - 70**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.2	Liner Head (f bgs):	0.77	Date:	7/27/2017

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.45
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	13.80

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.70	15.65	14.40	14.70	
pH (S.U.)	7.45	7.75	7.40	7.67	
Conductivity (mS/cm)	1.19	1.20	1.17	1.16	
ORP (mV)	-67	139	-43	133	
Turbidity (NTU)	1.5	1.2	0.6	0.5	
Dissolved O (mg/L)	0.00	0.00	2.69	0.00	
Start Time (hh:mm:ss)	7:50:39	8:32:10	9:10:55	9:44:21	
Stop Time (hh:mm:ss)	7:55:31	8:36:05	9:14:58	9:48:13	
Tot Purge Time (hh:mm:ss)	0:04:52	0:03:55	0:04:03	0:03:52	
Volume Purged (L)	4.015	3.610	3.805	3.590	
Tot Vol Purged (L)		7.625	11.430	15.020	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:36:18	**End Time** (hh:mm:ss):	12:19:54

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

for the 1st purge, the pressure was 54 but for all subsequent purges, the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23 – **2**

Louis Berger

1. Background Information

Date:	**7/27/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**120 - 130**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.83	Liner Head (f bgs):	0.77	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.56
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.24

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.63	14.98	15.37	14.91	
pH (S.U.)	7.43	7.66	7.61	7.57	
Conductivity (mS/cm)	0.74	0.723	0.738	0.743	
ORP (mV)	271	193	149	147	
Turbidity (NTU)	0.0	0.0	0.0	7.0	
Dissolved O (mg/L)	0.0	0.00	0.42	0.00	
Start Time (hh:mm:ss)	7:50:39	8:32:10	9:10:55	9:44:21	
Stop Time (hh:mm:ss)	7:55:43	8:36:19	9:15:02	9:48:24	
Tot Purge Time (hh:mm:ss)	0:05:04	0:04:09	0:04:07	0:04:03	
Volume Purged (L)	3.730	3.620	3.590	3.550	
Tot Vol Purged (L)		7.350	10.940	14.490	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:45:59	**End Time** (hh:mm:ss):	12:08:24

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

for the 1st purge, the pressure was 54 but for all subsequent purges, the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23 – **3**

Louis Berger

1. Background Information

Date:	**7/27/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**170 - 180**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.42	Liner Head (f bgs):	0.77	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.61
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.44

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.85	14.91	14.70	14.73	
pH (S.U.)	7.51	7.65	7.49	7.62	
Conductivity (mS/cm)	1.22	1.23	1.23	1.24	
ORP (mV)	17	132	-28	128	
Turbidity (NTU)	0.0	0.5	0.5	0.4	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	7:50:39	8:32:10	9:10:55	9:44:21	
Stop Time (hh:mm:ss)	7:55:41	8:36:16	9:15:03	9:48:23	
Tot Purge Time (hh:mm:ss)	0:05:02	0:04:06	0:04:08	0:04:02	
Volume Purged (L)	3.990	3.850	3.740	3.760	
Tot Vol Purged (L)		7.840	11.580	15.340	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:36:18	**End Time** (hh:mm:ss):	12:08:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

for the 1st purge, the pressure was 54 but for all subsequent purges, the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23 – **4**

Louis Berger

1. Background Information

Date:	**7/27/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**226 - 236**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	17.39	Liner Head (f bgs):	0.77	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.65
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.60

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.09	13.98	14.31	13.71	
pH (S.U.)	7.45	7.59	7.61	7.63	
Conductivity (mS/cm)	0.641	0.652	0.649	0.659	
ORP (mV)	282	203	157	150	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.32	
Start Time (hh:mm:ss)	7:50:39	8:32:10	9:10:55	9:44:21	
Stop Time (hh:mm:ss)	7:55:52	8:36:18	9:15:04	9:48:24	
Tot Purge Time (hh:mm:ss)	0:05:13	0:04:08	0:04:09	0:04:03	
Volume Purged (L)	3.820	3.750	3.700	3.650	
Tot Vol Purged (L)		7.570	11.270	14.920	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:45:59	**End Time** (hh:mm:ss):	12:06:22

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

for the 1st purge, the pressure was 54 but for all subsequent purges, the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23	–	5

Louis Berger

1. Background Information

Date:	7/27/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	258 - 268	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	17.08	Liner Head (f bgs):	0.77	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.69
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.76

Purge #	1	2	3	4	5
Temperature (°C)	14.85	14.78	15.19	14.77	
pH (S.U.)	7.59	7.73	7.74	7.76	
Conductivity (mS/cm)	0.975	0.992	1.03	0.990	
ORP (mV)	45	134	86	128	
Turbidity (NTU)	0.3	0.6	2.7	0.3	
Dissolved O (mg/L)	0.00	0.00	1.04	0.20	
Start Time (hh:mm:ss)	7:50:39	8:32:10	9:10:55	9:44:21	
Stop Time (hh:mm:ss)	7:56:01	8:36:22	9:15:04	9:48:26	
Tot Purge Time (hh:mm:ss)	0:05:22	0:04:12	0:04:09	0:04:05	
Volume Purged (L)	3.900	3.870	3.815	3.780	
Tot Vol Purged (L)		7.770	11.585	15.365	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:58:10	**End Time** (hh:mm:ss):	12:29:00

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

for the 1st purge, the pressure was 54 but for all subsequent purges, the pressure was increased to 59
during the 3rd purge, the purge water was poured from one bucket to another bucket, disrupting the water thereby resulting in a high DO

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23	–	6

Louis Berger

1. Background Information

Date:	7/27/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	316 - 326	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.91	Liner Head (f bgs):	0.77	Date:	7/27/2017

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.73
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	14.92

Purge #	1	2	3	4	5
Temperature (°C)	13.84	14.51	14.72	14.62	
pH (S.U.)	7.30	7.69	7.84	7.85	
Conductivity (mS/cm)	0.511	0.518	0.520	0.522	
ORP (mV)	185	222	157	160	
Turbidity (NTU)	2.2	3.7	8.0	6.5	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:02:51	8:44:38	9:26:34	10:00:01	
Stop Time (hh:mm:ss)	8:08:21	8:48:46	9:30:42	10:03:58	
Tot Purge Time (hh:mm:ss)	0:05:30	0:04:08	0:04:08	0:03:57	
Volume Purged (L)	3.960	3.600	3.700	3.510	
Tot Vol Purged (L)		7.560	11.260	14.770	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:58:10	**End Time** (hh:mm:ss):	12:29:56

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

for the 1st purge, the pressure was 54 but for all subsequent purges, the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23	–	7

Louis Berger

1. Background Information

Date:	7/27/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	350 - 360	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	14.79	Liner Head (f bgs):	0.77	Date:	7/27/2017

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.78
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.12

Purge #	1	2	3	4	5
Temperature (°C)	14.88	14.97	15.25	14.36	
pH (S.U.)	7.48	7.77	7.94	8.03	
Conductivity (mS/cm)	0.848	0.854	0.852	0.845	
ORP (mV)	193	175	119		
Turbidity (NTU)	0.8	1.0	1.5	0.3	
Dissolved O (mg/L)	0.00	0.00	0.47	5.30	
Start Time (hh:mm:ss)	8:02:51	8:44:38	9:26:34	10:00:01	
Stop Time (hh:mm:ss)	8:08:25	8:49:00	9:30:57	10:04:17	
Tot Purge Time (hh:mm:ss)	0:05:34	0:04:22	0:04:23	0:04:16	
Volume Purged (L)	4.170	4.085	4.130	3.890	
Tot Vol Purged (L)		8.255	12.385	16.275	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:58:10	**End Time** (hh:mm:ss):	15:01:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	X	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the volume from purge 1 may be 500mL short

for the 1st purge, the pressure 54 but for all subsequent purges, the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23 – **8**

Louis Berger

1. Background Information

Date:	**7/27/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**406 - 416**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	18.10	Liner Head (f bgs):	0.77	Date:	7/27/2017

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.82
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.28

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	13.76	14.10	13.70	13.57	
pH (S.U.)	7.34	7.54	7.68	7.73	
Conductivity (mS/cm)	1.03	1.08	1.07	0.999	
ORP (mV)	160	55	85	93	
Turbidity (NTU)	0.0	1.5	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:02:51	8:44:38	9:26:34	10:00:01	
Stop Time (hh:mm:ss)	8:08:34	8:49:03	9:30:54	10:04:17	
Tot Purge Time (hh:mm:ss)	0:05:43	0:04:25	0:04:20	0:04:16	
Volume Purged (L)	3.500	4.000	3.880	3.780	
Tot Vol Purged (L)		7.500	11.380	15.160	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: H5HBDH3P

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:12:30	**End Time** (hh:mm:ss):	14:12:22

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the flow from the 1st purge just stopped, therefore the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-23	–	9

Louis Berger

1. Background Information

Date:	7/27/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	444 - 454	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	

2. Water FLUTe Dilation Check

Interval Head (f bgs):	11.20	Liner Head (f bgs):	0.77	Date:	7/27/2017

3. Purges of Port Interval:

Purge Pressure (psi):	54 (use 59)	Purge Volume (L):	3.86
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	15.44

Purge #	1	2	3	4	5
Temperature (°C)	14.71	15.08	14.92	14.46	
pH (S.U.)	7.38	7.43	7.58	7.59	
Conductivity (mS/cm)	4.01	3.91	3.38	3.30	
ORP (mV)	147	-94	106	153	
Turbidity (NTU)	0.5	0.6	0.5	0.0	
Dissolved O (mg/L)	1.56	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:02:51	8:44:38	9:26:34	10:00:01	
Stop Time (hh:mm:ss)	8:08:34	8:49:33	9:31:25	10:04:17	
Tot Purge Time (hh:mm:ss)	0:05:43	0:04:55	0:04:51	0:04:16	
Volume Purged (L)	3.860	4.260	4.355	3.605	
Tot Vol Purged (L)		8.120	12.475	16.080	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	9TLMU064

4. Sample Collection

Sampling Pressure (psi):	37	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:12:30	**End Time** (hh:mm:ss):	12:21:41

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the flow from the 1st purge just stopped, therefore the pressure was increased to 59

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-24 – **1**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**85 - 95**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	13.6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	16.38	Liner Head (f bgs):	2.25	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59 (use 70)	Purge Volume (L):	4.23
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.67	15.80	17.32	18.59	
pH (S.U.)	8.34	8.14	8.24	8.14	
Conductivity (mS/cm)	0.420	0.413	0.410	0.398	
ORP (mV)	-247	-208	-109	-69	
Turbidity (NTU)	0.0	1.1	5.0	5.6	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:13:44	8:43:14	9:12:33	9:44:18	
Stop Time (hh:mm:ss)	8:22:22	8:45:49	9:15:02	9:46:48	
Tot Purge Time (hh:mm:ss)	0:08:38	0:02:35	0:02:29	0:02:30	
Volume Purged (L)	2.800	2.050	2.230	2.200	
Tot Vol Purged (L)					
Odor Observations			sulfuric	sulfuric	
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:25:48	**End Time** (hh:mm:ss):	12:13:30

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70

during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-24	–	2

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**135 - 145**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	13.6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	14.75	Liner Head (f bgs):	2.25	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59 (use 70)	Purge Volume (L):	4.30
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.20

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.23	15.88	14.63	17.12	
pH (S.U.)	7.47	7.57	7.82	7.86	
Conductivity (mS/cm)	0.555	0.548	0.592	0.620	
ORP (mV)	-225	-151	-46	38	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.0	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:13:44	8:43:14	9:12:33	9:44:18	
Stop Time (hh:mm:ss)	8:23:26	8:46:47	9:15:59	9:47:41	
Tot Purge Time (hh:mm:ss)	0:09:42	0:03:33	0:03:26	0:03:23	
Volume Purged (L)	3.500	2.755	2.970	3.075	
Tot Vol Purged (L)					
Odor Observations	sulfuric		sulfuric		
Visual Obervations			cloudy		

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRT6

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:25:48	**End Time** (hh:mm:ss):	11:43:41

Sample Analytes and Bottles:

X	VOCs	40 mL Vial	X	Metals	500 mL HDPE		PCB Congeners	1L amber
X	SVOCs	1L amber	X	Pesticides	1L amber		Dioxins	1L amber
			X	PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70

during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-24 – **3**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**240 - 250**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	13.6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	15.07	Liner Head (f bgs):	2.25	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59 (use 70)	Purge Volume (L):	4.34
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.36

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.32	15.40	16.42	16.52	
pH (S.U.)	8.20	8.08	8.17	8.15	
Conductivity (mS/cm)	0.481	0.467	0.454	0.451	
ORP (mV)	-259	-210	-97	-53	
Turbidity (NTU)	1.1	10.4	9.1	5.3	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:13:44	8:43:14	9:12:33	9:44:18	
Stop Time (hh:mm:ss)	8:23:33	8:46:58	9:16:08	9:47:48	
Tot Purge Time (hh:mm:ss)	0:09:49	0:03:44	0:03:35	0:03:30	
Volume Purged (L)	3.800	2.900	3.270	3.250	
Tot Vol Purged (L)					
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:25:48	**End Time** (hh:mm:ss):	11:47:27

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70

during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-24 – **4**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**332 - 342**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	13.6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	15.35	Liner Head (f bgs):	2.25	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59 (use 70)	Purge Volume (L):	4.39
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.56

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.60	15.13	14.79	15.68	
pH (S.U.)	7.50	7.53	7.78	7.80	
Conductivity (mS/cm)	0.656	0.650	0.635	0.620	
ORP (mV)	-211	-151	-18	50	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:13:44	8:43:14	9:12:33	9:44:18	
Stop Time (hh:mm:ss)	8:23:47	8:47:12	9:16:18	9:47:57	
Tot Purge Time (hh:mm:ss)	0:10:03	0:03:58	0:03:45	0:03:39	
Volume Purged (L)	3.900	3.000	3.230	3.290	
Tot Vol Purged (L)					
Odor Observations		sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRT6

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:10:17	**End Time** (hh:mm:ss):	11:27:13

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70

during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-24 – **5**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**370 - 380**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	13.6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	12.88	Liner Head (f bgs):	2.25	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59 (use 70)	Purge Volume (L):	4.43
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.72

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.15	15.48	16.01	16.18	
pH (S.U.)	8.14	8.01	7.99	8.10	
Conductivity (mS/cm)	0.472	0.461	0.452	0.447	
ORP (mV)	-249	-200	-82	-42	
Turbidity (NTU)	0.1	0.7	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	8:13:44	8:43:14	9:12:33	9:44:18	
Stop Time (hh:mm:ss)	8:24:04	8:47:39	9:16:32	9:48:10	
Tot Purge Time (hh:mm:ss)	0:10:20	0:04:25	0:03:59	0:03:52	
Volume Purged (L)	4.120	3.250	3.460	3.530	
Tot Vol Purged (L)					
Odor Observations		sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:10:17	**End Time** (hh:mm:ss):	13:23:39

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE	**X**	FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70

during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-24	–	6

Louis Berger

1. Background Information

Date:	7/31/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	455 - 465	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	13.6

2. Water FLUTe Dilation Check

Interval Head (f bgs):	12.30	Liner Head (f bgs):	2.25	Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	59 (use 70)	Purge Volume (L):	4.47
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.88

Purge #	1	2	3	4	5
Temperature (°C)	15.11	15.11	15.16	15.70	
pH (S.U.)	7.46	7.44	7.65	7.67	
Conductivity (mS/cm)	0.873	0.850	0.853	0.848	
ORP (mV)	-200	-160	-43	75	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.06	0.50	
Start Time (hh:mm:ss)	8:13:44	8:43:14	9:12:33	9:44:18	
Stop Time (hh:mm:ss)	8:24:13	8:47:35	9:16:48	9:48:21	
Tot Purge Time (hh:mm:ss)	0:10:29	0:04:21	0:04:15	0:04:03	
Volume Purged (L)	3.740	3.070	3.675	3.580	
Tot Vol Purged (L)					
Odor Observations		sulfuric	sulfuric		
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRT6

4. Sample Collection

Sampling Pressure (psi):	42	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:10:17	**End Time** (hh:mm:ss):	12:20:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

X	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70

during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25 – **1**

Louis Berger

1. Background Information

Date:	**8/3/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**85 - 95**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	25.90	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.23
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.25	14.44	14.14	15.38	15.21
pH (S.U.)	7.64	7.69	7.80	7.87	7.90
Conductivity (mS/cm)	0.542	0.501	0.497	0.475	0.474
ORP (mV)	-129	-65	27	43	63
Turbidity (NTU)	10.2	15.8	24.7	16.4	23.4
Dissolved O (mg/L)	0.00	0.00	0.00	2.24	0.00
Start Time (hh:mm:ss)	8:04:34	8:26:06	8:46:21	9:11:17	9:35:52
Stop Time (hh:mm:ss)	8:09:00	8:29:30	8:49:30	9:14:27	9:38:53
Tot Purge Time (hh:mm:ss)	0:04:26	0:03:24	0:03:09	0:03:10	0:03:01
Volume Purged (L)	3.040	2.430	2.440	2.620	2.620
Tot Vol Purged (L)		5.470	7.910	10.530	13.150
Odor Observations	sulfuric	sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:02:15	**End Time** (hh:mm:ss):	11:23:04

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	2

Louis Berger

1. Background Information

Date:	8/3/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	175 - 185	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.20	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.30
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.20

Purge #	1	2	3	4	5
Temperature (°C)	13.64	13.95	14.13	13.56	13.28
pH (S.U.)	7.30	7.54	7.56	7.61	7.69
Conductivity (mS/cm)	0.403	0.397	0.394	0.395	0.397
ORP (mV)	-68	44	134	149	151
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0
Dissolved O (mg/L)	0.0	0.00	0.42	1.83	1.47
Start Time (hh:mm:ss)	8:04:34	8:26:06	8:46:21	9:11:17	9:35:52
Stop Time (hh:mm:ss)	8:09:25	8:29:59	8:49:56	9:14:54	9:39:18
Tot Purge Time (hh:mm:ss)	0:04:51	0:03:53	0:03:35	0:03:37	0:03:26
Volume Purged (L)	3.850	2.730	2.680	2.970	2.945
Tot Vol Purged (L)		6.580	9.260	12.230	15.175
Odor Observations	sulfuric	light sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:19:49	**End Time** (hh:mm:ss):	11:18:02

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	3

Louis Berger

1. Background Information

Date:	8/3/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	200 - 210	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.61	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.34
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.36

Purge #	1	2	3	4	5
Temperature (°C)	15.09	14.46	14.07	14.40	14.50
pH (S.U.)	7.91	7.76	7.82	7.93	7.96
Conductivity (mS/cm)	0.518	0.511	0.510	0.501	0.500
ORP (mV)	-133	-72	29	42	64
Turbidity (NTU)	1.1	10.9	3.5	1.7	1.4
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00
Start Time (hh:mm:ss)	8:04:34	8:26:06	8:46:21	9:11:17	9:35:52
Stop Time (hh:mm:ss)	8:09:25	8:30:08	8:50:06	9:15:02	9:39:26
Tot Purge Time (hh:mm:ss)	0:04:51	0:04:02	0:03:45	0:03:45	0:03:34
Volume Purged (L)	3.980	2.940	2.935	3.070	3.050
Tot Vol Purged (L)		6.920	9.855	12.925	15.975
Odor Observations	sulfuric				slight sulfuric
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:02:15	**End Time** (hh:mm:ss):	11:22:14

Sample Analytes and Bottles:

X	VOCs	40 mL Vial	X	Metals	500 mL HDPE		PCB Congeners	1L amber
X	SVOCs	1L amber	X	Pesticides	1L amber		Dioxins	1L amber
			X	PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25 – **4**

Louis Berger

1. Background Information

Date:	**8/3/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**275 - 285**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	21.28	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.39
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.56

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	13.51	13.42	13.60	13.60	13.40
pH (S.U.)	7.35	7.44	7.45	7.48	7.50
Conductivity (mS/cm)	0.480	0.477	0.481	0.485	0.492
ORP (mV)	-93	55	138	153	159
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.08
Start Time (hh:mm:ss)	8:04:34	8:26:06	8:46:21	9:11:17	9:35:52
Stop Time (hh:mm:ss)	8:09:37	8:30:23	8:50:18	9:15:11	9:39:37
Tot Purge Time (hh:mm:ss)	0:05:03	0:04:17	0:03:57	0:03:54	0:03:45
Volume Purged (L)	3.890	2.920	2.900	3.150	3.175
Tot Vol Purged (L)		6.810	9.710	12.860	16.035
Odor Observations	sulfuric	light sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:02:15	**End Time** (hh:mm:ss):	11:23:19

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25 – **5**

Louis Berger

1. Background Information

Date:	**8/3/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**345 - 355**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	22.15	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.43
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.72

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.74	14.12	14.38	14.35	14.15
pH (S.U.)	7.80	7.73	7.87	7.93	7.98
Conductivity (mS/cm)	0.464	0.465	0.442	0.435	0.432
ORP (mV)	-133	-74	21	45	50
Turbidity (NTU)	2.0	8.7	3.7	2.1	1.7
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00
Start Time (hh:mm:ss)	8:04:34	8:26:06	8:46:21	9:11:17	9:35:52
Stop Time (hh:mm:ss)	8:09:33	8:30:40	8:50:30	9:15:25	9:39:47
Tot Purge Time (hh:mm:ss)	0:04:59	0:04:34	0:04:09	0:04:08	0:03:55
Volume Purged (L)	3.940	3.140	3.160	3.450	3.350
Tot Vol Purged (L)		7.080	10.240	13.690	17.040
Odor Observations	sulfuric	sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:19:49	**End Time** (hh:mm:ss):	11:13:19

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	6

Louis Berger

1. Background Information

Date:	8/3/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	435 - 445	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.52	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.47
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.88

Purge #	1	2	3	4	5
Temperature (°C)	13.56	13.52	13.62	13.65	13.63
pH (S.U.)	7.47	7.60	7.59	7.64	7.68
Conductivity (mS/cm)	0.359	0.356	0.355	0.357	0.357
ORP (mV)	-96	61	133	148	153
Turbidity (NTU)	124	702	161	67.8	39.7
Dissolved O (mg/L)	0.00	0.05	0.90	0.73	0.60
Start Time (hh:mm:ss)	8:04:34	8:26:06	8:46:21	9:11:17	9:35:52
Stop Time (hh:mm:ss)	8:09:53	8:30:44	8:51:13	9:16:09	9:40:22
Tot Purge Time (hh:mm:ss)	0:05:19	0:04:38	0:04:52	0:04:52	0:04:30
Volume Purged (L)	4.000	2.880	3.120	3.330	3.700
Tot Vol Purged (L)		6.880	10.000	13.330	17.030
Odor Observations	light sulfuric		slightly sulfuric		
Visual Obervations	murky brown, cloudy	murky brown, cloudier than before, can see sediment	murky brown, earthy	slight brown tinge	

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	10:19:49	**End Time** (hh:mm:ss):	11:12:15

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the metals bottle came out a little red, cloudy and murky. The VOCs seemed to be ok.
During the 2nd, 3rd and 4th purge, the flow just stopped. The pressure was raised to 72 and it blew.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25 – **1**

Louis Berger

1. Background Information

Date:	**8/10/2017**	Sampler(s):	**PT, AG, EZ**
Port Interval (f bgs):	**85 - 95**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	25.90	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.23
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.27	15.98	16.97	15.99	15.90
pH (S.U.)	7.73	7.84	7.70	7.92	7.96
Conductivity (mS/cm)	0.399	0.403	0.406	0.403	0.392
ORP (mV)	250	306	312	277	283
Turbidity (NTU)	6.8	17.1	16.7	2.0	0.9
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	3.01
Start Time (hh:mm:ss)	12:39:10	12:58:32	13:20:05	13:42:28	14:00:18
Stop Time (hh:mm:ss)	12:42:51	13:01:19	13:23:01	13:45:25	14:02:56
Tot Purge Time (hh:mm:ss)	0:03:41	0:02:47	0:02:56	0:02:57	0:02:38
Volume Purged (L)	3.350	2.200	2.410	2.450	2.110
Tot Vol Purged (L)		5.550	7.960	10.410	12.520
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:37:05	**End Time** (hh:mm:ss):	14:39:17

Sample Analytes and Bottles:

X	VOCs	40 mL Vial		Metals	500 mL HDPE		PCB Congeners	1L amber
	SVOCs	1L amber		Pesticides	1L amber		Dioxins	1L amber
				PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	2

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	175 - 185	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	20.20	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.30
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.20

Purge #	1	2	3	4	5
Temperature (°C)	19.59	17.05	16.74	16.60	17.85
pH (S.U.)	8.51	7.99	7.74	7.80	8.04
Conductivity (mS/cm)	0.407	0.407	0.416	0.408	0.412
ORP (mV)	24	136	159	168	144
Turbidity (NTU)	1.2	0.7	3.6	0.3	0.0
Dissolved O (mg/L)	0.55	0.33	1.73	1.93	2.03
Start Time (hh:mm:ss)	12:39:10	12:58:32	13:20:05	13:42:28	14:00:18
Stop Time (hh:mm:ss)	12:43:11	13:01:42	13:23:21	13:45:47	14:03:18
Tot Purge Time (hh:mm:ss)	0:04:01	0:03:10	0:03:16	0:03:19	0:03:00
Volume Purged (L)	3.670	2.300	2.750	3.000	2.45
Tot Vol Purged (L)		5.970	8.720	11.720	14.170
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:37:05	**End Time** (hh:mm:ss):	14:41:37

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	3

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	200 - 210	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.61	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.34
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.36

Purge #	1	2	3	4	5
Temperature (°C)	15.06	14.12	14.17	14.61	15.24
pH (S.U.)	7.73	7.67	7.72	7.86	7.93
Conductivity (mS/cm)	0.424	0.430	0.431	0.429	0.428
ORP (mV)	237	311	307	280	284
Turbidity (NTU)	0.0	3.5	0.9	0.0	0.0
Dissolved O (mg/L)	0.81	2.15	0.00	0.00	0.00
Start Time (hh:mm:ss)	12:39:10	12:58:32	13:20:05	13:42:28	14:00:18
Stop Time (hh:mm:ss)	12:43:15	13:01:50	13:23:30	13:45:53	14:03:24
Tot Purge Time (hh:mm:ss)	0:04:05	0:03:18	0:03:25	0:03:25	0:03:06
Volume Purged (L)	3.720	2.640	2.830	2.830	2.610
Tot Vol Purged (L)		6.360	9.190	12.020	14.630
Odor Observations		slightly sulfuric			
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:37:05	**End Time** (hh:mm:ss):	14:39:58

Sample Analytes and Bottles:

X	VOCs	40 mL Vial		Metals	500 mL HDPE		PCB Congeners	1L amber
	SVOCs	1L amber		Pesticides	1L amber		Dioxins	1L amber
				PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD	X	VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25 – **4**

Louis Berger

1. Background Information

Date:	**8/10/2017**	Sampler(s):	**PT, AG, EZ**
Port Interval (f bgs):	**275 - 285**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	21.28	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.39
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.56

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.06	15.20	14.57	15.39	15.62
pH (S.U.)	8.27	7.84	7.60	7.71	7.89
Conductivity (mS/cm)	0.515	0.507	0.512	0.514	0.514
ORP (mV)	53	140	166	170	146
Turbidity (NTU)	0.0	2.7	0.9	0.0	0.3
Dissolved O (mg/L)	0.26	0.33	1.43	1.07	1.29
Start Time (hh:mm:ss)	12:39:10	12:58:32	13:20:05	13:42:28	14:00:18
Stop Time (hh:mm:ss)	12:43:30	13:01:59	13:23:38	13:46:04	14:03:36
Tot Purge Time (hh:mm:ss)	0:04:20	0:03:27	0:03:33	0:03:36	0:03:18
Volume Purged (L)	3.920	2.760	2.960	3.045	2.630
Tot Vol Purged (L)		6.680	9.640	12.685	15.315
Odor Observations	slightly sulfuric				
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:23:42	**End Time** (hh:mm:ss):	14:51:21

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE	X	VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs and SVOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	5

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	345 - 355	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	22.15	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.43
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.72

Purge #	1	2	3	4	5
Temperature (°C)	13.88	15.65	14.05	14.54	14.65
pH (S.U.)	7.72	7.49	7.72	7.85	7.93
Conductivity (mS/cm)	0.364	0.376	0.374	0.369	0.368
ORP (mV)	239	317	303	277	281
Turbidity (NTU)	0.0	7.3	0.7	0.0	0.0
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00
Start Time (hh:mm:ss)	12:39:10	12:58:32	13:20:05	13:42:28	14:00:18
Stop Time (hh:mm:ss)	12:43:22	13:02:09	13:23:47	13:46:15	14:03:46
Tot Purge Time (hh:mm:ss)	0:04:12	0:03:37	0:03:42	0:03:47	0:03:28
Volume Purged (L)	3.690	2.940	3.110	3.150	2.850
Tot Vol Purged (L)		6.630	9.740	12.890	15.740
Odor Observations		slightly sulfuric	slightly sulfuric		
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:23:42	**End Time** (hh:mm:ss):	14:49:56

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs and SVOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-25	–	6

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	435 - 445	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	19.04

2. Water FLUTe Dilation Check

Interval Head (f bgs):	19.52	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	62 (use 72)	Purge Volume (L):	4.47
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.88

Purge #	1	2	3	4	5
Temperature (°C)	14.65	15.02	14.66	15.01	15.43
pH (S.U.)	8.21	7.74	7.71	7.79	7.96
Conductivity (mS/cm)	0.372	0.374	0.372	0.374	0.381
ORP (mV)	65	143	160	165	143
Turbidity (NTU)	2.9	79.0	24.4	28.3	20.4
Dissolved O (mg/L)	1.13	0.77	0.92	1.58	1.95
Start Time (hh:mm:ss)	12:39:10	12:58:32	13:20:05	13:42:28	14:00:18
Stop Time (hh:mm:ss)	12:43:31	13:02:30	13:24:05	13:46:34	14:04:09
Tot Purge Time (hh:mm:ss)	0:04:21	0:03:58	0:04:00	0:04:06	0:03:51
Volume Purged (L)	3.930	2.550	3.400	3.450	3.150
Tot Vol Purged (L)		6.480	9.880	13.330	16.480
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #:

4. Sample Collection

Sampling Pressure (psi):	44	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:23:42	**End Time** (hh:mm:ss):	14:48:59

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs and SVOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26 – **1**

Louis Berger

1. Background Information

Date:	**8/2/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**95 - 105**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.84 pf	Liner Head (f bgs):	0.34 f btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.23
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	19.86	19.29	18.56	21.00	
pH (S.U.)	7.68	7.66	7.96	8.04	
Conductivity (mS/cm)	0.363	0.381	0.369	0.373	
ORP (mV)	-180	-126	21	39	
Turbidity (NTU)	46.0	61.3	30.2	21.4	
Dissolved O (mg/L)	0.00	0.00	2.59	0.56	
Start Time (hh:mm:ss)	11:33:13	12:00:32	12:35:28	13:18:01	
Stop Time (hh:mm:ss)	11:36:19	12:03:11	12:41:16	13:20:52	
Tot Purge Time (hh:mm:ss)	0:03:06	0:02:39	0:05:48	0:02:51	
Volume Purged (L)	2.950	2.420	2.630	2.570	
Tot Vol Purged (L)		5.370	8.000	10.570	
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:19:11	**End Time** (hh:mm:ss):	15:19:34

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26 – **2**

Louis Berger

1. Background Information

Date:	**8/2/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**175 - 185**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.07 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.30
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.20

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	19.64	18.12	19.47	18.50	
pH (S.U.)	7.67	7.96	8.05	7.94	
Conductivity (mS/cm)	0.354	0.334	0.341	0.365	
ORP (mV)	-200	-147	-79	87	
Turbidity (NTU)	0.0	31.2	0.0	0.0	
Dissolved O (mg/L)	0.0	0.00	3.21	0.37	
Start Time (hh:mm:ss)	11:33:13	12:00:32	12:38:25	13:18:01	
Stop Time (hh:mm:ss)	11:36:25	12:03:22	12:41:24	13:20:59	
Tot Purge Time (hh:mm:ss)	0:03:12	0:02:50	0:02:59	0:02:58	
Volume Purged (L)	2.950	2.560	2.750	2.840	
Tot Vol Purged (L)		5.510	8.260	11.100	
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	14:00:16	**End Time** (hh:mm:ss):	15:03:02

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26	–	3

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	255 - 265	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.57 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.34
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.36

Purge #	1	2	3	4	5
Temperature (°C)	17.33	16.95	17.25	17.19	
pH (S.U.)	7.71	7.75	8.06	8.09	
Conductivity (mS/cm)	0.302	0.315	0.311	0.303	
ORP (mV)	-194	-150	-1	44	
Turbidity (NTU)	1.9	4.7	1.2	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	1.25	
Start Time (hh:mm:ss)	11:33:13	12:00:32	12:38:25	13:18:01	
Stop Time (hh:mm:ss)	11:36:34	12:03:37	12:41:39	13:21:13	
Tot Purge Time (hh:mm:ss)	0:03:21	0:03:05	0:03:14	0:03:12	
Volume Purged (L)	3.275	2.690	2.925	2.840	
Tot Vol Purged (L)		5.965	8.890	11.730	
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:38:13	**End Time** (hh:mm:ss):	14:41:31

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26 – **4**

Louis Berger

1. Background Information

Date:	**8/2/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**305 - 320**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.91 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.39
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.56

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	16.80	15.27	17.14	16.23	
pH (S.U.)	7.56	7.74	8.02	8.08	
Conductivity (mS/cm)	0.329	0.353	0.331	0.320	
ORP (mV)	-193	-129	-14	88	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.40	1.01	
Start Time (hh:mm:ss)	11:33:13	12:00:32	12:38:25	13:18:01	
Stop Time (hh:mm:ss)	11:36:37	12:03:46	12:41:43	13:21:18	
Tot Purge Time (hh:mm:ss)	0:03:24	0:03:14	0:03:18	0:03:17	
Volume Purged (L)	3.070	2.800	3.000	3.020	
Tot Vol Purged (L)		5.870	8.870	11.890	
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:38:13	**End Time** (hh:mm:ss):	14:41:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26	–	5

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	385 - 395	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.23 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.43
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.72

Purge #	1	2	3	4	5
Temperature (°C)	17.03	16.59	16.80	16.53	
pH (S.U.)	7.57	7.64	7.92	7.91	
Conductivity (mS/cm)	0.398	0.407	0.406	0.402	
ORP (mV)	-199	-145	-7	47	
Turbidity (NTU)	0.5	0.5	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	11:33:13	12:00:32	12:38:35	13:18:01	
Stop Time (hh:mm:ss)	11:36:49	12:04:01	12:41:57	13:21:32	
Tot Purge Time (hh:mm:ss)	0:03:36	0:03:29	0:03:22	0:03:31	
Volume Purged (L)	3.090	2.750	2.975	2.955	
Tot Vol Purged (L)		5.840	8.815	11.770	
Odor Observations		sulfuric			
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:49:11	**End Time** (hh:mm:ss):	14:47:27

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

the pressure for the purges were as follows: 1st - 59; 2nd - 65; 3rd and 4th - 70
during the 1st purge, the flow was stopped 3x to change o-rings, therefore the total purge time isn't accurate

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26	–	6

Louis Berger

1. Background Information

Date:	8/2/2017	Sampler(s):	PT, DC, AG
Port Interval (f bgs):	455 - 465	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.07 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.47
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.88

Purge #	1	2	3	4	5
Temperature (°C)	16.24	15.86	16.38	15.53	
pH (S.U.)	7.53	7.63	7.84	7.93	
Conductivity (mS/cm)	0.500	0.503	0.505	0.504	
ORP (mV)	-179	-49	64	100	
Turbidity (NTU)	0.0	0.8	0.0	0.0	
Dissolved O (mg/L)	0.00	0.38	2.13	2.65	
Start Time (hh:mm:ss)	11:33:13	12:00:32	12:38:35	13:18:01	
Stop Time (hh:mm:ss)	11:36:47	12:04:06	12:41:58	13:21:35	
Tot Purge Time (hh:mm:ss)	0:03:34	0:03:34	0:03:23	0:03:34	
Volume Purged (L)	3.060	3.000	3.050	3.080	
Tot Vol Purged (L)		6.060	9.110	12.190	
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	13:49:11	**End Time** (hh:mm:ss):	14:46:52

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26 – **1**

Louis Berger

1. Background Information

Date:	**8/10/2017**	Sampler(s):	**PT, AG, EZ**
Port Interval (f bgs):	**95 - 105**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.84 pf	Liner Head (f bgs):	0.34 f btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.23
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	16.92

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.56	15.03	15.49	15.72	15.05
pH (S.U.)	7.52	7.46	7.61	7.76	7.86
Conductivity (mS/cm)	0.410	0.397	0.391	0.391	0.371
ORP (mV)	155	264	288	289	280
Turbidity (NTU)	0.0	9.7	4.7	4.1	8.4
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00
Start Time (hh:mm:ss)	9:19:08	9:43:14	10:04:58	10:28:32	10:46:59
Stop Time (hh:mm:ss)	9:22:09	9:45:47	10:07:22	10:31:00	10:49:12
Tot Purge Time (hh:mm:ss)	0:03:01	0:02:33	0:02:24	0:02:28	0:02:13
Volume Purged (L)	3.025	2.240	2.125	2.200	1.910
Tot Vol Purged (L)		5.265	7.390	9.590	11.500
Odor Observations					
Visual Obervations	bubbles on surface				

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: M8US110A

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:22:48	**End Time** (hh:mm:ss):	12:02:32

Sample Analytes and Bottles:

X	VOCs	40 mL Vial		Metals	500 mL HDPE		PCB Congeners	1L amber
X	SVOCs	1L amber		Pesticides	1L amber		Dioxins	1L amber
				PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs and SVOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26	–	2

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	175 - 185	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.07 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.30
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.20

Purge #	1	2	3	4	5
Temperature (°C)	17.80	16.56	16.23	15.07	15.27
pH (S.U.)	7.58	7.48	7.63	7.78	7.93
Conductivity (mS/cm)	0.439	0.404	0.369	0.393	0.334
ORP (mV)	92	88	63	113	139
Turbidity (NTU)	4.2	2.3	4.8	5.3	0.0
Dissolved O (mg/L)	1.33	0.40	0.62	0.61	3.74
Start Time (hh:mm:ss)	9:19:08	9:43:14	10:04:58	10:28:32	10:46:59
Stop Time (hh:mm:ss)	9:22:09	9:45:54	10:07:31	10:31:07	10:49:19
Tot Purge Time (hh:mm:ss)	0:03:01	0:02:40	0:02:33	0:02:35	0:02:20
Volume Purged (L)	2.995	2.290	2.250	2.310	2.000
Tot Vol Purged (L)		5.285	7.535	9.845	11.845
Odor Observations			slightly sulfuric		
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: YLXHW0G4

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:22:48	**End Time** (hh:mm:ss):	12:00:55

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs and SVOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26 – **3**

Louis Berger

1. Background Information

Date:	**8/10/2017**	Sampler(s):	**PT, AG, EZ**
Port Interval (f bgs):	**255 - 265**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.57 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.34
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.36

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	14.85	14.65	14.36	14.41	15.46
pH (S.U.)	7.31	7.48	7.65	7.80	7.78
Conductivity (mS/cm)	0.318	0.316	0.316	0.306	0.367
ORP (mV)	177	259	287	290	279
Turbidity (NTU)	0.0	0.0	0.0	0.0	2.5
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	0.00
Start Time (hh:mm:ss)	9:19:08	9:43:14	10:04:58	10:28:32	10:46:59
Stop Time (hh:mm:ss)	9:22:21	9:46:13	10:07:50	10:31:28	10:49:38
Tot Purge Time (hh:mm:ss)	0:03:13	0:02:59	0:02:52	0:02:56	0:02:39
Volume Purged (L)	3.110	2.580	2.540	2.585	2.260
Tot Vol Purged (L)		5.690	8.230	10.815	13.075
Odor Observations		slightly sulfuric			
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: M8US110A

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:22:48	**End Time** (hh:mm:ss):	11:59:05

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs and SVOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26 – **4**

Louis Berger

1. Background Information

Date:	**8/10/2017**	Sampler(s):	**PT, AG, EZ**
Port Interval (f bgs):	**305 - 320**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.91 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.39
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.56

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	15.67	15.53	15.27	15.10	16.24
pH (S.U.)	7.46	7.39	7.64	7.82	7.60
Conductivity (mS/cm)	0.333	0.330	0.348	0.337	0.332
ORP (mV)	99	102	62	107	152
Turbidity (NTU)	0.1	0.0	0.0	0.0	0.0
Dissolved O (mg/L)	0.27	0.36	1.60	2.55	1.75
Start Time (hh:mm:ss)	9:19:08	9:43:14	10:04:58	10:28:32	10:46:59
Stop Time (hh:mm:ss)	9:22:22	9:46:22	10:08:00	10:31:36	10:49:49
Tot Purge Time (hh:mm:ss)	0:03:14	0:03:08	0:03:02	0:03:04	0:02:50
Volume Purged (L)	3.120	2.660	2.570	2.520	2.380
Tot Vol Purged (L)		5.780	8.350	10.870	13.250
Odor Observations	silghtly sulfuric				
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: YLXHW0G4

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:33:19	**End Time** (hh:mm:ss):	11:37:11

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26	–	5

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	385 - 395	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.23 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.43
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.72

Purge #	1	2	3	4	5
Temperature (°C)	14.81	14.44	14.31	14.30	14.53
pH (S.U.)	7.19	7.32	7.53	7.67	7.77
Conductivity (mS/cm)	0.412	0.414	0.417	0.411	0.308
ORP (mV)	189	261	285	286	277
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0
Dissolved O (mg/L)	2.00	0.00	0.00	0.00	0.00
Start Time (hh:mm:ss)	9:19:08	9:43:14	10:04:58	10:28:32	10:46:59
Stop Time (hh:mm:ss)	9:22:33	9:46:41	10:08:23	10:31:56	10:50:14
Tot Purge Time (hh:mm:ss)	0:03:25	0:03:27	0:03:25	0:03:24	0:03:15
Volume Purged (L)	3.120	2.810	2.700	2.790	2.540
Tot Vol Purged (L)		5.930	8.630	11.420	13.960
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	M8US110A

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:33:19	**End Time** (hh:mm:ss):	11:36:24

Sample Analytes and Bottles:

X	VOCs	40 mL Vial		Metals	500 mL HDPE		PCB Congeners	1L amber
	SVOCs	1L amber		Pesticides	1L amber		Dioxins	1L amber
				PCB Aroclors	1L amber			

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs only.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-26	–	6

Louis Berger

1. Background Information

Date:	8/10/2017	Sampler(s):	PT, AG, EZ
Port Interval (f bgs):	455 - 465	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.07 pf	Liner Head (f bgs):	0.34 ft btoc	Date:	8/2/2017

3. Purges of Port Interval:

Purge Pressure (psi):	58	Purge Volume (L):	4.47
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.88

Purge #	1	2	3	4	5
Temperature (°C)	15.81	15.41	15.25	15.40	16.32
pH (S.U.)	7.30	7.30	7.58	7.69	7.58
Conductivity (mS/cm)	0.531	0.525	0.524	0.532	0.526
ORP (mV)	126	112	98	131	151
Turbidity (NTU)	1.7	9.9	4.9	1.4	1.6
Dissolved O (mg/L)	1.33	1.79	2.98	3.08	4.05
Start Time (hh:mm:ss)	9:19:08	9:43:14	10:04:58	10:28:32	10:46:59
Stop Time (hh:mm:ss)	9:22:33	9:46:50	10:08:37	10:32:04	10:50:27
Tot Purge Time (hh:mm:ss)	0:03:25	0:03:36	0:03:39	0:03:32	0:03:28
Volume Purged (L)	3.140	2.930	2.860	2.940	2.375
Tot Vol Purged (L)		6.070	8.930	11.870	14.245
Odor Observations					
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	YLXHW0G4

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	11:33:19	**End Time** (hh:mm:ss):	11:35:28

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
	SVOCs	1L amber

	Metals	500 mL HDPE
	Pesticides	1L amber
	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

Resampling for VOCs only.

By the last purge, the flow just petered out, it didn't blow.

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-27 – **1**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**85 - 95**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	10.97	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	58 (use 66)	Purge Volume (L):	4.31
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.24

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.11	21.29	20.16	19.09	
pH (S.U.)	8.00	7.78	8.18	7.98	
Conductivity (mS/cm)	0.330	0.426	0.348	0.440	
ORP (mV)	-178	-88	9	50	
Turbidity (NTU)	0.0	9.1	6.6	1.9	
Dissolved O (mg/L)	0.00	8.35	0.00	1.05	
Start Time (hh:mm:ss)	13:47:37	14:14:22	14:42:08	15:10:52	
Stop Time (hh:mm:ss)	13:52:27	14:18:20	14:45:58	15:14:25	
Tot Purge Time (hh:mm:ss)	0:04:50	0:03:58	0:03:50	0:03:33	
Volume Purged (L)	3.950	3.090	3.000	2.950	
Tot Vol Purged (L)		7.040	10.040	12.990	
Odor Observations		sulfuric			
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	15:39:40	**End Time** (hh:mm:ss):	16:59:07

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

purge 3 was done at 60 psi and purge 4 at 66 psi

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-27 – **2**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**180 - 190**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	8.78	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	58 (use 66)	Purge Volume (L):	4.38
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.52

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	20.29	19.97	19.61	19.07	
pH (S.U.)	7.33	7.98	6.02	7.66	
Conductivity (mS/cm)	0.426	0.417	0.432	0.432	
ORP (mV)	-193	-44	31	54	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	4.12	0.00	0.00	0.00	
Start Time (hh:mm:ss)	13:47:37	14:14:22	14:42:08	15:10:52	
Stop Time (hh:mm:ss)	13:52:39	14:18:41	14:46:19	15:14:45	
Tot Purge Time (hh:mm:ss)	0:05:02	0:04:19	0:04:11	0:03:53	
Volume Purged (L)	4.500	3.095	3.230	3.270	
Tot Vol Purged (L)		7.595	10.825	14.095	
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model: Horiba U-52 (NJDEP Certified) Serial #: 4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	15:39:40	**End Time** (hh:mm:ss):	16:45:10

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

purge 3 was done at 60 psi and purge 4 at 66 psi

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-27 – **3**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**225 - 235**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	9.59	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	58 (use 66)	Purge Volume (L):	4.42
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.68

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.63	17.94	17.15	16.83	
pH (S.U.)	7.98	8.25	8.42	8.51	
Conductivity (mS/cm)	0.199	0.272	0.272	0.266	
ORP (mV)	-177	-129	-7	41	
Turbidity (NTU)	1.8	0.0	0.0	0.0	
Dissolved O (mg/L)	0.00	0.00	0.00	0.00	
Start Time (hh:mm:ss)	13:47:37	14:14:22	14:42:08	15:10:52	
Stop Time (hh:mm:ss)	13:52:43	14:18:59	14:46:33	15:14:57	
Tot Purge Time (hh:mm:ss)	0:05:06	0:04:37	0:04:25	0:04:05	
Volume Purged (L)	3.980	3.340	3.450	3.440	
Tot Vol Purged (L)		7.320	10.770	14.210	
Odor Observations	sulfuric	sulfuric			
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	15:32:21	**End Time** (hh:mm:ss):	16:42:25

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

purge 3 was done at 60 psi and purge 4 at 66 psi

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-27 – **4**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**370 - 380**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.05	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	58 (use 66)	Purge Volume (L):	4.46
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	17.84

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	18.90	17.40	15.60	16.44	
pH (S.U.)	7.39	7.64	7.86	7.75	
Conductivity (mS/cm)	0.373	0.393	0.399	0.385	
ORP (mV)	-171	-35	61	85	
Turbidity (NTU)	0.0	0.0	0.0	0.0	
Dissolved O (mg/L)	0.93	0.55	1.69	2.64	
Start Time (hh:mm:ss)	13:47:37	14:14:22	14:42:08	15:10:52	
Stop Time (hh:mm:ss)	13:53:22	14:19:21	14:47:11	15:15:31	
Tot Purge Time (hh:mm:ss)	0:05:45	0:04:59	0:05:03	0:04:39	
Volume Purged (L)	4.000	3.290	3.360	3.790	
Tot Vol Purged (L)		7.290	10.650	14.440	
Odor Observations					
Visual Obervations		black specs, fine sand	black specs		

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	4WLALFEW

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	15:32:21	**End Time** (hh:mm:ss):	16:28:21

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

purge 3 was done at 60 psi and purge 4 at 66 psi
during the 2nd and 3rd purge, the flow just stopped

WATER FLUTE PURGE AND SAMPLING LOG

Project: Cornell - Dubilier Electronics Superfund Site
Task: OU3 GROUNDWATER SAMPLING ROUND II

MW-27 – **5**

Louis Berger

1. Background Information

Date:	**7/31/2017**	Sampler(s):	**PT, DC, AG**
Port Interval (f bgs):	**460 - 470**	Installation Date:	
Concentration Level:	trace	Water Table (f bgs):	10

2. Water FLUTe Dilation Check

Interval Head (f bgs):	7.84	Liner Head (f bgs):		Date:	July-17

3. Purges of Port Interval:

Purge Pressure (psi):	58 (use 66)	Purge Volume (L):	4.51
Suggested Number of Purges:	4	Approx. 4x Purge Volume (L):	18.04

Purge #	**1**	**2**	**3**	**4**	**5**
Temperature (°C)	17.75	17.67	17.36	17.10	
pH (S.U.)	8.01	8.14	8.23	8.32	
Conductivity (mS/cm)	0.354	0.349	0.349	0.348	
ORP (mV)	-226	-112	-6	55	
Turbidity (NTU)	3.1	14.0	8.5	5.0	
Dissolved O (mg/L)	0.00	0.00	0.22	1.10	
Start Time (hh:mm:ss)	13:47:37	14:14:22	14:42:08	15:10:52	
Stop Time (hh:mm:ss)	13:53:19	14:19:21	14:47:03	15:16:08	
Tot Purge Time (hh:mm:ss)	0:05:42	0:04:59	0:04:55	0:05:16	
Volume Purged (L)	4.110	3.380	3.570	4.000	
Tot Vol Purged (L)		7.490	11.060	15.060	
Odor Observations	sulfuric				
Visual Obervations					

Water Quality Meter Make & Model:	Horiba U-52 (NJDEP Certified)	Serial #:	P8D0BRJ6

4. Sample Collection

Sampling Pressure (psi):	41	Volume Discarded (L):	0.300
Start Time (hh:mm:ss):	15:32:21	**End Time** (hh:mm:ss):	16:32:39

Sample Analytes and Bottles:

X	VOCs	40 mL Vial
X	SVOCs	1L amber

X	Metals	500 mL HDPE
X	Pesticides	1L amber
X	PCB Aroclors	1L amber

	PCB Congeners	1L amber
	Dioxins	1L amber

Sample QAQC (if applicable):

	FULL DUPLICATE		FULL MS/MSD		VOC DUPLICATE		VOC MS/MSD

Notes and Maintenance Issues:

purge 3 was done at 60 psi and purge 4 at 66 psi
during the 2nd and 3rd purge, the flow just stopped

Appendix H – FLUTe™ System Sampling Procedure

FLUTe™ Flexible Liner Underground Technologies, Ltd. L.C.
For a medley of innovative designs
6 Easy St., Santa Fe, NM 87504
505-455-1300, www.flut.com

Sampling guidelines for *Water FLUTe* systems installed prior to May, 2009

Rev. April, 2010

Water level in the liner.

The liner water level should be 10 ft above the highest formation water level to provide a good seal of the liner in the hole (5 ft minimum excess head). The formation water level can be measured via the "pump tube" for each port. The water level inside the liner should be tagged in the ½" id tube labeled "TAG" adjacent to the sampling tubes. If the water level inside the liner is measured in the liner, outside the Tag Tube, lower the weighted tag line very slowly to avoid damage to the liner. Water can be added to the liner by simply pouring water into the liner or through the TAG tube, whichever is easier. Do not fill the liner more than 10 ft above the highest formation water level. The water level in the liner should be checked prior to each sampling episode. (Beware that filling the liner with de-ionized water can give a false water level reading.)

Water flow

The water flow into the pumping system is shown in Fig. 1. Water flows from the formation through the spacer pore space, through the port tube, through the first check valve, and fills the "pump tube". The "sample tube" is also filled at the same time. The water level rises in the pump tube to the water table for that port.

Setting up the gas pressure source

The water is pumped with gas pressure. The FLUTe pump design is such that there is very low risk of aeration of the sample. The gas source is usually a nitrogen bottle with a regulator for setting the prescribed driving pressure. The arrangement of the FLUTe gas drive system is shown in Fig. 2. The regulator is set to the proper gas pressure defined later by closing the three way valve to prevent gas flow out of the quick connect fitting. The pressure gauge on the FLUTe pump driver is much more sensitive than the regulator for setting the regulator pressure. The FLUTe pump driver must be securely connected to the regulator at the normal ¼" NPT connection on the regulator outlet.

The regulator is attached to the top fitting on the gas bottle (a special nitrogen regulator fitting connects to a nitrogen bottle). Turn the pressure regulator handle counter-clockwise until is moves freely (the no pressure position). Rotate the main valve on the regulator (nearer the bottle) clockwise to fully closed. Open the valve on the bottle (counter clockwise). The main bottle pressure gauge on the regulator will rise to the bottle pressure. Close the regulator valve (clockwise) until the pressure starts to rise on the pressure gauge on the FLUTe pump driver (three way valve closed with no flow out of the quick connect). Adjust the regulator to the desired pressure for purging, provided by FLUTe. Remove the plug of each pump tube and connect the quick connect to the top fitting of the pump tube (see Fig. 2). Open the three way valve to drive the water out of the pump.

Purging

Water is pumped from the tubing by applying the gas pressure to the interface at the static water level in the pump tube (Fig. 1 and 2). The water is driven down in the pump tube and up through the second check valve to the surface via the sample tube. Drive the water with a sufficient gas pressure (the "recommended purge pressure") to drive all of the water in the pump tube and the sample tube to the surface, the water in the pump tubing is nearly all expelled. The purge stroke is complete when gas is expelled from the sample tube following the water flow. <u>The pressure in the system must then be vented (i.e., dropped to atmospheric by turning the three way valve to the vent position)</u>, to allow the pump tube to refill with flow via the port tube. The recharge flow from the port tube consists of the port tube water, the water in the pore space of the spacer, and water from the medium. Because of the relatively large volume in the pump tube, most of the recharge is from the medium. The recharge will take about as long as the first purge stroke. However, a low conductivity medium will require more time.

Purging the pump tube a second time will remove any of the water that has resided in the spacer and port tube volume. That is highly recommended, since the water resident in the tubing and spacer is probably not typical of the formation water. If the refill has been prompt, the second purge water volume will be similar to the first stroke. If in doubt, or if in a sedimentary formation or screened well, a third purge stroke is recommended to remove water that may have been in long contact with the liner or spacer.

Sampling

The sampling flow is best driven on the third (or fourth) cycle by a "recommended sampling pressure" which is less than that needed to drive gas through the bottom of the pump tube. The pressure recommended is that which will drive the water to near, but not out of, the bottom of the large tube. That recommended pressure, "the sampling pressure," is calculated in the spreadsheet provided with each system. The pressure regulator is set to the sample pressure, which is lower than the purge pressure. Opening the three way valve will now apply the sample pressure to the system causing flow from the sample tube.

The first flow of the sampling cycle sweeps along droplets of water left in the tubing from the purge cycle. That residual water is depleted of volatile components. Tests have shown that the first tube volume of the sample flow should be discarded as depleted in volatiles (the "discard volume" is also calculated in the spreadsheet). Thereafter, the samples can be collected from the sample tube outflow. The volume to be discarded is shown in the spreadsheet as "discard volume". The sample tube water flow rate will start fast, then slow, and finally stop. That occurs as the water column being driven approaches the applied pressure/head. The typical sampling pressure drives to within 25 ft. of the bottom of the pump tube (the U). The large buffer zone remaining in the pump tube assures against aeration of the sample.

This procedure should provide an ample sample of good quality drawn directly from the formation.

Caution: If the pumping system refills very slowly, there may not be sufficient water in the pump to fill the "sample tube" to the surface when the stroke is performed. In that case, there will be spitting of gas from the sample water and it will be followed by a flow of gas only. The sample water should never show "spitting" and the sample stroke should never end with gas flow from the sample tube. The proper sample flow will slow until it stops flowing. Should this evidence of insufficient recharge be observed, allow the pump to refill for a longer time and repeat the sample stroke. One can tag the water level in the large tube, as described in the head

measurement procedure, to assure that the pumping system has been sufficient refilled.

Measuring the head in the system

The water level at each port can be manually measured by removing the plug from the top of the pump tube and lowering a slender (~1/4") electric water level meter until it contacts the water level in the pump tube. It is not recommended to manually tag water levels more than 200 ft below the surface. The wet film adhesion may prevent the removal of the tag line. A special Teflon coated tag line can be used to extend that limit.

The water level in the large tubes may not be the current water level. After sampling, if there is any leakage of the second check valve (sand in the tube, etc…) the water in the sample tube can backflow into the larger tube, adding to the water that fills the large tube during the recharge. Also, if the water level in the formation is dropping between head measurements, the water level in the pump tube will not follow the descent if the first check valve is a good seal. For these two reasons, and for the freezing concern below, it is best to <u>finish the sampling stroke by raising the pressure to the "purge pressure" value</u> to purge the pumping system of all water. Then upon refilling, the level is the current head for each port. If head measurements are made between sampling events, <u>each port's pumping system should be first be purged</u> to allow the tubing to refill to the current head value. Always replace the plugs in the top of the pump tubes when finished sampling.

If the water might freeze in the sampling tubing near the surface, purge the entire volume of water from each sampling line, after sampling, before leaving it. Use the recommended purge pressure to remove all water, <u>not the sampling pressure</u>. **Each line should be blowing gas when the purge is complete.** If the lines were purged after sampling for head measurements, that is sufficient.

If the Water FLUTe uses PVDF tubing, the purge of the entire system after sampling should not be neglected, even if head measurements are not to be made. This removes the water column in the sampling tube. For deep water tables, the long term pressure of the standing water in the sampling tube might lead to excessive creep of the tubing which is susceptible to "cold flow", a characteristic of Teflon like materials. (This is not a concern except for very deep water tables (>300 ft).

In most cases, the performance of a final purge of the system after sampling is useful, even if not essential.

Simultaneous purge and sampling of all tubes

The FLUTe pumping system for each port is essentially identical in length, pump volume and elevation in the hole. This allows all ports to be purged and sampled simultaneously for a great saving in sampling time. The only difference for simultaneous sampling is that the pressure source must include a tube to each port fitting at the wellhead. FLUTe offers a manifold pump driver system at extra cost (the single port driver is provided with the Water FLUTe). The recommended purge and sample pressures are the same as used for single port sampling.

In some cases, the buoyancy of the sampling system is so great when emptied of water during the simultaneous purge that the tubing bundle can cause the liner to invert. The sampling volume spreadsheet provided with the liner notes whether the system can be purged simultaneously. This is only a problem for smaller hole diameters, many ports, and a small excess head in the liner. However, increasing the excess head in the liner to overcome the buoyancy of the tubing can be a hazard to the liner.

A short summary is provided as the following checklist:

<u>Check List</u>

1. Check/restore the water level in the liner.
2. Connect the gas driver source to the gas drive tube for the port.
3. Set the regulator to the recommended purge pressure.
4. Expel the tube water at the suggested purge pressure. Collect the purged water volume for verification of a good purge. Note the water flow time of the purge stroke.
5. Allow the tubing to refill. Repeat the purge. Collect the purge volume to assure the amount removed is at least the “port tube volume”. Was the refill long enough?
6. Purge a third time, if desired.
7. Allow the tubing to refill for the sample stroke.

8. Reduce the driving pressure to the "sampling pressure". Apply the pressure and collect the first flow to measure the discard volume. Discard that water.
9. Reduce the pressure, if needed, to slow the flow and collect the samples.
10. Perform a final purge of the water out of the sampling lines by raising the driving pressure to the purge pressure value.
11. When the sampling system has refilled, tag the water level, if desired, for the current water table. If a port system is refilling very slowly, tag it at a later time.

See the spreadsheet provided with each *Water FLUTe* for the recommended purge and sampling pressures. Those are the pressures that can be used for a simultaneous purge of the several ports, but be sure that the buoyancy of the tubing will not lift the tubing, and the wellhead. The spreadsheet flags the condition where all ports should not be purged simultaneously. In most cases, several, to all, of the ports can be purged simultaneously.

Optimum sampling procedure:
Since it is often desirable to minimize the amount of time that the sample water resides in the pumping tubing, it is useful to note the actual time that is required for the recharge of the system. Since the fill rate slows dramatically for the last portion of the recharge, it is not necessary to wait for a complete refill. For most formations, the recharge is dominated by the tubing pressure drop. In that case, the time required for the purge stroke to be completed is about the same time required for the refill. (The exception is for a tight formation that recharges the tubing very slowly.) Hence the second purge can be started after waiting the same length of time as the first purge endured. If the second purge is of a similar volume (usually somewhat less) than the first purge volume, the refill time was long enough. After the same delay, the sampling stroke can be initiated. This timing of the strokes allows one to reduce the retention time in the pumping system. For very large sample volumes produced, the refill time can be shortened even more, as long as the sample volume is adequate after the discard of the first flow.

In some situations, the retention time is still too long. FLUTe can often increase the sample tube and port tube diameters for greater flow rates. However, the standard design is well matched for to a wide range of hole diameters, depths, and water table elevations. For very deep wells, the

tubing may need to be of higher pressure capacity for the required driving pressures. For water table depths below 700 ft., this may be a concern. FLUTe initiated a design change from Nylon 11 to PVDF tubing in the Water FLUTe systems in 2002 to avoid any concern about tubing interaction with the sample water. However, the prescribed purge is sufficient for the use of Nylon tubing systems.

Questions: Call 888-333-2433 and ask for Carl Keller, or a field engineer.

Figure 1. Water FLUTe pump system

(Single port system shown for clarity)

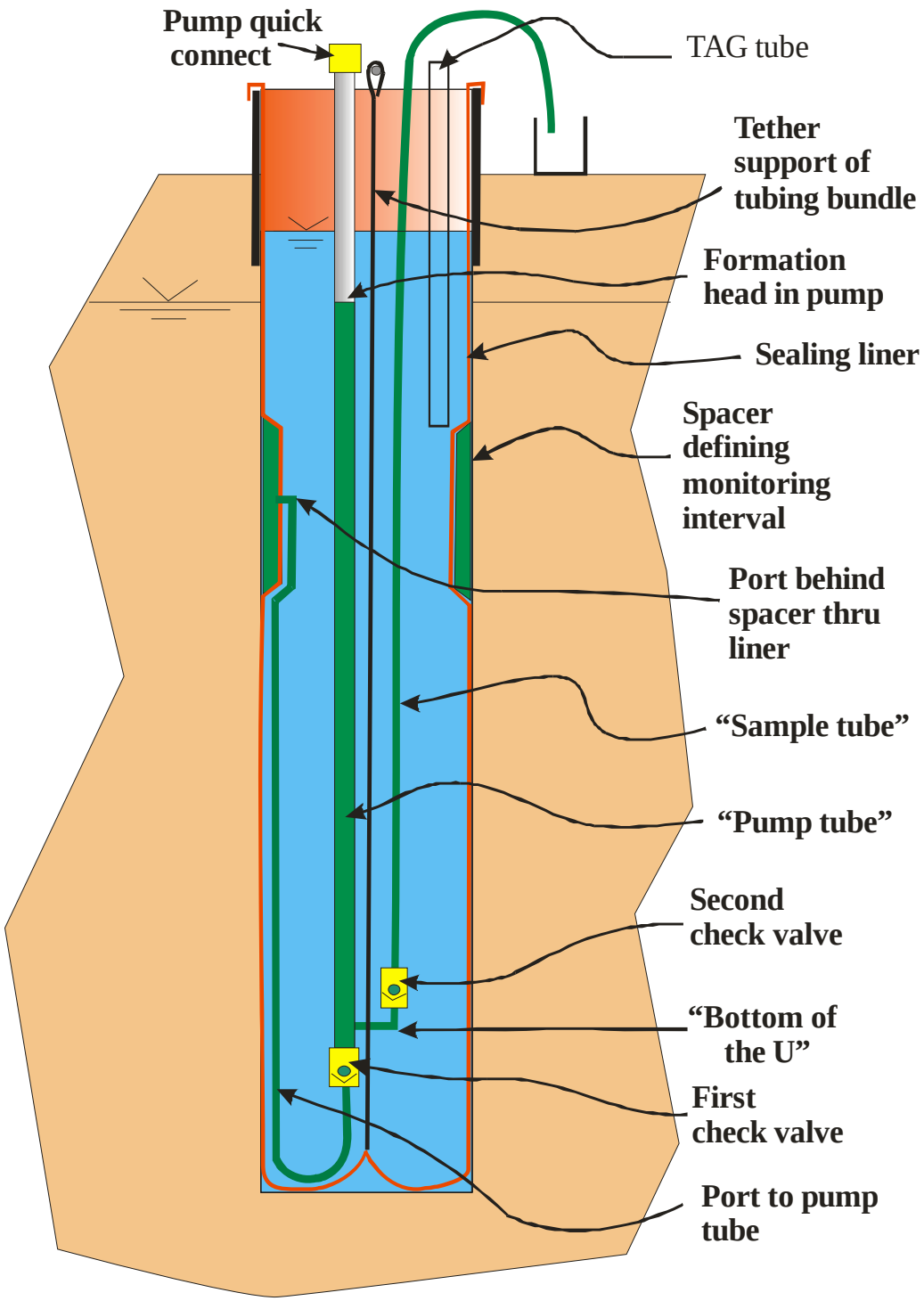
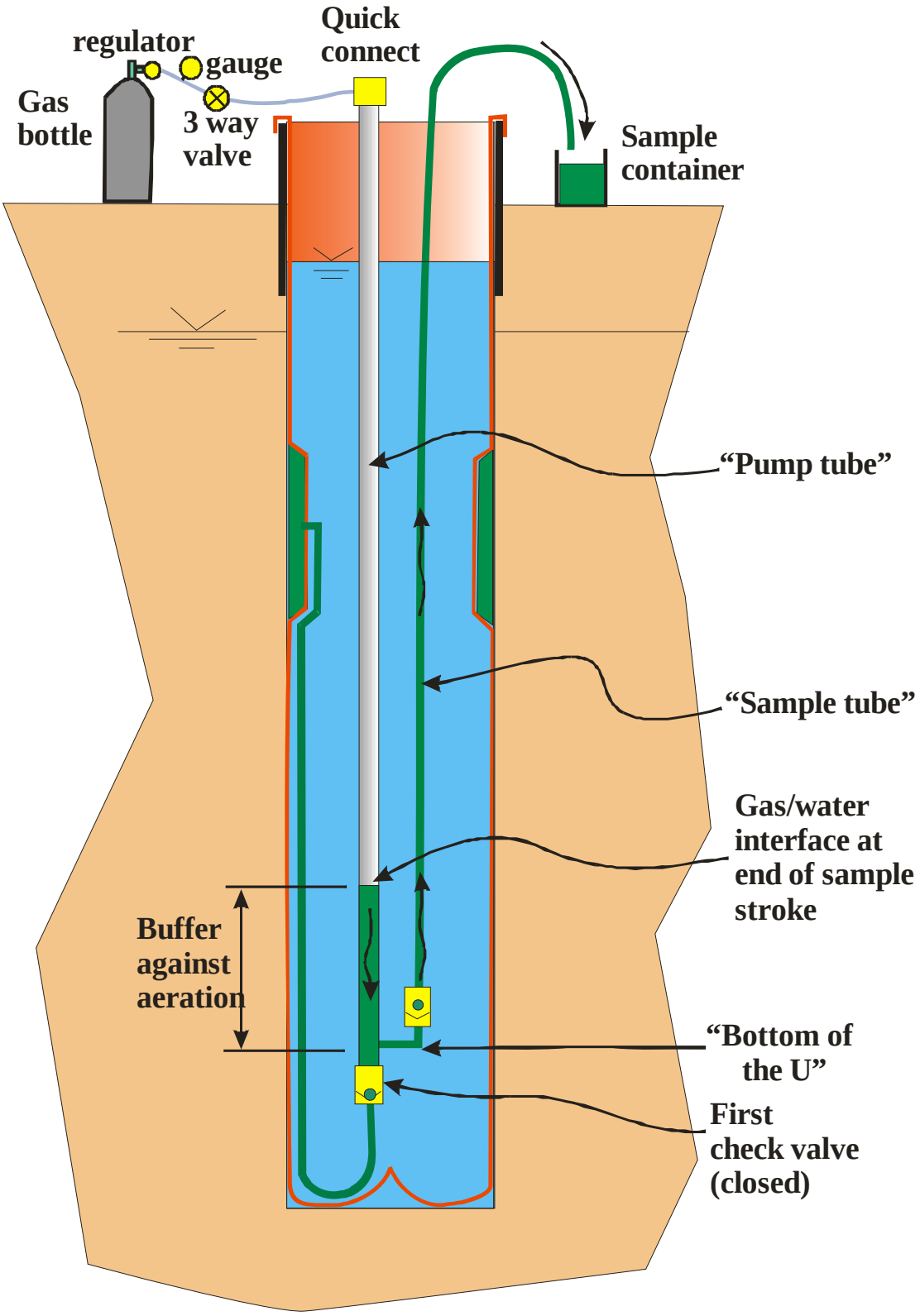


Fig. 2. Pumping Procedure



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Sampling guidelines for *Water FLUTe* systems installed after May, 2009

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Water level in the liner.

The liner water level should be ~10 ft above the highest formation water level to provide a good seal of the liner in the hole (5 ft minimum excess head). The formation water level can be measured via the "pump tube" for each port. The water level inside the liner should be tagged in the ½ x 5/8" tube labeled "TAG" adjacent to the sampling tubes. If the water level inside the liner is measured in the liner, outside the Tag Tube, lower the weighted tag line very slowly to avoid damage to the liner. Water can be added to the liner by simply pouring water into the liner or through the TAG tube, whichever is easier. Do not fill the liner more than 10 ft above the highest formation water level. The water level in the liner should be checked prior to each sampling episode. (Beware that filling the liner with de-ionized water can give a false water level reading.) It is not recommended to manually tag water levels more than 200 ft below the surface. The wet film adhesion may prevent the removal of the tag line. A special Teflon coated tag line can be used to extend that limit.

Water flow

The water flow into the pumping system is shown in Fig. 1. Water flows from the formation through the spacer pore space, through the port tube, through the first check valve, and fills the "pump tube". The "sample tube" is also filled at the same time. The water level rises in the pump tube to the water table for that port.

Setting up the gas pressure source

The water is pumped with gas pressure. The FLUTe pump design is such that there is very low risk of aeration of the sample. The gas source is usually a nitrogen bottle with a regulator for setting the prescribed driving pressure. The arrangement of the FLUTe gas drive system is shown in Fig. 2. The regulator is set to the proper gas pressure defined later by closing the three way valve to prevent gas flow out of the quick connect fitting. The

pressure gauge on the FLUTe pump driver is much more sensitive than the regulator for setting the regulator pressure. The FLUTe pump driver must be securely connected to the regulator at the normal ¼" NPT connection on the regulator outlet.
The regulator is first attached to the top fitting on the gas bottle (a special nitrogen regulator fitting connects to a nitrogen bottle). Tighten the nut securely. Turn the pressure regulator handle counter-clockwise until is moves freely (the no pressure position). Rotate the main valve on the regulator (nearer the bottle) clockwise to fully closed. Open the valve on the bottle (counter clockwise). The main bottle pressure gauge on the regulator will rise to the bottle pressure. Close the regulator valve (clockwise) until the pressure starts to rise on the pressure gauge on the FLUTe pump driver (three way valve closed with no flow out of the quick connect). Adjust the regulator to the desired pressure for purging, provided by FLUTe. Connect the quick connect to the top fitting of the pump tube (see Fig. 2). Open the three way valve to drive the water out of the pump.

Purging

Water is pumped from the tubing by applying the gas pressure to the interface at the static water level in the pump tube (Fig. 1 and 2). The water is driven down in the pump tube and up through the second check valve to the surface via the sample tube. By driving the water with a sufficient gas pressure (the "recommended purge pressure") to drive all of the water in the pump tube and the sample tube to the surface, the water in the pump tubing is nearly all expelled. The purge stroke (~1 gal. of water) is complete when gas is expelled from the sample tube following the water flow. <u>The pressure in the system must then be vented (i.e., dropped to atmospheric by turning the three way valve to the vent position)</u>, to allow the pump tube to refill by flow via the port tube. The recharge flow from the port tube consists of the port tube water, the water in the pore space of the spacer, and water from the medium. Because of the relatively large volume in the pump tube, most of the recharge is from the medium. The recharge will take about as long as the first purge stroke. However, a low conductivity medium will require more time.

Purging the pump tube a second time will remove any of the water that has resided in the spacer and port tube volume. That is highly recommended, since the water resident in the tubing and spacer is probably not typical of the formation water. If the refill has been prompt, the second purge water

volume will be similar to the first stroke. Two more purge strokes, for a total of four purge strokes, are recommended to remove water that may have been in long contact with the liner or spacer. (Note, systems manufactured before May, 2009 use larger pumps and were only stroked twice. The purge volume is slightly larger for this new procedure and takes about the same time as the two stroke system. This new system stresses the liner less at the spacer and has numerous other advantages.)

Sampling

The sampling flow is best driven on the fifth cycle using a "recommended sampling pressure" which is less than that needed to drive gas through the bottom of the pump tube. The pressure recommended is that which will drive the water to near, but not out of, the bottom of the large tube. That recommended pressure, "the sampling pressure," is calculated in the spreadsheet provided with each system. The pressure regulator is set to the sample pressure, which is lower than the purge pressure. Opening the three way valve will now apply the sample pressure to the system causing flow from the sample tube.

The first flow of the sampling cycle sweeps along droplets of water left in the tubing from the purge cycle. That residual water is depleted of volatile components. Tests have shown that the first tube volume of the sample flow should be discarded as depleted in volatiles (the "discard volume" is also calculated in the spreadsheet). Thereafter, the samples can be collected from the sample tube outflow. The volume to be discarded is shown in the spreadsheet as "discard volume". The sample tube water flow rate will start fast, then slow, and finally stop. That occurs as the water column being driven approaches the applied pressure/head. The typical sampling pressure drives to within 25 ft. of the bottom of the pump tube (the U). The large buffer zone remaining in the pump tube assures against aeration of the sample.

This procedure should provide an ample sample (~3 liters) of good quality drawn directly from the formation. If a larger sample volume is needed, simply drop the pressure (i.e., vent the three way valve again), let the pump refill and apply the pressure again. No discard is needed for subsequent sampling flows.

Caution: If the pumping system refills very slowly, there may not be sufficient water in the pump to fill the "sample tube" to the surface when the stroke is performed. In that case, there will be spitting of gas from the sample water and it will be followed by a flow of gas only. The sample water should never show "spitting" and the sample stroke should never end with gas flow from the sample tube. The proper sample flow will slow until it stops flowing. Should this evidence of insufficient recharge be observed, allow the pump to refill for a longer time and repeat the sample stroke. One can tag the water level in the large tube, as described in the head measurement procedure, to assure that the pumping system has been sufficient refilled.

Measuring the head in the system

The water level at each port can be manually measured by removing the plug from the top of the pump tube and lowering a slender (~1/4") electric water level meter until it contacts the water level in the pump tube. It is not recommended to manually tag water levels more than 200 ft below the surface. The wet film adhesion may prevent the removal of the tag line. A special Teflon coated tag line can be used to extend that limit.

The water level in the large tubes may not be the current water level. After sampling, if there is any leakage of the second check valve (sand in the tube, etc…) the water in the sample tube can backflow into the larger tube, adding to the water that fills the large tube during the recharge. Also, if the water level in the formation is dropping between head measurements, the water level in the pump tube will not follow the descent if the first check valve is a good seal. For these two reasons, and for the freezing concern below, it is best to <u>finish the sampling stroke by raising the pressure to the "purge pressure" value</u> to purge the pumping system of all water. Then upon refilling, the level is the current head for each port. If head measurements are made between sampling events, <u>each port's pumping system should be first be purged one stroke</u> to allow the tubing to refill to the current head value. Always replace the plugs in the top of the pump tubes when finished sampling.

If the water might freeze in the sampling tubing near the surface, purge the entire volume of water from each sampling line, after sampling, before leaving it. Use the recommended purge pressure to remove all water, <u>not the sampling pressure</u>. **Each line should be blowing gas when the purge is**

complete. If the tubes were purged after sampling prior to head measurements, that is sufficient.

Since the Water FLUTe uses PVDF tubing, the purge of the entire system after sampling should not be neglected, even if head measurements are not to be made. This removes the water column in the sampling tube. For deep water tables, the long term pressure of the standing water in the sampling tube might lead to excessive creep of the tubing which is susceptible to "cold flow", a characteristic of Teflon like materials. (This is not a concern except for very deep water tables (>300 ft).

In most cases, the performance of a final purge of the system after sampling is useful, even if not essential.

Simultaneous purge and sampling of all tubes

The FLUTe pumping system for each port is essentially identical in length, pump volume and elevation in the hole. This allows all ports to be purged and sampled simultaneously for a great saving in sampling time. The only difference for simultaneous sampling is that the pressure source must include a tube to each port fitting at the wellhead. FLUTe offers a manifold pump driver system at extra cost (the single port driver is provided with the Water FLUTe). The recommended purge and sample pressures are the same as used for single port sampling.

In some cases, the buoyancy of the sampling system is so great when emptied of water during the simultaneous purge that the tubing bundle can cause the liner to invert. The sampling volume spreadsheet provided with the liner notes whether the system can be purged simultaneously. This is only a problem for smaller hole diameters, many ports, and a small excess head in the liner. The new pump design allows simultaneous sampling in most situations.

A short summary is provided as the following checklist:

<u>Check List</u>

1. Check/restore the water level in the liner.
2. Connect the gas driver source to the gas drive (pump) tube for the port.

3. Set the regulator to the recommended purge pressure.
4. Turn the three way valve and expel the tube water at the suggested purge pressure. Collect the purged water volume for verification of a good purge. Note the water flow time of the purge stroke (~4 min.).
5. Allow the tubing to refill. Repeat the purge. Collect the purge volume to assure the amount removed is at least the "port tube volume". Was the refill long enough?
6. Purge a total of four times, more if desired.
7. Allow the tubing to refill for the sample stroke.
8. Reduce the driving pressure to the "sampling pressure". Apply the pressure and collect the first flow to measure the discard volume. Discard that water. Collect the samples.
9. Perform a final purge of the water out of the sampling lines by raising the driving pressure to the purge pressure value.
10. When the sampling system has refilled, tag the water level, if desired, for the current water table. If a port system is refilling very slowly, tag it at a later time.

See the spreadsheet provided with each *Water FLUTe* for the recommended purge and sampling pressures. Those are the pressures that can also be used for a simultaneous purge of the several ports. The spreadsheet flags the condition where all ports should not be purged simultaneously. In most cases, several, to all, of the ports can be purged simultaneously.

Optimum sampling procedure:
Since it is often desirable to minimize the amount of time that the sample water resides in the pumping tubing, it is useful to note the actual time that is required for the recharge of the system. Since the fill rate slows dramatically for the last portion of the recharge, it is not necessary to wait for a complete refill. For most formations, the recharge is dominated by the tubing pressure drop. In that case, the time required for the purge stroke to be completed is about the same time required for the refill. (The exception is for a tight formation that recharges the tubing very slowly.) Hence the second purge can be started after waiting the same length of time as the first purge endured. If the second purge is of a similar volume (usually somewhat less) than the first purge volume, the refill time was long enough. After the same delay, the sampling stroke can be initiated. This timing of the strokes allows one to reduce the retention time in the pumping system. For the very large sample volumes produced, the refill time can be shortened

even more, as long as the sample volume is adequate after the discard of the first flow.

In some situations, the retention time is still too long. FLUTe can often increase the sample tube and port tube diameters for greater flow rates. However, the standard design is well matched for to a wide range of hole diameters, depths, and water table elevations. For very deep wells, the tubing may need to be of higher pressure capacity for the required driving pressures. For water table depths below 700 ft., this may be a concern. FLUTe initiated a design change from Nylon 11 to PVDF tubing in the Water FLUTe systems in 2002 to avoid any concern about tubing interaction with the sample water. However, the prescribed purge is sufficient for the use of Nylon tubing systems.

For special situations such as a very large difference (>50ft) between the water tables at the ports or large fluctuations in the water table, the pumping system may be extended to greater depths. However, the sampling procedure above is sufficient for that situation also.

Questions: Call 888-333-2433 and ask for Carl Keller, or a field engineer.

Figure 1. Water FLUTe pump system

(Single port system shown for clarity)

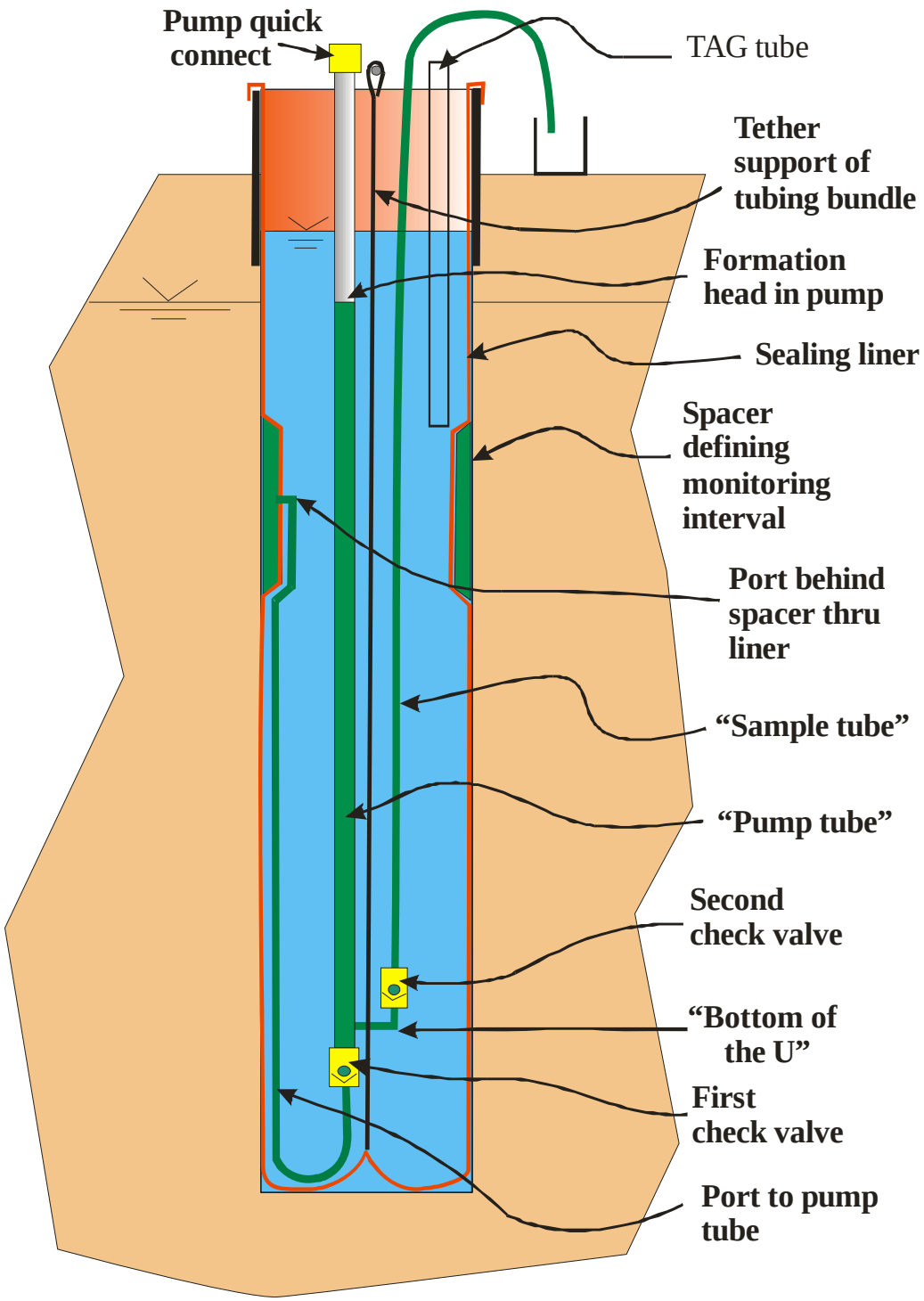
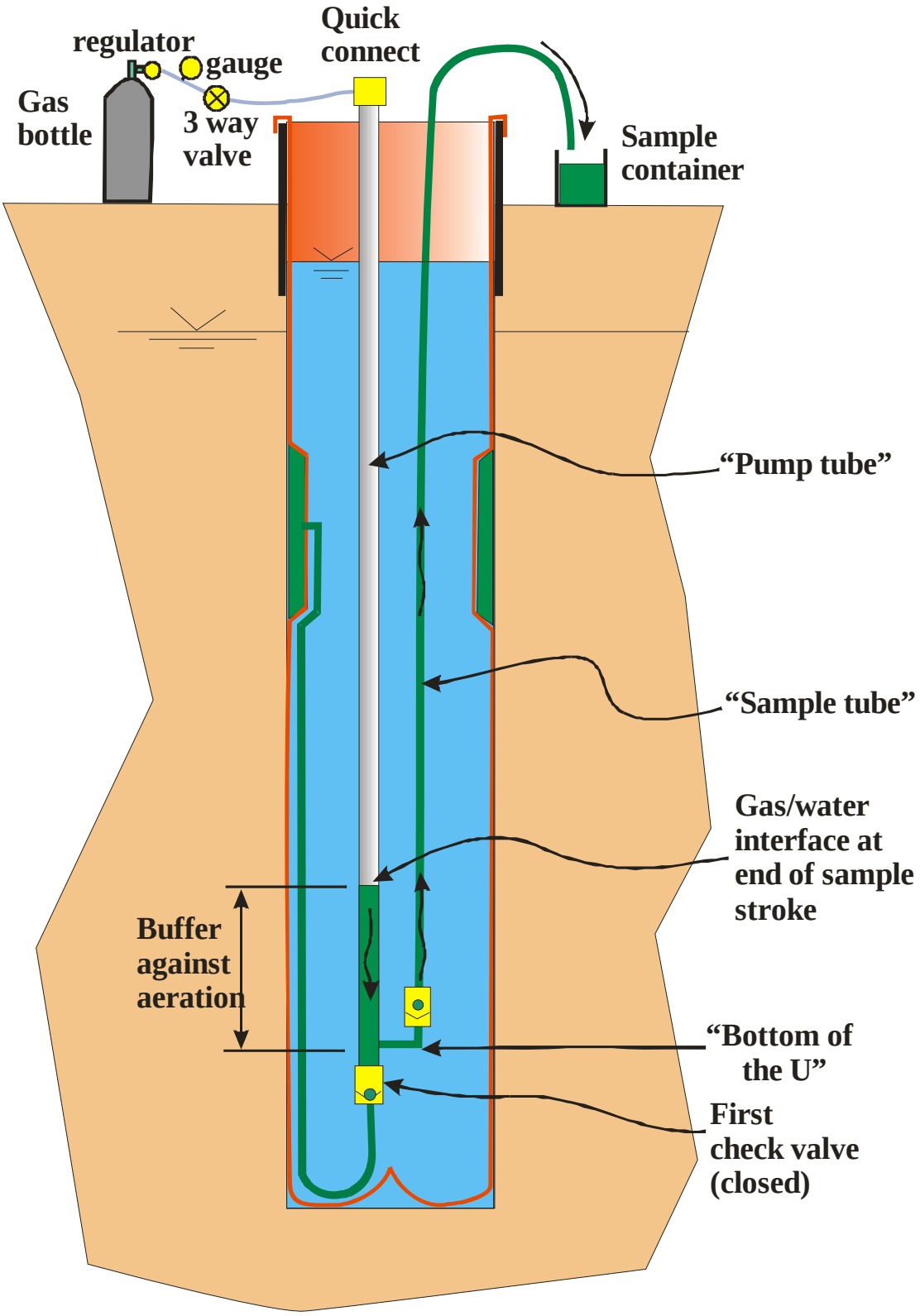


Fig. 2. Pumping Procedure



Appendix I – Validated Analytical Data

PROVIDED ON CD