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Supplemental Remedial Investigation Report (Revised)

Former Ciba-Geigy Facility
Cranston, Rhode Island

Prepared By
Rory Henderson
Senior Project Engineer

Reviewed By
Joanne Lynch, P.Eng.
Project Manager

Reviewed By
Lucas Hellerich, Ph.D., P.E., L.E.P.
Senior Project Manager

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List of Acronyms and Abbreviations

AAOI	Additional Area of Investigation
AOC	Area of concern
AS/SVE	Air Sparge/Soil Vapor Extraction
Ciba	Ciba-Geigy Corporation (purchased by BASF)
COCs	Constituents of concern
CMS	Corrective Measures Study
CSM	Conceptual site model
DEC	Direct Exposure Criteria
DQO	Data Quality Objectives
ECD	Electron Capture Detector
EPA	U.S. Environmental Protection Agency
FID	Flame Ionization Detector
GETS	Groundwater Extraction Treatment System
HASP	Health and Safety Plan
I/C DEC	Industrial/Commercial Direct Exposure Criteria
IRM	Interim Remedial Measures
MIP	Membrane Interface Probe
MPS	Media Protection Standards
NAPL	Non-Aqueous Phase Liquid
PCBs	Polychlorinated biphenyls
PID	Photoionization Detector
POPs	Project Operating Procedures
ppm	part per million
ppmv	part per million by volume
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
R DEC	Residential Exposure Criteria
RI	Remedial Investigation
RIDEM	Rhode Island Department of Environmental Management
RFI	RCRA Facility Investigation
SWMU	Solid Waste Management Unit
TO-15	EPA Method to analyze for volatile organic compounds in soil gas

List of Acronyms and Abbreviations (Cont'd)

UST Underground Storage Tank

VOC Volatile Organic Compound

1.0 Introduction

AECOM Technical Services, Inc. (AECOM) performed a Supplemental Remedial Investigation (Supplemental RI) at the Former Ciba-Geigy Facility, located in Cranston, Rhode Island (the Site). A Site Location Map is provided as **Figure 1-1**.

The scope of work for the Supplemental RI was designed to fill data gaps to support a revised conceptual site model (CSM) for the Mill Street portion of the Site based on review (gap analysis) of the following documents and data:

- Draft Supplemental Remedial Investigation (SRI) Report dated November 2012 (AECOM),
- RCRA Facility Investigation Report for On-Site Areas (RFI) dated July 1995 (Ciba Corporation),
- Pawtuxet River Corrective Measures Study (PR CMS) dated August 1996 (Woodward-Clyde),
- RCRA Facility Investigation (RFI) Phase I Interim Report (Ciba-Geigy Corporation) dated November 1991,
- RCRA Facility Investigation Stabilization Investigation Report and Design Concepts Proposal (Ciba-Geigy Corporation) dated May 1993,
- On-Site Corrective Measures Study Report (Woodward-Clyde) dated September 1995,
- Revised On-Site Soil Interim Remedial Measures Report (Woodward-Clyde) dated August 1996,
- Results of Baseline Sampling Conducted at SWMU-11 (Woodward-Clyde) dated June 1997,
- SWMU-11 Post-SVE Soil Sampling (Ciba-Geigy Corporation) dated January 2005,
- Soil Investigation Report (GFS) dated November 2007 (Appendix A herein), and
- Special Monitoring Report – Monitoring Results for 2006-2007 (Ciba 2008),
- 2008 Annual Monitoring Report (Ciba)
- Air Sparging pilot test performed on the Mill Street portion of the Site by AECOM in 2011 (included in Section 2.2.4 and Appendix B), and
- Historical annual groundwater sampling data (water level and water quality), as reported in various annual monitoring reports 1996 to 2008

1.1 Project Objectives

The objectives of this Supplemental RI are to generate a necessary and sufficient database of soil and groundwater data (both historical and supplemental) to delineate remaining soil and groundwater impacts that present a potential risk-based exposure concern and to evaluate potential remediation technologies to address these concerns and achieve regulatory closure.

To these ends, the specific data quality objectives (DQOs) of this investigation are:

1. To collect and evaluate soil and groundwater data to identify any potential discrete areas of Site contaminant of concern (COC) “source” material within the former Production Area that may contribute to degradation of the long-term groundwater quality and inability to attain the groundwater Media Protection Standards in a timely manner;
2. Identify the associated transport pathways for impacted groundwater to potential receptors (e.g. Pawtuxet River).
3. To collect and evaluate soil data to evaluate polychlorinated biphenyl (PCB) concentrations in shallow soil; and
4. To collect data to support a human health risk evaluation for soil, soil vapor, and groundwater exposure.

1.2 Project Approach

The approach is to define the nature and extent of the Site COCs. The Site COCs include PCBs (soil) and chlorobenzene, 1,2-dichlorobenzene, toluene, 2-chlorotoluene, and xylenes (soil, groundwater, and soil gas).

Data collection and evaluation were performed in a sequential manner, where information from previous investigation steps was used to identify sampling locations necessary to fill apparent data gaps. Initially, a review of historical operations and data was performed to identify sampling locations where the presence or absence of contamination was confirmed. As part of this task, historical data were compiled into a digital database to facilitate analysis and visualization. Historical evaluation provides the basis for the field investigation which in turn allows for adjustments based on field and analytical data as they are collected.

This report describes the field and data evaluation activities that were completed to meet the stated objectives. The activities that were completed include:

- Collection of groundwater elevation data to more accurately characterize local groundwater flow conditions.
- Groundwater sampling and analysis of existing site wells using low flow sampling methods to support characterization of the nature and extent of groundwater impact.
- Groundwater grab sampling and analysis from two transects to close data gaps and focus on identifying any remaining source areas.
- Groundwater grab sampling and hydraulic profiling to determine impacts and transport of COCs to the Pawtuxet River.
- Collection and analysis of soil vapor samples to assess the potential for vapor intrusion.
- Surface and subsurface soil sampling and analysis from areas within the Site identified as data gaps or requiring updates of current contaminant concentrations.

All field sampling activities were conducted in accordance with the requirements outlined in the site-specific Health and Safety Plan (HASP) (AECOM, 2012), Quality Assurance Project Plan (QAPP) (AECOM, 2012), Project Operating Procedures (POPs), and EPA approved work plans (Supplemental RI Workplan, AECOM, 2012; SRI Workplan Addendum, AECOM, 2013).

2.0 Site Background

The Former Ciba-Geigy Facility (the Site) comprises an elongated parcel of land that is approximately 5.5 acres, located at 180 Mill Street in Cranston, Rhode Island. It is bounded by residential properties on Mill Street and Sunset Terrace to the north, Mill Street and the Safety Kleen property to the west, the Pawtuxet River to the south, and residences on Robert Circle to the east (**Figure 1-2**). An adjoining parcel owned by BASF is located to the west and northwest of the Mill Street portion of the former Ciba-Geigy facility. That property is referred to as the Bellefont Pond property, and it is being remediated under a separate order from the Rhode Island Department of Environmental Protection (RIDEM).

A detailed background and historical summary of the Site is included in the 1995 RFI Report (Woodward-Clyde, 1995), and is briefly summarized below.

2.1 Site History

The Alrose Chemical Company initiated chemical manufacturing on-Site in 1930. The Geigy Chemical Company of New York purchased the facility in 1954 and later merged with the Ciba Corporation in 1970. The facility was used for batch manufacturing of organic chemicals, such as plastic additives, optical brighteners, pharmaceuticals, and textile auxiliaries (Ciba-Geigy, 1993). The Ciba-Geigy facility ceased all chemical manufacturing operations in May 1986 when the plant was closed and in 1986 the production facility was demolished to grade, where building foundations and subsurface structures were left in place (see **Figure 2-1** which provides a subsurface infrastructure plan developed during site operations).

The RFI (1995) indicates that the plant closure included the removal of materials and residues, as well as the proper disposal of wastes and hazardous wastes. The structures associated with the Solid Waste Management Units (SWMUs), areas of concern (AOCs), and areas of additional investigation (AAOIs) were dismantled. Therefore, physical descriptions of SWMUs and AOCs from the RFI and related Site documents are based on historical information.

2.2 Previous Environmental Work

The RFI document cites a number of spills or releases to the environment that have occurred from historical operations. Where applicable, spills were reported to the Rhode Island Department of Environmental Management (RIDEM) and corrective actions were completed. However, based on available documentation, a number of the incidents could not be resolved regarding completion of cleanup and closure. Thus, the field program described herein preferentially locates soil borings in these potential release areas.

At the former Ciba-Geigy facility, the compounds chlorobenzene, 1,2-dichlorobenzene, 2-chlorotoleune, toluene, and xylenes were identified as constituents of concern (COCs) in groundwater. Media Protection Standards (MPS) were developed for these compounds in the Pawtuxet River Corrective Measures Study (1996). These standards are based on exposure of benthic organisms in Pawtuxet River sediment to discharging site-related groundwater, where the river is the discharge point for site-related groundwater. In addition to the above-referenced volatile organic compounds (VOCs), PCBs were identified as constituents of concern in soil. MPS were developed for PCBs in the On-Site Interim Remedial Measures (IRM) Work Plan (Woodward-Clyde, 1995).

While areas of concern were identified during the RFI (1995), elevated concentrations that remain in groundwater suggest that there are limited source area(s) within the Production Area that have not been fully characterized. **Figure 2-1** presents the RFI's (1995) Site areas of concern, Solid Waste Management Unit (SWMU) locations, and additional areas of investigation (AAOI) described below.

2.2.1 Toluene Release

A documented release of approximately 90 lbs of toluene from a pipeline in 1983 occurred near the western edge of the Site, within the Production Area. The spill area comprised SWMU 11, and a soil vapor extraction (SVE) system was installed in 1997 to address the resulting impact area. The SVE system removed toluene from shallow soil. A Post-SVE Soil Sampling Report was submitted to EPA in January 2005. Confirmatory samples in the SWMU-11 area were collected at and above the water table. However, the presence of other COCs with a specific gravity greater than that of water in that area (RFI, 1995) suggested that additional sampling at depth, below the water table, was necessary.

2.2.2 On-Site Interim Remedial Measure

An IRM was completed in 1996 to address elevated levels of polychlorinated biphenyls (PCBs) present in surface soil at the former Production Area (Woodward-Clyde, 1996). All soil containing total PCB concentrations greater than 45 ppm were removed in phases, to a maximum depth of 1-2 feet bgs and the soil was replaced with clean backfill. Former building foundations and subsurface structures were left in place. Clean fill was used to restore the Site to grade. **Figure 2-2** shows the footprint associated with each phase of PCB-impacted soil removal and backfill, and confirmatory sample locations.

2.2.3 Groundwater Extraction and Treatment System/Soil Vapor Extraction System

As indicated earlier, the RFI (1995) delineated concentrations of Site COCs in groundwater in excess of the MPS. In response, in 1995 a groundwater extraction and treatment system (GETS) was installed to capture and treat impacted groundwater before it discharged to the river sediments. The design was detailed in the Stabilization Report (Ciba, 1993). In May 2006, because ongoing monitoring showed that the MPS had been met, the GETS was turned off with EPA approval. Ciba followed up with groundwater monitoring but found that concentrations of chlorobenzene and 2-chlorotoluene had increased above the MPS in the southwest portion of the site. The system was turned back on, and in 2008 a field investigation (membrane interface probe (MIP) and soil and groundwater sampling) was performed to identify the nature and extent of the recalcitrant zone leading to the remaining MPS exceedances. The results from this study are presented in Appendix A. In April 2010, the GETS was damaged in a significant flood event of the Pawtuxet River. To address the recalcitrant zone in a more efficient manner than simple pump and treat, characterization continued, focusing on an alternative remedial approach (see next section).

2.2.4 Air Sparge/Soil Vapor Extraction Pilot Test

In July 2011, an investigation of an on-Site area with known VOC impacts (i.e., southern area of the former Production Area) above site MPS and a pilot study for a potential remedial approach were conducted so that a remedy could be implemented to improve long-term groundwater quality. Based on the MIP data collected in 2008, an isolated area within the Southern Production Area was targeted for additional investigation and air sparge/soil vapor extraction (AS/SVE) pilot testing. The objective of the pilot test was to address impacted soil remaining in the former Production Area of the Site that had been causing elevated groundwater concentrations for several volatile organic compounds (VOCs), as described in the Work Plan submitted to EPA (AECOM, March 2011). Specifically, a goal of the

investigation and pilot test was to identify a technology that would allow a shut-down the existing groundwater extraction and treatment system and achieve Site closure.

On July 12, 2011 AECOM initiated the AS/SVE pilot test to determine the physical parameters for the design of a full scale AS/SVE system to address groundwater impacted in the southwestern corner of the facility (refer to **Figure 2-1**). The pilot test was conducted by first instrumenting and characterizing the area for geology and contaminant distribution by installing monitoring wells, SVE wells and air sparging wells (see Appendix B for boring logs and well construction logs). **Figure 3-1** provides well location (Air sparge wells = AS-1 and AS-2, monitor points = MP-1S, MP-1I, MP-1D, MP-2S, MP-2I, MP-2D, P-2D, MP-3S, MP-3I, MW-100S, MW-100D, MW-101S, MW-101D, MW-102S, SVE wells = SVE-1). Once instrumented, a SVE step test was conducted to determine the relationship between the applied vacuum and soil vapor extraction rate from the subsurface, followed by three constant rate step tests to establish vacuum response in the overburden/backfill. The second phase of the pilot test consisted of the injection of air (air sparging) at various injection rates and recording the corresponding pressures to evaluate the effects of air sparging. Due to the soil lithology, specifically a silt layer from ~22 to 28 ft bgs, two air sparge wells (AS-1, AS-2) were installed from 38-40 ft bgs and 19-21 ft bgs, respectively, and both tested for the effects on the subsurface. Appendix B presents the analytical soil, water and vapor data, chains of custody, and field records from the AS/SVE pilot test.

Nature and Extent of Impacts Relative to Stratigraphy

Stratigraphic and soil and groundwater quality data from this and previous investigations provide the following attributes important to designing the pilot test and understanding its results:

- Stratigraphy (see Section 2-4 and **Figure 2-3**): there is a shallow silty-sand zone (Zone 1) from the water table to ~15 ft bgs. Low permeability is implied by the low yield of the monitoring wells screened in this unit. Below this unit is a low permeability silt unit (Zone 2) interpreted as an aquitard (~ 10 ft thick). Below this unit is a more permeable gravel (Zone 3), sand and silt unit on the order of 5 ft thick.
- Contaminant distribution: Soil concentration are highest in Zone 1 (see **Figures 4-6** through **4-10**). Groundwater concentrations are highest in Zone 3 (see **Figures 4-1** through **4-15** and **4-11** through **4-14**).

SVE Tests

The step and constant rate SVE tests indicated that, at low vacuums, high soil vapor flow rates were achievable. Vacuum response was only measured in wells that were several feet from the extraction well. This indicated that the overburden soils, which are filled with various building infrastructure (i.e. columns, piers) and generally backfill material, are highly permeable and unlike the native soils. During the SVE constant rate test, VOC concentrations (as measured using a PID meter) ranged from ~10 to 20 part per million by volume (ppmv) and O_2 concentrations were consistently at 20% (saturated conditions). With the shallow groundwater table at approximately 6 ft bgs, some of the soil vapors recovered could have come from ground surface short circuiting (associated with high O2 concentration), and the source for the modest VOC vapor mass may have be from residual mass in the vadose zone or off-gassing from the water table.

A soil vapor air sample, to act as a baseline for VOC concentrations, was collected using a summa canister during the second constant rate test and was submitted for analysis by EPA method TO-15. The baseline concentrations indicated that several VOCs were present just above the detection limit (see Appendix B). The only Site COC present in the baseline sample was xylene.

Air Sparging Tests

The deep air sparge well (AS-1) was tested first. During this test, the SVE system was operated at a steady rate to allow any VOCs stripped from the groundwater to be collected and allow the optimal injection rate and corresponding operating pressure to be determined. Due to the lithology, AS-1 was screened below the silt/clay layer in a coarse/gravel lens. The entry pressure to get air into the formation was ~ 25 psi at an injection rate of less than 1 cubic feet per minute (cfm). As the test progressed, the operating pressure dropped to ~16 psi at an injection rate of just over 1 cfm. By injecting the air below the silt/clay layer, the groundwater in the shallow overburden was not affected (i.e., no groundwater mounding), but the monitoring wells that were also screened at the same interval (i.e., below the silt/clay layer) had significant mounding within ~1-2 feet of the ground surface. Also, air bubbles were observed in some of the monitoring wells, indicating that there are channels between the injection well and monitoring wells located 7-10 ft from the injection well. The mounding started to slowly dissipate and dropped ~ 1 ft, over the next 2 hours of operation. A soil vapor air sample was collected using a summa canister, to allow the COC concentrations to be compared to the baseline soil vapor sample collected at the beginning of the test to see if air sparging in AS-1 affected VOC stripping from the groundwater. These data showed only a slight increase in concentration. This information coupled with the observations that there was no pressure connection between the deep (AS-1) sparge point (i.e., no shallow groundwater mounding observed) and the shallow aquifer and PID VOC data did not record a concentration increase, imply that the silt/clay layer acts like a confining unit. Therefore, the pilot testing was suspended for the day.

The following day, baseline groundwater gauging was conducted on all the monitoring wells. The gauging indicated that the wells screened in the deep aquifer remained under pressure from the previous day confirming the confined nature of the sand/gravel lens and perhaps its lack of continuity spatially.

After collecting the baseline groundwater data on the second day, the SVE system was started and operated at a steady state while air was applied to AS-2, which was screened above the silt/clay layer. The injection of air into the shallow overburden created a groundwater mound in both the intermediate and shallow monitoring wells, but vapor-phase VOC concentrations did not change significantly based on PID readings. The injection rate was increased from ~1 to 2.5 scfm at an injection pressure of ~7 to 10 psi with no appreciable change in behavior. However, when the injection rates were increased above 3 scfm, the groundwater mounding approached the top of the well casing; therefore, this higher injection rate was not tested. A soil vapor air sample was collected using a summa canister during each of the injection tests (i.e., 1 and 2.5 scfm injection tests) to allow the COC to be compared to the baseline soil vapor sample collected to see if sparging in the shallow sparge well, AS-2, is effective at stripping VOCs from the groundwater. Compared to the baseline soil vapor sample, higher VOC concentrations were measured for Site COCs (chlorobenzene, dichlorobenzene, and toluene) but not at elevated concentrations where sparging would be an effective technology for significant mass reduction.

The soil vapor analytical results indicated low VOC concentration levels during soil vapor extraction. While sparging in the deep well, AS-1, did increase vapor concentrations slightly, injection into the shallow overburden at 1 and 2 scfm resulted in a noticeable increase of VOC concentrations (by PID from 2.1 to 22.1), but not so significant to suggest that this technology will be effective in either zone.

The results of this pilot test also suggest that the isolated area that was delineated within the Southern Production Area is more expansive due to VOC detections in MW-100S/D, MW-101S/D, and MW-102S/D well pairs. These wells were placed outside the area of impact based on soil sampling conducted in the RFI, supplemental soil sampling conducted in 2007 by MIP direct sensing methods,

and as suggested by field screening data during well installation. With regard to technology feasibility, air sparging and soil vapor extraction could not be shown to be achievable throughout the impacted aquifer volume.

2.3 Additional Investigation Areas based on Data Gaps

Based on historical data, the following areas were identified for further investigation to confirm the absence or presence of ongoing soil and groundwater impacts. A brief description of each area and why it was identified as a potential data gap are presented below. These historical operational areas are shown on **Figure 2-1**.

SWMU 2, 3, 7: SWMUs 2, 3, and 7 contain a former tank farm area where rail cars were loaded. Secondary containment was present and no spills were noted. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

SWMU 4: SWMU 4 was an area that contained a trash compactor where solid wastes were disposed and broken down. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

SWMU 8: A historic spill was noted at nearby SWMU 4 and a former Site plan notes a Solvent Recovery Area in this area, which had not been previously identified as a specific AOC or SWMU and had not been previously investigated in the RFI. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

SWMU 11: A documented toluene spill from a pipeline to a subsurface sump at Building #11 occurred in the early 1980s. A SVE system was operated and post-closure monitoring indicated that COCs were remediated. The closure report indicated that samples were collected down to 7 ft bgs, however, no deeper soil or downgradient groundwater samples were collected for confirmation.

AAOI 15 Former Laboratory Building Piping: A laboratory sump was present within the laboratory building and interviews with facility personnel indicated that dyes may have been washed down laboratory sinks in the 1960s and potentially discharged at an outfall in the river. The only data available to review were from 1994 and they indicate that there were no resulting impacts of note. To confirm this conclusion, additional data were proposed for collection prior to Site closure.

NAPL Area Near MW-34D: During installation of MW-34D in 1993, a separate phase liquid was observed and it was assumed to be Dowtherm, but no confirmation sampling was completed on this material. It was reportedly present from 14-30 ft bgs. The potentially impacted soil in this area is inaccessible but needed to be evaluated if it was a remaining source that impacts long-term groundwater quality. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Jet Sump Area: There was a boiler plant jet sump failure in the southern portion of the site and observation of possible solvent in the sump in the mid-1970s. Footings for the boiler plant were exposed and a large area beneath the building was filled in with concrete for structural support in approximately 1978 (based on interview with facility staff). This area coincides with the elevated soil concentrations denoted in the 2007 MIP investigation at MIP-1, MIP-2, MIP-5, and MIP-7 (see **Figure 3-2** for 2007 MIP locations).

Buildings #10/#18 Boiler Room & Transformers: Historically, this area contained boilers and transformers. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Building #24 Zinc Rail Car Area: Dry chemicals were loaded into rail cars at this location. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Building #21 Zinc Sump: Soil samples were collected to delineate zinc surrounding the zinc sump. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Building #21 Tank Farm: Historically, this was a former tank farm that supported pharmaceutical manufacturing activities in Building #21. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Piping Runs: The underground piping transported material from building to building on-Site. There were no documented releases from the piping, aside from the toluene release in the 1980s. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Hot Sump: The Hot Sump was connected to the outfall to the river cofferdam water treatment area, where sediment impacts were delineated and removed during the Pawtuxet River IRM (1996). The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

Septic Tank: Based on historical information, the site previously utilized one septic system for wastewater disposal prior to Ciba building a wastewater treatment plant off-Site in 1975. The associated sewage tank is located to the east of Building 14. The only data available to review were from 1994. To evaluate for current soil and groundwater conditions, additional data were proposed for collection prior to Site closure.

UST Vault/Underground Tunnel: Former USTs and a below-ground vault/tunnel located on the northeastern portion of the site were decommissioned according to BASF staff interviews, but no confirmatory sampling or closure reporting exists. Facility staff were able to find photodocumentation of the UST removal. No data were available from this area to review and evaluate for current soil and groundwater conditions, so additional data were proposed for collection prior to Site closure.

Loading Dock: Manufactured chemicals were shipped off-site in this loading dock area. While no historical spills or releases were reported, no data were available from this area to review and evaluate for current soil and groundwater conditions, so additional data were proposed for collection prior to Site closure.

Former Laboratory Buildings (#20 and #26), Warehouse (#25 and #15) and parking area: Based on historical operation data, the area north of the railroad that housed the plant's offices, laboratory, warehouse and parking was not considered an area of concern by the EPA. While this is the case, for completeness BASF identified this area for baseline sampling of soil, soil gas, groundwater and indoor air to verify this assessment.

2.4 Site Geology and Hydrogeology

Detailed summaries of the geology and hydrogeology of the Production Area are included in the 1995 RFI submitted to EPA by Ciba Corporation (1995). The stratigraphy of the production area is characterized based on data from the Stabilization Investigation Report and Design Concepts Proposal (Ciba, 1993), the RFI (Ciba, 1995) and the recent soil borings completed on-site between 2007 and the present. **Figures 2-3** and **2-4** provide the geologic cross-sections based on all available data. Cross-section A-A' traverses the Southern Production area generally from north to south. The cross section begins just south of the former gate area and presents a profile view of MW-20, MW-14, MW-34, MW-102, GW-7, PW-120, GW-1, and MW-2S (see **Figure 2-3**). Section A-A' ends at the bulkhead wall and Pawtuxet River at monitoring well MW-2S. Cross-section B-B' traverses the downgradient edge of the Site, along the Pawtuxet River and parallel to the bulkhead. The profile view looks to the southeast, viewing wells and monitoring points that are located approximately 10 -20 feet up-gradient of the bulkhead wall, on the north side of the Pawtuxet River. From northeast to southwest, the profile view in cross section presents GW-5, PW-110, GW-4, GW-3, MW-1, PW-130, GW-2, MW-2S, GW-1, and PW-120.

The cross-sections show that the production area is underlain by urban fill (2 to 8 feet thick), including sand, silt and gravel as well as concrete and metal debris. Below the fill is a silty sand unit (10 to 15 feet thick) of alluvial origin. In the SW quadrant of the area a fairly homogeneous unit of gray silt of alluvial origin is present (2 to 10 ft in thickness beginning approximately 10 to 15 ft below the ground surface and of low hydraulic conductivity). Below these units (where present) exists a heterogeneous mixture of gray sand, silt, clay, and gravel of glacial outwash origin). A unit of relatively homogeneous fine sand and silty sand is the next unit encountered in depth. Finally, a 5 to 10 foot thick Glacial till unit directly overlies bedrock in the Production Area. The top of competent bedrock is present from 50 to 59 ft bgs. A description of bedrock as a quartz-biotite sandstone in the Production Area was included in the Phase IA Report (Ciba, 1991) and RFI (Ciba, 1995) and was based on two observations in this area, at MW-10D and RW-1.

With regard to hydrology, shallow and deeper groundwater flow direction is generally to the southeast toward the Pawtuxet River (**Figures 2-5, 2-6**). The water table is approximately 7 to 10 feet below the ground surface across the Production Area. The vertical gradient generally downward across the Site indicating that groundwater recharge conditions prevail (compare **Figures 2-5 and 2-6**). The natural discharge point for site-related groundwater is the Pawtuxet River, which is a gaining water body adjacent to the Site, as evidenced by the fact that the river stage is lower than the groundwater elevation (see **Figure 2-7**). The groundwater flow is affected by a bulkhead wall (sheet piling) that extends to a depth of 25 ft bgs, where groundwater is deflected downward under the wall as it migrates toward the river (see **Figure 2-5A, 2-5B, 2-6A, 2-6B, 2-7, 4-11** through **4-14**).

3.0 Methodology

3.1 Pre-clearing activities

On June 6, 2012, the locations of all proposed soil, groundwater, and soil vapor sampling points were marked and pre-cleared prior to performing subsurface sampling activities. Dig Safe®, a not-for-profit private utility location service, was notified and located underground utilities in the vicinity of the pre-marked investigation locations. All sampling locations were reviewed against site utility maps at the site. A vacuum excavation truck was used to clear down to 4 ft bgs in areas where subsurface obstructions might have been encountered. Vacuum excavation was not used in shallow soil borings in order to maintain sample integrity.

3.2 Groundwater Characterization

3.2.1 Monitoring Wells

On June 11, 2012 and November 6, 2012, site-wide synoptic water level measurement events were performed in order to determine groundwater elevations at the Site and accurately characterize local groundwater flow conditions. In order to achieve this objective, a network of wells and the river stage was measured during this synoptic water level measurement event. The list of the monitoring wells that were included in the synoptic water level measurement event is provided in **Table 4-1** and depicted on **Figure 3-1**.

On June 12, 2012, DiPrete Engineering, licensed surveyor, was on site to survey all monitoring well locations to reference elevation and horizontal location to local datum (**Table 4-1**).

On June 12, 13, and 14, 2012, groundwater samples were collected from existing monitoring wells (a total of 33 wells) and the depth to water was gauged on June 11 and November 6, 2012 (listed in **Table 4-1** and shown on **Figures 2-5A, 2-5B, 2-6A, and 2-6B**). QA/QC samples were collected at a frequency of one per every 20 analytical samples or 1 minimum per day. Trip blanks and equipment rinseate blanks were also collected at the same frequency. Groundwater samples were analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260. Groundwater samples were submitted under Chain of Custody to ESS laboratory, Division of Thielsch Engineering, of Cranston, Rhode Island (ESS).

Additional groundwater samples were collected from 11 monitoring wells between July 24 and 26, 2013. Groundwater samples were analyzed for VOCs using USEPA Method 8260 and PCBs by EPA Method 8082. Groundwater samples were submitted under Chain of Custody to ESS. A subset of five monitoring wells was also analyzed for monitored natural attenuation parameters (i.e. total organic carbon, sulfate, nitrate, iron [total and dissolve] Fe^{2+}[total and dissolved], methane, pH, dissolved O_2, specific conductance, ORP, and temperature). Microbial census parameters (including chlorinated benzene census, aerobic/anaerobic BTEX census, sulfate-reducing bacteria census, methanogens, denitrifiers, EBAC census, and chlorotoluene census) were analyzed in three monitoring wells.

Groundwater samples were collected from monitoring wells with portable bladder pumps using disposable bladders and low-flow sampling techniques. Groundwater sample collection records are presented in Appendix C – Low Flow Ground Water Sample Collection Records.

3.2.2 Groundwater Grab and Monitoring Well Sample Collection

Groundwater grab samples were collected at 10 locations along two transects that run parallel to, and up-gradient of, the bulkhead wall using a Geoprobe between June 13 and June 14, 2012. One transect was positioned within 30 ft of the bulkhead (GW-1 through 5) and the other approximately 80' from the bulkhead (GW-6 through 10) [see **Figure 3-1** for location]. Along the near transect (GW-1 through GW-5), two grab samples were collected from each location, at approximately 2 and 7 feet below the bottom of the bulkhead wall. Historical cross-sections show that that the bulkhead wall extends to a depth of approximately 25 feet below ground surface (ft bgs) (**Figures 2-3** and **2-4**). Historical records also indicate that Woodward-Clyde installed the existing bulkhead wall in approximately 1990 to replace an older structure (as documented in Woodward-Clyde, 1993). The older structure, located about 10 feet upland of the current bulkhead, consisted of a concrete wall (deadman) with reinforcing steel. Along the far transect (GW-6 through GW-10) two grab samples were collected from each location at a depth of 20 and 25 ft bgs to account for the implied downward groundwater flow direction as it is deflected under the bulkhead. All groundwater grab samples collected were analyzed for VOCs using USEPA Method 8260. QA/QC samples were collected at a frequency of one per 20 analytical samples or 1 minimum per day.

To supplement previous groundwater grab samples collected during 2012, hydraulic profiling with the Waterloo Profiling method and subsequent groundwater grab sample collection was performed at seven locations along the southern property boundary and along the up-gradient side of the bulkhead wall between July 22 and 25, 2013 for focused evaluation of COCs potentially migrating into the Pawtuxet River from the Site. Waterloo Profiling locations were identified as WPT-1 to WPT-7, the locations of which are illustrated on **Figure 3-1**. All groundwater grab samples were collected from higher permeability zones and analyzed for VOCs using USEPA Method 8260. QA/QC samples were collected at a frequency of one per 20 analytical samples or 1 minimum per day.

Piezometers were installed in shallow portions of the Pawtuxet River along the southern property boundary of the former Production Area between January 15 and 17, 2014 to evaluate the potential for site COCs to migrate under the bulkhead wall and into the river. Two foot stainless steel screens were coupled to steel riser and installed manually at depths from 3 to 5 ft and 15 to 17 ft below the river sediment/natural aquifer material interface. The piezometer locations were identified as PZ-01S and PZ-02S for shallow piezometers and PZ-01 D to PZ-03D for the deep piezometers, the locations of which are illustrated on **Figure 3-1.** The five piezometers were subsequently sampled and analyzed for VOCs using USEPA Method 8260. The piezometers were left in place.

Waterloo profiling and piezometer locations from which grab samples were collected are depicted in **Figure 3-1** and field collection records are presented in Appendix C – Low Flow Ground Water Sample Collection Records and Appendix F – Supporting Materials from the 2013/2014 Investigation Activities.

Two temporary wells (NP-GW1 and NP-GW2) were installed on January 8, 2014 to assess the quality of groundwater in the vicinity of the Site buildings. The temporary well locations were identified as NP-GW1 and NP-GW2. NP-GW1 was installed between Buildings 25 and 26. NP-GW2 was installed north of Building 26, proximal to building. The locations are illustrated on **Figure 3-2.** The temporary wells were subsequently sampled and analyzed for VOCs using USEPA Method 8260 to assess the potential for impacted groundwater to be present in the vicinity of the Site buildings which may impact indoor air quality in the buildings. A field duplicate was collected for QA/QC purposes. The temporary wells were pulled and the boreholes filled with bentonite. Locations of the temporary wells are shown on **Figure 3-2**.

3.3 Soil Characterization

3.3.1 Membrane Interface Probe (MIP)

The MIP is a percussion-tolerant VOC sensor that can log volatile organics that diffuse through a semi-permeable membrane. Using a carrier gas, the VOCs are brought to the surface through tubing, which is connected to a laboratory grade Photoionization Detector (PID), Flame Ionization Detector (FID), and Electron Capture Detector (ECD) for immediate screening. The MIP log provides semi quantitative/qualitative information on contaminant levels and lets the investigator collect targeted samples from contaminated zones. Information from both the MIP and electrical conductivity logs provides information on contaminant distribution and migration pathways.

On July 24, 2012, a Membrane Interface Probe (MIP) was mobilized and advanced into soil to a depth of 40 ft bgs at five locations (SB-108, SB-114, and SB-127, SB-130, and SB-133) across the Site (see **Figure 3-2**) to screen soil for VOC impact. The MIP locations were based on groundwater monitoring results that were collected during initial Supplemental RI investigation activities (2012), or used either in areas of potential concern based on past Site use, historical detections of COCs in soil or groundwater, and/or used as a screening tool to investigate areas that had not been evaluated previously (i.e., the north side of the Site). The MIP evaluation was performed by Zebra Environmental of Lynbrook, New York and the MIP report is presented in Appendix D- Summary Report for Direct Sensing Services. No samples were collected for analysis; however, PID/FID response and bulk electrical conductivity were used to identify/delineate VOC impacts in soil and higher permeability zones to 40 ft bgs in discrete locations in the former Production Area.

3.3.2 Soil Borings

AECOM completed soil borings at 37 locations in two phases at the Site for direct contact risk and groundwater impact by VOCs characterizations. Soil borings were completed first using hand auger or vacuum extraction techniques (for clearance of subsurface obstructions), then using a Geoprobe® direct push drill rig.

Soil borings were advanced to 6 ft bgs at 29 locations and samples were collected from the following depth intervals:

- 0-2 ft bgs (VOC, PCB, SVOC, pesticides, metals) collected on June 12 and June 15, 2012, with the exception of SB-123, SB-124, SB-127, SB-128, and SB-129 which were collected on July 24, 25 and 27, 2012.
- 4-6 ft bgs (PCBs) collected between July 23 and July 27, 2012.

The locations selected for these soil samples were based on the location of previous Site activities, as described in Section 2.3 above. An additional nine soil samples (SB-130 through SB-137) were collected for VOC analysis from a 2-foot interval at depth, based on results of groundwater grab samples, MIP results, monitoring well samples, visual, and/or olfactory observations (VOCs only). Samples collected were submitted under Chain of Custody to ESS.

Additional soil borings were completed in the former Production Area between June 24 and 28, 2013 and January 7 through 17, 2014 for analysis of PCBs on a 20 ft grid in five areas (see **Figure 3-3**). Samples were collected from multiple depth intervals to a maximum depth of 6 ft bgs.

Additional soil borings were advanced in northern portions of the Site from 0-0.5 ft bgs on January 7, 2014. Six soil borings (SB-138 through SB-143, illustrated on **Figure 3-2)** were advanced in the

former parking areas along the northern property boundary and analyzed for TPH, metals, and SVOCs. Six borings (SB-144 through SB-149, illustrated on **Figure 3-2**) were advanced on the eastern property boundary adjacent to the buildings. These soil samples were analyzed for metals, PCBs, and SVOCs. Samples collected were submitted under Chain of Custody to ESS. QA/QC samples were collected at a frequency of one per 20 analytical samples or 1 minimum per day.

Non-PCB grid soil boring locations are depicted in **Figure 3-2** and soil boring logs are attached in Appendix E.

3.4 Soil Gas Sampling

Soil gas sampling was performed in the vicinity of the laboratory building to evaluate for the presence of potential impacts resulting from laboratory operations. On June 12, 2012, four temporary soil vapor points (SG-1 through SG-4) were drilled and installed to a depth of 6 ft bgs using hand-held equipment (**Figure 2-2**). Vapor points were 6" long stainless steel points connected to the surface with tubing. Soil vapor samples were collected on June 14, 2012 (SG-1 through SG-3). Problems collecting a sample at SG-4 were encountered on June 14, 2012. A second attempt to collect a sample was made on July 25, 2012 when SG-4 and a duplicate sample were successfully collected. All samples were collected using SUMMA canisters and transported to ESS laboratory under Chain of Custody and they were analyzed for VOCs by method TO-15.

Two sub slab soil vapor and eight ambient air samples were collected from interior basements/first floors of the site buildings and one exterior, upgradient, air sample was collected on January 16, 2014 (locations shown in **Figure 3-2**). Sub-slab soil vapor samples were collected via 6-in stainless steel probes coupled to stainless steel tubing to grade. Samples were collected into SUMMA canisters. Ambient air samples were collected with 8-hr regulators. Sub-slab soil vapor samples were collected with 1-hr regulators. A trip blank was submitted for the sub-slab soil vapor samples. All air samples were transported to Spectrum Analytical under Chain of Custody, and analyzed for VOCs by method TO-15.

4.0 Results

The data that were collected from the several phases of groundwater, soil, and soil vapor sampling are summarized in text, tables, and figures of this report to update the conceptual site model and provide a basis for the selection of appropriate remedial action(s).

4.1 Overview

The objectives for this Supplemental RI were to:

- Close data gaps that were not addressed during previous investigations at the Site,
- Update the contaminant concentration dataset at locations where historical data may not be representative of current conditions (i.e., data 10 years old or greater),
- Revise the CSM for soil and groundwater impacts, and
- Provide additional data upon which to conduct a corrective measures study (CMS) to address remaining soil and groundwater impacts.

This section presents the results of the characterization relative to the objectives.

4.2 Groundwater Results

4.2.1 Groundwater Flow

Synoptic rounds of groundwater elevations were collected on June 11, 2012 and November 6, 2012. The data are tabulated in Table 4-1. The groundwater potentiometric maps for shallow and deep groundwater (**Figures 2-5A, 2-5B, 2-6A, and 2-6B**) present the horizontal groundwater flow direction at the Site. The data for June and November 2012 were comparable. Groundwater flow direction across the Site is to the southeast, toward the Pawtuxet River. **Figure 2-7** shows a hydrogeological interpretation in cross-sectional view, where groundwater flows toward and discharges to the river. The figures show that a bulkhead wall is present along the northern bank of the River, orthogonal to groundwater flow direction, to a depth of 25 ft bgs. Groundwater extraction wells, PW-110, PW-120, PW-130, are located along the river, on the north side of the bulkhead wall and are not currently operational.

4.2.2 Volatile Organic Compounds (VOCs)

Groundwater quality samples were collected from existing monitoring wells, extraction wells and Geoprobe locations. The data are tabulated in **Table 4-2**. Supplemental data from recent groundwater sampling events are included in Appendix F, **Table F-1**. **Figures 4-1 through 4-10** provide an interpretation of the current groundwater impacts for chlorobenzene, 1,2-dichlorobenzene, 2-chlorotoluene, toluene, and total xylenes. The vertical distribution is shown through cross-sections presented in **Figures 4-11 through 4-15**.

The focus of the groundwater sampling was to obtain a snapshot of VOC concentrations throughout the Production Area. Specifically, the goal of the groundwater characterization was to identify VOC concentrations in excess of the MPS and use that information to select locations for VOC sampling of soil to evaluate for potential remaining recalcitrant source zones. A secondary goal of the

investigation was to rule out any potential sources of contamination that had been identified as data gaps.

A total of 51 groundwater samples were collected from 28 monitoring wells, 3 extraction wells, and 10 temporary groundwater grab locations (GW-series), for VOC analysis during 2012. The data were compared to the MPS. Based on results of the 2012 groundwater investigation, additional groundwater grab sampling and groundwater profiling activities were completed to characterize the extent of Site COCs in July 2013 and January 2014. Results are presented in **Table 4-2**. There were 10 groundwater samples where one or more MPS were exceeded in groundwater from the groundwater samples collected in 2012.

In the southern third of the Production Area, in the area of Building 19 and Building 21, south to the Site property boundary and east to the Pawtuxet River, five groundwater grab samples and five monitoring well samples exceeded the MPS for various Site COCs in the first phase of work.

To supplement previous groundwater sampling efforts and to provide more insight into the transport of Site COCs, a second phase of work was implemented in 2013/2014 where additional groundwater sampling was conducted at several monitoring wells and groundwater grab samples were collected from hydraulic profiling points focusing on more permeable zones in the heterogeneous aquifer (WPT-series). Results identified several impacts in the downgradient portion of the Site in the vicinity of the bulkhead. To determine whether a complete pathway exists between the upland portion of the Site and Pawtuxet River, five piezometers were installed (PZ-series) into the river sediments and sampled. Site COCs were identified at levels exceeding the MPS in the shallow and deep river piezometers. Results for each COC are discussed in the following sub-sections and the results are shown graphically in **Figure 4-1**.

<u>Chlorobenzene</u>: Groundwater grab samples GW-6 (19-21 ft bgs), GW-7 (19-21 ft bgs), GW-7 (24-26 ft bgs), GW-8 (19-21 ft bgs), and monitoring wells P-35S (screened at 10 ft to 15 ft BGS), MW-100D (20-25 ft bgs), MW-101D (20-25 ft bgs) and MW-102D (20-25 ft bgs) contained chlorobenzene concentrations that exceeded the MPS. This suggests that these locations, or locations immediately upgradient, may contain isolated, recalcitrant source material.

During the second phase of work, chlorobenzene was detected in several locations exceeding the MPS, including: P-35S, MW-102D, MP-3I, WPT-02 (16.6 ft bgs), WPT-06 (15.2 ft bgs), WPT-07 (15.0 ft bgs), PZ-01D (14-15 ft into natural material), PZ-01S (3.5 -4.5 ft into natural material), and PZ-02S (3.5 – 4.5 ft into natural material). These locations are situated in southern portions of the former production area, with WPT and PZ locations just upgradient of and within shallow portions of the river, respectively.

Figures 4-1 and 4-6 present contour maps of chlorobenzene distribution in deep and shallow groundwater, respectively. **Figure 4-11** presents the chlorobenzene distribution contours in cross section (Figure 2-3 provides section A-A' location). The MPS contour (1.7 mg/L) is provided. The concentrations of chlorobenzene in soil above 1 mg/kg are included on the plan view figures to view the relationship between elevated soil and elevated groundwater concentrations.

<u>1,2-Dichlorobenzene</u>: During the first phase, GW-1 (26-28 ft bgs), GW-1 (31-33 ft bgs), and GW-6 (19-21 ft bgs) recorded concentrations that exceeded the 1,2-dichlorobenzene MPS (0.094 mg/L). In 2012/2013 Phase 2 sampling, MP-3I, MP-3S, WPT-04 (25.4, 33.5, and 45.4 ft bgs), WPT-06 (15.2 ft bgs), PZ-01S (3.5-4.5 ft into natural material), PZ-02S (3.5-4.5 ft into natural materials), PZ-01D (14-15 ft into natural material), and PZ-02D (15-16 ft into natural material) exceeded the MPS for 1,2-dichlorobenzene.

Figures 4-2 and 4-7 present the 1,2-dichlorobenzene plume in deep and shallow groundwater, respectively. **Figure 4-12** presents the 1,2-dichlorobenzene plume in groundwater along cross-section A-A'. The MPS contour (0.094 mg/L) is presented. The concentrations of 1,2-dichlorobenzene above 1 mg/kg in soil are included on the figures to view the relationship between elevated soil and elevated groundwater concentrations.

The data show that 1,2-DCB is migrating to the river sediments above the MPS (**Figures 4-2 and 4-12**). In addition the MPS impact has migrated below the sand and gravel layer (see Figure 4-12). The concentration trend is decreasing downward at WPT-04 (see Table F-1) implying that this impact is the result of the operation of extraction wells PW-120 and PW-130 which are screened to this depth (i.e., drawdown due to pumping).

2-Chlorotoluene: During the first phase, GW-7 (19-21 ft bgs) and MW-102D recorded 2-chlorotoluene concentrations that exceeded the MPS (1.5 mg/L). In 2013 (phase 2), 2-chlorotoluene was identified in MW-102D and MP-3I at concentrations exceeding the MPS. Figures 4-3 and 4-8 present the 2-chlorotoluene plume in deep and shallow groundwater, respectively, in plan view. **Figure 4-13** presents the 2-chlorotoluene plume in groundwater in cross-section A-A'. The MPS contour (1.5 mg/L) is provided. The concentrations of 2-chlorotoluene in soil above 1 mg/kg are included on the figures to view the relationship between elevated soil and elevated groundwater concentrations.

Toluene: In 2012, GW-7 (19-21 ft bgs), GW-8 (19-21 ft bgs) and MW-102D contained toluene concentrations that exceeded the MPS. Sampling conducted in 2013 of MW-102D identified toluene above the MPS (1.7 mg/L). Figures 4-4 and 4-9 present the toluene plume in deep and shallow groundwater, respectively, in plan view. Figure 4-14 presents the toluene plume in groundwater in cross-section A-A'. The MPS contour (1.7 mg/L) is presented. The concentrations of toluene in soil above 1 mg/kg are included on the figures to view the relationship between elevated soil and elevated groundwater concentrations.

Total Xylenes: In 2012, MW-102D and MW-34S contained total xylene concentrations that exceeded the MPS (0.078 mg/L). MW-102D was sampled in 2013, and xylenes were detected at a concentration above the MPS. **Figures 4-5 and 4-10** present the total xylene plume in deep and shallow groundwater, respectively, in plan view. **Figure 4-15** presents the xylenes plume in groundwater in cross section A-A'. The MPS contour (0.078 mg/L) is presented. The concentrations of total xylenes in soil above 1 mg/kg are included on the figures to view the relationship between elevated soil and elevated groundwater concentrations.

Additional VOCs: Additional VOCs without established MPS were identified at levels exceeding the RI DEM GB groundwater objective. The following VOCs were detected above criteria during the 2013/2014 field effort:

- Tetrachloroethene (PCE) was identified above the RI DEM GB groundwater objective in WPT-04 (25.4, 33.55, 45.4 ft bgs).
- Vinyl chloride (VC) was identified above the RI DEM GB groundwater objective in MP-3S, MW-2S, MW-31D, PZ-01S, PZ-01D, PZ-02S, PZ-03D, WPT-01 (30.24, 40.5 ft bgs), WPT-02 (29.1 ft bgs), WPT-03 (36.8, 43.8 ft bgs), WPT-04 (33.55, 45.4 ft bgs), WPT-05 (35.86, 41.36 ft bgs), and WPT-06 (33.2, 43.18 ft bgs).
- Benzene was identified above the RI DEM GB groundwater objective in PZ-01D, PZ-01S, and PZ-02S.

In all cases these compounds were collocated with one or more MPS compounds in the southwestern corner of the production area. The source for these compounds may be associated with onsite solvent use or from offsite migration, and their migration has likely been affected by the operation of pumping wells PW-120 and PW-130, screened to 38 and 40 ft bgs, respectively.

4.2.3 Polychlorinated Biphenyls (PCBs)

PCBs were detected in groundwater above the MCL in samples collected from MP-3I and MP-3S during July 2013. These wells were installed in 2012 as part of the AVE/AS pilot test. Where PCBs were detected in groundwater, one sample (MP-3I, 18-22 ft bgs) had an elevated turbidity (538 NTU) and a second sample (MP-3S, 5-13 ft bgs) had low turbidity (2.9 NTU). PCBs could be sorbed to soil particles or dissolved in water at low concentrations with co-solvents, or these detections may be due to carry down during well installation. PCB concentrations are not detected in groundwater in other parts of the upland area (MW-21S, MW-34D, MW-102D) and are also not detected in the downgradient direction at MW-2S and in other wells along the river (MW-31S, MW-31D, MW-29D, P-30D, P-35S).

4.3 Soil Results

Soil samples were collected to both characterize ongoing sources for groundwater impacts above the MPS (i.e., VOC impacts above and below the water table) and to characterize remaining shallow soil impacts that have the potential to cause ongoing direct contact risk exposures (i.e., PCB impacts above the water table). In addition, for completeness in determining future land use options, while not considered Site COCs, analyses for semi-volatile organic compounds (SVOC), metals, pesticides and total petroleum hydrocarbons (TPH) were also conducted.

With respect to VOCs, the following existing data were used to identify data gaps:

1. Previous RI data and remedial action documentation;
2. Long-term time trends at existing monitoring and pumping wells;
3. MIP study results from 2007 and the related soil and groundwater data from that study (included in Appendix A) were used to establish a soil and groundwater monitoring program that would target areas of impact for investigation; and
4. AS/SVE pilot test was completed in the summer of 2011 (see Section 2.2.4). Monitoring points that were installed to monitor the test and to monitor groundwater outside the area of impact (MW-100S/D, MW-101S/D, and MW-102S/D) indicated that area of contamination was larger than was determined based on previous data.

As presented in the sections above, groundwater monitoring was completed to identify areas in soil beneath the water table that should be targeted for soil sampling during the Supplemental RI. A second MIP study was planned for the Supplemental RI to follow the groundwater monitoring event such that the soil boring depth intervals to be sampled and their locations could be pinpointed. The groundwater analytical data and field observations were used to locate nine additional soil samples (SB-127 [deep], SB-130 through SB-137, **Figure 3-2**), as described below, that were submitted for VOC analysis.

With regard to shallow soil PCB delineation, **Figure 3-3** shows the area associated with previous remedial action (Section 3.3.2). As part of the current study, soil borings SB-101 through SB-129 (0-2 ft bgs) [**Figure 3-2**] were advanced to confirm the results of the Revised On-Site IRM Report (Woodward-Clyde, 1996), fill data gaps from the historical data evaluation, and provide data upon

which a risk-based closure can be derived. **Figure 3-3** presents a color-dot map relating to the PCB concentrations in IRM confirmatory (CF-series) and 2012 (SB-series) PCB soil samples. The SB-series locations shown are shown on **Figure 3-3** and the location identification is provided in **Figure 3-2**.

Completion of the planned investigation was accomplished by using an iterative dynamic approach to the investigation, incorporating field screening techniques, field-based decision-making and real-time evaluation of data to modify the sampling plan. **Figure 3-2** presents the actual soil boring locations which may differ from the plan presented in the May 2012 Workplan due to the dynamic approach and localized areas of refusal due to the presence of concrete pilings, foundations, etc.

The selection of soil boring locations and depth intervals at SB-130 through SB-137 (**Figure 3-2**) was driven by VOC delineation and based on groundwater analytical results from the groundwater grab and low-flow sampling.

Based on the results of the shallow soil PCB delineation and presentation of historical PCB data, EPA requested additional soil characterization on 20 ft grid spacing. A SRI Workplan Addendum was submitted to EPA on May 6, 2013, approved by EPA on June 11, 2013, and finalized on June 18, 2013. During 2013/2014, PCB samples were collected on a 20 ft grid at varying depths (not exceeding 6 ft bgs) from five areas in the former Production Area. Predefined sample intervals were submitted for laboratory analysis depending on the location and depth of the boring. Additional soil samples were collected and placed on hold pending the outcome of the first round of analysis, as specified in the SRI Workplan Addendum (June 2013). Activation and subsequent analysis occurred where elevated PCB results warranted identification of the full nature and extent of the impacts.

During 2014, additional soil borings were advanced to characterize PCB data gaps in the Production Area as well as remaining data gaps in the northern parcel and areas adjacent to the remaining site buildings (SB-138 to SB-149 [**Figure 3-2**]). The results of the shallow soil sampling conducted during 2013 and 2014 are included in **Table F-2**.

SVOC, metals, pesticides and total petroleum hydrocarbons (TPH) data were also collected and the results compared to the RIDEM Industrial/Commercial Direct Exposure Criteria (I/C DEC). While these compounds were not identified as COCs for the Site, their nature and extent will be used to define necessary remediation and future land use options.

4.3.1 Polychlorinated Biphenyls (PCBs)

A MPS of 50 ppm was derived for PCBs in soil on-Site (Woodward-Clyde, 1996). The goal of the On-Site Soil IRM (Woodward-Clyde, 1996) was to remove soil from the top 2 ft in the Production Area that had PCB concentrations greater than 45 ppm (a conservative target of 45 ppm was set at 10% below the MPS). Four phases of IRM work were completed and confirmatory sample concentrations from the historical soil analysis were collected at each phase. In some isolated cases, elevated PCB concentrations were left in place due to inaccessibility constraints (i.e., the presence of former building foundations). **Figure 3-3** presents the excavation footprint and post-excavation sample locations. These data are provided in **Table 4-4**.

In July 2012, a total of 58 soil samples and 5 field duplicates were collected and submitted for PCB analysis, as described in Section 3.3.2. **Figure 3-3** shows the PCB data locations from the historical IRM confirmatory sampling, the current study, and these data are presented by color-dot to show the concentration distribution. The tabulated data are provided in **Tables 4-3 and 4-4**. **Table F-3** provides

a data summary. As shown in **Figure 3-3**, several areas exceed regulatory thresholds for the MPS (50 mg/kg) and/or the I/C DEC (10 mg/kg).

Several soil samples in the northern area were also analyzed for PCB (SB-144 through SB-148, SB-128, SB-129) to confirm that PCBs are not present in this area. Table X shows that PCB were not detected north of the railroad tracks and in the building and parking lot areas.

4.3.2 Volatile Organic Compounds (VOCs)

4.3.2.1 MIP Results

A MIP was advanced to a depth of 40 ft bgs at five locations on-Site (SB-108, SB-114, SB-130, SB-133 (**Figure 3-2**) and direct sensing readings were collected. The locations were chosen based on the highest likelihood of capturing any previously uncharacterized soil/groundwater impacts and were selected to complement the earlier MIP locations from 2007 (locations MIP 1, MIP 2, MIP 5, MIP 7 [**Figure 3-2**]), data gaps identified from past reports (SB-101 through SB-129), and from groundwater data collected in Phase I of the Supplemental RI (SB-127 (deep), SB-130 through SB-137).

The purpose of the MIP locations was to refine the vertical delineation of persistent residual source areas within the subsurface in order to target specific vertical intervals for a mass flux and/or remedial evaluation. While the MIP provided some definition in terms of conductivity changes over discrete vertical zones, there was no indication in any of the probe locations that a corresponding PID, FID, or ECD spike to suggest a potential source zone. The conclusion of the MIP work is that these targeted locations were outside of the isolated source zones and are unimpacted by VOCs.

4.3.2.2 Soil Analytical Results

Of 67 soil samples collected above and below the water table and submitted for VOC analysis in 2012 sampling (see **Figure 3-3** for location and Table 4-3 for result summary), none exceeded the RIDEM DEC for industrial/commercial property. Detectable concentrations of Site COCs in shallow soil samples (0 to 2 feet bgs) were not observed.

With regard to soil/aquifer impacts that have the potential to result in groundwater impacts in excess of the MPS, consider the following. Soil samples collected during the 2011 AS/SVE pilot test from two monitoring points, MP-1D, MP-3D contained elevated COC concentrations (presented in Table 4-3). From 8-10 ft bgs, MP-1D contained 210 mg/kg chlorobenzene and other COCs 1,2-dichlorobenzene, xylenes, and ethylbenzene were in the range of 1.5 to 4.3 mg/kg. MP-1D (12-13 ft bgs) also contained significant concentrations of chlorobenzene (34 mg/kg) as well as 1,2-dichlorobenzene (50 mg/kg). Similarly, elevated concentrations of 1,2-dichlorobenzene (119 mg/kg) and chlorobenzene (39 mg/kg) were detected in MP-3D, along with 15.6 mg/kg toluene and 3 mg/kg total xylenes. Boring data from monitoring well location MW-100D had lower concentrations of Site COCs than the MP-series locations but concentrations were elevated compared to the rest of the Production Area and were in the part per million range.

Given these soil data and available groundwater data, nine soil sample intervals were selected to better delineate potential source material (SB-127 10-12 ft bgs, SB-130 19-21 ft bgs, SB-131 19-21 ft bgs, SB-132 20-22 ft bgs, SB-133 19-21 ft bgs, SB-134 20-22 ft bgs, SB-135 20-22 ft bgs, SB-136 20-22 ft bgs, SB-137 22-24 ft bgs). 2-chlorotoluene was detected at 112 mg/kg in SB-132 (20-22 ft bgs) and from 3.25 to 4.22 mg/kg at three other sample locations (SB-133, SB-134, SB-136). Toluene is present in soil at 4.7 and 6.3 mg/kg at SB-132 and SB-133, respectively. **Figures 4-1 and 4-6** present chlorobenzene concentrations that exceed the MPS in groundwater as well as concentrations that

exceed 1 mg/kg in soil. **Figure 4-11** presents the chlorobenzene impacts in groundwater in a cross-section that bisects the Site from the upland area to the groundwater discharge at the Pawtuxet River.

During PCB grid sampling conducted in January 2014, evidence of residual source zone VOC impacts were noted by visual and olfactory observation at grid locations E300 and E280. Elevated PID headspace readings were indicative of high VOC content. Thus, in addition to PCB sampling, VOCs were analyzed in E280 (1-2, 2-4, and 4-6 ft bgs) and E300 (4-6 ft bgs). Elevated concentrations of 1,2-dichlorobenzene (71.1 mg/kg in E300 at 4-6 ft bgs), chlorobenzene (43.0 mg/kg in E300 at 4-6 ft bgs), 2-chlorotoluene (21,300 mg/kg in E300 at 4-6 ft bgs and 18,900 mg/kg in E280 at 2-4 ft bgs) ,and toluene (811 mg/kg in E300 at 4-6 ft bgs) were recorded at these boring locations. There is an indication from field notes that these detections were found above or around foundation structures remaining in the ground after plant decommissioning. The results of the soil sampling for VOCs conducted during 2014 are included in Table F-4.

Based on the soil and groundwater data and the groundwater flow direction, the envelope of potential soil impacts capable of affecting groundwater quality above the MPS is outlined in the plan-view (**Figures 4-1 through 4-10**) and cross-section (**Figures 4-11 through 4-14**).

4.3.3 Semi-Volatile Organic Compounds (SVOCs)

Forty-one soil samples were analyzed for SVOCs across the Site (north and south of the railroad tracks (Table 4-3 and F-2 and Figures 3-2 and 3-4).

Several SVOCs were identified above RI DEM I/C DEC in the northern parcel, including:

- Benzo(a)anthracene: Identified above I/C DEC of 7.8 mg/kg in SB-139.
- Benzo(a)pyrene: Identified above I/C DEC of 0.8 mg/kg in SB-139, SB-144, SB-145, and SB-147.
- Benzo(b)fluoranthene: Identified above I/C DEC of 7.8 mg/kg in SB-139.
- Dibenzo(a,h)anthracene: Identified above I/C DEC of 0.8 mg/kg in SB-139.
- Indeno(1,2,3-cd)pyrene: Identified above I/C DEC of 8 mg/kg in SB-139.

Locations with concentrations are included in **Figure 3-4**. Analytical results and RI DEM DEC criteria are presented in **Table F-2**. These compounds represent common contaminants in urban settings. They can be present as a result of combustion of fossil fuels and leaching from paved surfaces, including automobile emissions, and are ubiquitous in the urban environments within New England (Bradley, LJN *et al.*, 1994).

4.3.4 Metals

Of 29 soil samples collected across the Site and submitted for metals analyses (see **Table 4-3**), no exceedances of I/C DEC were noted. Arsenic concentrations in soil ranged from non-detect to a maximum of 6.6 mg/kg on-Site. Zinc concentrations in soil ranged from 7.5 to 411 mg/kg. Cadmium concentrations in soil ranged from non-detect to a maximum of 2.78 mg/kg. Copper, manganese, mercury, nickel, and vanadium were also detected.

4.3.5 Pesticides

Of 29 soil samples collected across the Site and submitted for pesticide analysis (see **Table 4-3**), one detection each of chlordane and dieldrin was observed. Chlordane was detected at a concentration of

0.163 mg/kg at SB-128 (0-2 ft bgs) which is below the RIDEM DEC level of 4.4 mg/kg for industrial/commercial sites. Dieldrin was detected at a concentration of 0.0156 mg/kg at SB-124 (0-2 ft bgs) which is below the RIDEM DEC level of 0.4 mg/kg.

4.3.6 Total Petroleum Hydrocarbons

Total petroleum hydrocarbons (TPH) were analyzed in six soil samples collected from SB-138 to SB-142 located in the parking area north of the Site buildings. TPH was identified in the sample collected from SB-139 at 0-0.5 ft below the asphalt cover at a concentration exceeding the Residential (R) DEC, but does not exceed I/C DEC. Future anticipated use will remain as industrial/commercial and the asphalt cover will be kept in place.

4.4 Soil Gas Results

Four soil gas samples were collected (SG-1 through SG-4) with one duplicate sample at SG-4 to investigate a potential data gap of off-site vapor migration (**Figure 3-4**). Laboratory analysis by EPA Method TO-15 was performed and analytical data are presented in **Table 4-4**. Chloroform, bromodichloromethane, and naphthalene detections in soil gas exceeded the EPA Vapor Intrusion Screening Levels for Residential Soil Gas by a factor of 170, 7.6, and 5.4, respectively. Note that chloroform and bromodichloromethane are commonly detected in municipally-treated drinking water and their presence is likely related to yard watering and/or swimming pool use. None of these compounds were detected in the Production Area groundwater, and they are not considered to be Site COCs.

During January 2014, two sub-slab soil vapor samples were collected from interior portions of the site buildings (Building 15). Six additional locations were proposed in the Work Plan (AECOM, May 6, 2013), however, it was determined that the basements of the remaining buildings had floating slabs (i.e. concrete floors poured to overcome hydrostatic pressure due to a high groundwater table). To prevent any potential issues with future leaking of the slab, the sub-slab soil vapor points were not installed in Buildings 25, 20, and 26 where groundwater levels were determined to be above the depth of the basement floor. Eight indoor ambient air samples were collected from the site buildings (Buildings 15, 25, 20, and 26 two from each building). The two indoor air samples collected from Building 15 were coincident with the sub-slab soil vapor points installed in the building. One outdoor air sample was collected for comparison to background conditions.

The results for the January 2014 sampling are presented by building below.

<u>Building 15:</u> Benzene was detected in indoor air above the screening level in both indoor air samples, however, it was not detected in sub-slab vapor in either sub-slab vapor sample. It was also detected in the outdoor air sample. These results indicate the benzene detects in indoor air were not due to the vapor intrusion pathway, but may be due to an indoor and/or outdoor source. Chloroform and ethylbenzene were detected in sub-slab vapor above screening levels. However, these compounds were not detected in indoor air samples and therefore do not pose a health concern via the inhalation pathway to building occupants.

<u>Building 25:</u> Of the two indoor air samples, trichloroethene (TCE) was detected at concentration of 6.83 ug/m3 in indoor air above the screening level of 2.99 ug/m3 (USEPA Commercial Indoor Air VISLs) in one of the two samples and was not detected above the reporting detection limit in the other. TCE was not detected in the outdoor air sample. Because sub-slab vapor samples could not be collected in this building due to the floating slab building construction, there is insufficient evidence to be able to determine whether the TCE concentration detected in indoor air was present due to the vapor intrusion pathway or an indoor source. TCE was not detected in soil gas samples collected

adjacent to and east of the building, and it was not detected in groundwater in this area. Although the concentrations of TCE in indoor air are above the screening level, the cumulative risk from all detected compounds in indoor air in these samples were below RIDEM's target cumulative risk level of $1x10^{-5}$ (midpoint of USEPA's target cumulative risk range) and the total hazard index (HI) was below RIDEM/USEPA's target HI of 1, indicating that there is no unacceptable risk/hazard associated with inhalation of indoor air within this building.

Building 26 and 20: Benzene and chloroform were detected in all four of the indoor air samples collected from these two, connected buildings at concentrations above the screening level. Concentrations of benzene ranged between 1.75 and 2.04 ug/m3 in Building 20 and 1.82 to 1.85 ug/m3 in Building 26 thus exceeding the USEPA Commercial Indoor Air screening level of 1.57 ug/m3. Concentrations of chloroform ranged 5.31 to 11.24 ug/m3 in Building 20 and 3.8 to 4.67 in Building 26, exceeding the USEPA Commercial Indoor Air screening level of 0.53 ug/m3. Neither chloroform nor benzene were identified in groundwater samples collected north/upgradient (NP-GW2) or south/downgradient (NP-GW1) of Building 26/20. Sub-slab vapor samples could not be collected in this building due to the floating slab building construction. Benzene was also detected in the outdoor air sample at a concentration only slightly lower than in indoor air. Chloroform was not detected in outdoor air above the reporting detection limit. Based on these results, an outdoor source of benzene cannot be ruled out.

The presence of chloroform and benzene within the former laboratory buildings could be related to use as solvents during bench-scale research during plant operation (laboratory benches, fume hoods, floors, and counters remain in these buildings). Minor counter spills over time could slowly de-gas within the building. Regarding the chloroform, application of bleach to floor surfaces will generate trihalomethanes, including chloroform. Chloroform is usually the dominant trihalomethane generated.

Because sub-slab vapor samples could not be collected in this building, there is insufficient evidence to be able to determine whether the benzene and chloroform concentrations detected in indoor air were present due to the vapor intrusion pathway or an indoor and/or outdoor source. However, although the concentrations of benzene and chloroform in indoor air were above the screening levels, the cumulative risk from all detected compounds in indoor air in these samples were below RIDEM's target cumulative risk level of $1x10^{-5}$ (midpoint of USEPA's target cumulative risk range) and the total hazard index (HI) was below RIDEM/USEPA's target HI of 1, indicating that there is no unacceptable risk/hazard associated with inhalation of indoor air within this building.

5.0 Updated Conceptual Site Model

The CSM was updated to incorporate the data from this Supplemental RI and historical data. The historical data that were summarized and presented in the RFI Interim Report (Ciba, 1991), RFI (Ciba, 1995), Stabilization Investigation Report and Design Concepts Proposal (Ciba, 1993), Revised On-Site Interim Remedial Measures Report (Woodward-Clyde, 1996), recent groundwater monitoring data (Ciba, 2007-2008), and supplemental soil investigation data (2007) that were collected after the GETS system and SVE system had operated for several years, were reviewed.

5.1 Data Gap Review

Refer to Figure 2-1 for location of area descriptions presented below.

SWMU 2, 3, 7: Soil borings SB-101 through SB-105 were located in the area of SWMUs 2, 3, and 7. No VOC detects were noted; SVOC detections were low and near the detection limit. Neither metals nor pesticide concentrations exceeded the RIDEM DEC industrial/commercial levels. A detection of total PCBs <10 mg/kg was noted at SB-102 (location shown on Figure 3-2) from 0-2 ft bgs but this is related to site-wide PCB impacts throughout the Production Area. These former SWMUs do not represent an ongoing data gap. No further action for these SWMUs is warranted.

SWMU 4: Soil boring SB-122 was located adjacent to the former trash compactor. No impacts to surface soil by VOCs, SVOC, metals, or pesticides exceeded RIDEM DEC industrial/commercial levels. A detection of total PCBs was noted to be >10 mg/kg at SB-122 from 4-6 ft bgs but this is related to site-wide PCB impacts throughout the Production Area. This former SWMU does not represent an ongoing data gap. No further action for this SWMU is warranted.

SWMU 8: Soil borings SB-120 and SB-121 were located adjacent to the former solvent recovery area. No impacts to surface soil by VOCs, SVOC, metals, or pesticides were noted to exceed RIDEM DEC industrial/commercial levels. A detection of total PCBs was >10 mg/kg at SB-121 from 0-2 ft bgs but this is related to site-wide PCB impacts throughout the Production Area. Adjacent groundwater monitoring locations, GW-10 and MW-13S, did not contain any detectable VOC concentrations. This former SWMU does not represent an ongoing data gap. No further action for this SWMU is warranted.

SWMU 11: The MIP location at SB-108 was advanced to 40 ft bgs and there was no indication that VOCs were present below the former Building 11 area. There was a low detection of 2-chlorotoluene at SB-108 (depth) that was close to the detection limit. No other compounds were detected or exceeded the RIDEM DEC industrial/commercial levels. In addition to the MIP/boring data, PID-based sampling was necessary at two PCB sampling locations, E280 and E300. Data collected at (depth) showed toluene and 2-chlorotoluene above I/C DEC in soil within the former SWMU 11 area. This area is within the SVE treatment area (Section 2.2.4) and it represents a localized area of residual impact.

AAOI 15 Former Laboratory Building Piping: There were no elevated detections of VOCs, metals, pesticides or PCBs in this area. However, benzo(a)pyrene and dibenzo(a,h)anthracene were elevated above the RIDEM DEC levels at SB-128 for industrial/commercial use. No exceedences were identified in soil borings SB-148 and SB-149, used to delineate the impacts noted in SB-128. No exceedances were noted at SB-129. Limited impacts of PAHs are ubiquitous in urban environments. Their prevalence can be attributed to byproducts of combustion. This area does not represent an ongoing data gap. These results are consistent with the conclusions drawn in the 1995 RFI that this area does

not constitute an area of concern, though the data do show that future land use determinations will need to address potential direct contact exposure scenarios with the PAHs in soil.

NAPL Area Near MW-34: The well cluster of MW-34S and MW-34D are directly north of the impacted Southern Production Area. Groundwater results from MW-34S show a MPS exceedance for total xylenes. No NAPL was observed in the well. Shallow soil samples in the vicinity of MW-34 (soil borings SB-110 through 115) showed no impacts of VOCs. Figures 4-5, 4-10, and 4-15 delineate the presence of elevated xylene concentrations in groundwater.

Jet Sump Area: There was a boiler plant jet sump failure in the southern portion of the site and observation of possible solvent in the sump in the mid-1970s. Footings for the boiler plant were exposed and a large area beneath the building was filled in with concrete for structural support in approximately 1978 (based on interview with facility staff). This area coincides with the elevated soil concentrations denoted in the 2007 MIP investigation at MIP-1, MIP-2, MIP-5, and MIP-7 (Figure 3-2). This area appears to host the highest concentrations of VOCs in soil and groundwater on the Site. Primarily, the former Building 16 area has high VOC concentrations as well as the former Building 23 area to the west, Building 19 to the north and Building 22 to the northeast. VOC impacts in the former Jet Sump Area have been adequately delineated.

Buildings #10/#18 Boiler Room & Transformers: TPH samples collected from the area (SB-115, SB-116) were below screening levels and no impacts from the boilers appears to have occurred. Total PCBs were detected at a concentration of 71.8 mg/kg at SB-119 at a depth of 4-6 ft bgs, adjacent to the transformer area. This detect is below the depth subject to the PCB soil excavation remedy conducted in 1995 (Section 2.2.2).

Building #24 Zinc Rail Car Area: Soil samples SB-120 and SB-121 do not contain zinc above RIDEM DEC screening levels nor do these samples contain other COCs. This former area does not represent an ongoing data gap. No further action for this SWMU is warranted.

Building #21 Zinc Sump: Soil samples SB-110, SB-113, SB-114 do not contain zinc above RIDEM DEC screening levels. However, sample SB-114 0-2 ft bgs contains 36.7 mg/kg total PCBs and SB-113 contains 19.3 mg/kg total PCBs. This area does not represent an ongoing data gap with respect to the presence of zinc. While this area was not subject to the 1995 PCB removal action, the presence of PCBs is likely related to the former activities at Buildings 19 and 16.

Building #21 Tank Farm: Based on the results from soil sample SB-131 collected from a depth of 19-21 ft bgs, the former Building 21 tank farm area (located in the southern section of the Building 21 footprint) appears to be on the northern edge of the residual zone containing Site COCs that impact downgradient groundwater. The chlorobenzene concentration in soil was 16.4 mg/kg.

Piping Runs: Soil samples SB-111, SB-112, and SB-119 are impacted by the site-wide PCBs in soil to 6 feet bgs. No other COCs are elevated along the former piping runs with the exception of SB-133 at the southern end of the former piping run which terminates in the Jet Sump impact area where 2-chlorotoluene, toluene, and chlorobenzene are in the part per million range.

Hot Sump: Based on the results from groundwater grab GW-5, the former hot sump does not appear to be impacted by past operations. No further action is warranted in this area of the Site.

Septic Tank: Based on historical information, the site previously utilized one septic system for wastewater disposal prior to Ciba building a wastewater treatment plant off-Site in 1975. The associated sewage tank is located to the east of Building 14. No soil or groundwater impacts adjacent

to this area are apparent, therefore this area does not appear to represent an ongoing data gap. However, the septic tank will be properly abandoned during future Site remedial actions.

UST Vault/Underground Tunnel: Facility staff were able to find photodocumentation of the UST removal in the vault and underground tunnel area. The sample collected at SB-124, adjacent to the former vault had no detections of Site COCs. This area does not represent an ongoing data gap. No further action for this SWMU is warranted.

Loading Dock: Soil samples collected from SB-125 and SB-126 were analyzed for metals, pesticides, VOCs, SVOCs, and PCBs. There were no detections above the RIDEM DEC levels. This former area does not represent an ongoing data gap. No further action for this SWMU is warranted.

Former Laboratory Buildings (#20 and #26), Warehouse (#25) and Warehouse/WWTP (#15): There were no elevated detections of VOCs, metals, pesticides or PCBs in this area north and east of Building 20. However, some locations had levels of benzo(a)pyrene and/or dibenzo(a,h)anthracene that were elevated above the RIDEM Industrial/Commercial DEC levels (SB-128, SB-139, SB-144, SB-145, and SB-147). No exceedances were noted at SB-129.

TPH and SVOCs were identified above I/C DEC in the parcels located to the north of the site buildings. These parcels served as parking areas for the site buildings. The TPH and SVOC compounds detected are known to be associated with blacktop (bituminous pavement), and given that they are not pervasive across the property, this former area does not represent an ongoing data gap.

Grab groundwater samples NP-GW1 and NP-GW2 had no detections of VOCs in groundwater.

While there was no indication of a VOC release in and around the former office, lab and warehouse area, soil gas results collected along the western side of buildings 15 and 21 exceeded some EPA Vapor Intrusion Screening Levels for Soil Gas in residential areas. The compounds that exceed risk screening levels, chloroform and bromodichloromethane, are commonly related to drinking water treatment chemistry and are not deemed to be related to Site operations. Chloroform was not detected in groundwater samples collected from two groundwater grab sample locations in the vicinity of the Site buildings.

The soil vapor and indoor air samples collected during January 2014 indicate that contaminants are present in both soil vapor and indoor air at low levels though above the EPA stringent screening values. However, detections of VOCs in indoor air are within USEPA's target cumulative risk range of $1x10^{-6}$ to $1x10^{-4}$ and the total HI is below RIDEM/USEPA's target HI of 1, indicating that there is no unacceptable risk/hazard associated with inhalation of indoor air within the Site buildings. Chloroform and benzene may be associated with cleaning products (e.g., bleach) and/or laboratory uses where residual concentrations are slowly desorbing from building surfaces.

5.2 Nature and Extent of PCB in Shallow Soil

The soil data collected during this Supplemental RI and the confirmatory soil data collected during the Revised On-Site IRM (Woodward-Clyde, 1995) were combined and presented in tabular and graphical format in this report (See Tables 4-3 and 4-4 and Figure 3-3). The Revised On-Site IRM (Woodward Clyde, 1996) describes four phases of excavation in the former Production Area to remediate PCB concentrations in soil that exceeded the Site MPS for PCBs with a safety factor applied (i.e., soil containing total PCBs greater than 45 mg/kg). An assumption that was made in the text of the IRM was that impacted soil in the Production Area would be capped at Site closure to prevent direct contact with potential receptors. For this reason, there are descriptions of inaccessible soil or other soil data points

that exceed 45 mg/kg but are greater than 2 ft bgs and assumed, with an additional capping mechanism, to have no pathway to a potential receptor.

PCB sampling conducted from 2012 to 2014 fully characterized the extent of the PCB impacts located at the Site. PCB impacts based on the soil samples collected and analyzed during this Supplemental RI appear to be related to spills or operational activities at Buildings 16, 19, and 17, as well as potentially with a supply line or disposal line related to Building 11 operations or possibly from soil movement post-decommissioning. These impacts are proximal to the PCB soil excavations that were conducted during the IRM. While PCB impacts had been characterized in the RFI and potential risk was mitigated with the IRM excavation and clean soil capping (Woodward-Clyde, 1996), several areas that exceed the 50 mg/kg MPS remain. The 10 mg/kg RI DEM I/CDEC for total PCBs was promulgated after the completion of the IRM activities, and there are areas within the former Production Area that contain PCBs in soil greater than 10 mg/kg. The areas with elevated PCB concentrations are illustrated by stackchart representations by depth on Figure 3-3.

5.3 Nature and Extent of Groundwater Impact

The data-driven CSM for the nature and extent of VOCs in soil and groundwater incorporates observations about Site-specific geology, hydrogeology, residual VOC presence in soil, groundwater and soil gas:

1. The geologic attributes of the CSM are as follows:
    a. The production area is underlain by predominately fine grain, low permeability, sands and silts with locally coarser deposits from glaciofluvial origin (~ 50 ft thick). See Figures 2-3 and 2-4. In the southwest quadrant of the production area there is an extensive heterogeneous aquitard that separates a shallow and a deep aquifer. In general the permeability of the deposits decrease as one moves east to west across the site as evidenced by the production rates of wells PW-110 (40 gpm) and PW-130 (20 gpm) and PW-120 (2 gpm).
    b. The shallow geology is affected by subsurface structures (e.g., foundations and pilings) left in place after plant demolition (Figure 2-1).
2. The hydrogeological attributes of the CSM are as follows:
    a. Groundwater is encountered 6 to 10 ft bgs.
    b. The water table gently slopes toward the river (Figures 2-5 and 2-6).
    c. The vertical gradient is generally downward across the site indicating that groundwater recharge conditions prevail (compare Figures 2-5 and 2-6).
    d. The natural discharge point for site-related groundwater is the Pawtuxet River, which is a gaining water body adjacent to the site, as evidenced by the fact that the river stage is lower than the groundwater elevation.
    e. The groundwater flow is affected by a bulkhead wall (sheet piling) that extends to a depth of 25 ft bgs, where groundwater is deflected downward under the wall as it migrates toward the river.
    f. Hydraulic and water quality profiling conducted along the southern property boundary and along the bulkhead abutting the Pawtuxet river indicates that the intermediate “aquitard” is heterogeneous with permeable layers containing contaminant mass, and likely providing a conduit to flow and transport of Site COCs.

3. Residual VOC mass in soil
    a. VOC mass entered the subsurface from historical releases at or near the ground surface resulting from poor housekeeping, leaky drains and sumps, etc.
    b. VOC impact is limited to the production area only (south of the rail road spur), and the former lab/office/warehouse area is free of site-related VOC impact.
    c. VOC mass capable of impacting groundwater above the MPS was detected in vadose zone soils in the southwest corner of the Building 11 footprint where the SVE system was operated (soil samples E280 and E300). The following VOCs were identified at elevated levels: 1,2 dichlorobenzene, chlorobenzene, 2-chlorotoluene, and toluene. The vadose zone impacts are identified on their respective shallow groundwater plume map and cross section for a given COC.
    d. VOC mass capable of impacting groundwater above the MPS was detected in saturated zone soils. Figures 4-1 through 4-15 show the footprint and depth range of VOC mass in aquifer material that has the potential to affect groundwater quality above the MPS.
4. Nature and extent of VOC mass in groundwater
    a. Figures 4-1 through 4-15 present the groundwater plumes for each COC in plan and cross-sectional views.
    b. The nature and extent of VOC impacts are consistent with the characterization of the hydrogeology (i.e., aquifer heterogeneity and groundwater flow) and the location of potential VOC source material (Figure 4-16 generally shows a groundwater impact halo around and downgradient from potential source material). Potential source material at former SWMU-11 is possibly within the below grade foundations/plant structures that remain on-Site and could explain why groundwater impacts are not seen closer to these soil impacts.
    c. The nature and extent of VOC impacts in the shallow aquifer (approximately 0-20 ft bgs) were refined based on the 2013/2014 sampling events. 1,2-dichlorobenzene and chlorobenzene are the driver compounds in the shallow zone.
    d. Flow and transport of COCs within the shallow aquifer exceeding MPS criteria along the southern property boundary and along the bulkhead wall is consistent with soil impacts and groundwater flow direction (see Figures 4-6 through 4-10). Locally, there are other chlorinated VOCs detected and co-located with groundwater COCs but no elevated detections of these non-COC CVOCs in soil have been noted in the Production Area.
    e. Groundwater impacts are more extensive with depth (> 20 ft) due to a combination of influences: downward flow (general recharge conditions enhanced by the bulkhead), dispersion induced by aquifer heterogeneity, and historical remedial pumping [PW-120 screen 10 to 15 ft bgs and 30 to 40 ft bgs and PW-130 screen 7 to 17 ft bgs and 28 to 38 ft bgs]).
    f. The intermediate aquifer zone (approximately 20-30+/- ft bgs) consists of heterogeneous low permeable materials with lenses of higher permeability as indicated by the Index of Conductivity (Ik) measurements obtained during hydraulic profiling. VOCs were detected in many of the intermediate zone samples collected; however, only three locations exceeded the MPS.
    g. 2-Chlorotoluene (2-CT) and chlorobenzene (CB) appear to attenuate rapidly with roughly order(s) of magnitude reductions in concentrations to below their respective MPS from the

inland portions of the Site (MW locations) to the southern property boundary and bulkhead (WPT-03 and WPT-04). 1,2-Dichlorobenzene is more recalcitrant than 2-CT and CB.

h. Other CVOCs were detected in groundwater at and downgradient of the Jet Sump area. Some of these compounds exceeded the RIDEM GB criteria. These compounds are unique to this area and are collocated with one or more of the five Site COCs with MPS objectives in Site groundwater. While these other CVOCs (PCE, TCE, VC) were detected in groundwater, soil data from approximately 19-24 ft bgs collected at five locations (SB-132 through SB-137, shown on Figure 3-2) show non-detectable levels of these CVOC compounds (Table 4-3).

i. Site COCs were detected in groundwater on the river side of the bulkhead. These include 1,2-dichlorobenzene and chlorobenzene above the MPS and benzene, tetrachloroethene, and vinyl chloride above the RI DEM GB groundwater objectives. Thus, a completed exposure pathway is apparent.

5. Nature and Extent of PCB Impacts

   a. PCBs were detected in 5 of the 11 monitoring wells sampled at the Site. PCBs were not detected on the downgradient side of the bulkhead. Aroclors 1221, 1242, and 1252 were detected; 1221 and 1242 were detected in interior portions of the Site, 1252 was detected in MW-21S.

   b. PCBs exceeded the maximum contaminant level (MCL) of 0.5 ug/L in 2 samples from one location (MP-3I – 9ug/L, MP-3S – 14.1 ug/L). These wells were installed in 2011, and these detects may represent carry-down during well installation. Since the Site is in a GB aquifer and is not used for drinking water, these concentrations do not warrant remedial action. PCBs, where detected, were found in the shallow aquifer except in well MW-34D, which did not exceed the MCL. The presence of PCBs is likely attributed to co-solvents 1,2-dichlorobenzene, chlorobenzene, and 2-chlorotoluene. In situ groundwater treatment of the COCs will address presence of PCB at MP-3 well cluster.

6. Vapor Intrusion characterization

   a. In the former office/laboratory, warehouse and parking area (Figure 1-2) groundwater and soil are not impacted with site-related VOCs. While there were detections of potentially site-related VOCs in building indoor air, the levels are within EPA's acceptable risk range.

   b. In the Production Area (Figure 1-2), residual soil and groundwater VOC impacts render vapor intrusion a potential ongoing concern if occupied buildings are constructed in the future without some form of vapor intrusion mitigation control. However, due to riparian buffer setback requirements (200 ft setback from the Pawtuxet River), occupied building construction is unlikely.

In summary, there are residual VOC impacts primarily associated with Building 11 and 16 areas. Building 11 impacts are 2-chlorotoluene and toluene in the vadose zone which are local residuals from the SVE operation. Building 16 is the source for most of the residual impacts in deep groundwater (primarily chlorobenzene and 1,2-dichlorobenzene). The release in this area was responsible for the COCs which are uniquely found here. VOCs that were not identified as COCs in the RFI have been found at elevated concentrations in groundwater but not in soil on-Site. This suggests that they could be migrating from off-Site in groundwater and co-mingling with the former Production Area groundwater impacts. These compounds are collocated and there is a plume discharging into river sediments that will be the subject of a CMS.

5.4 Remaining Gaps and Areas Requiring Further Delineation

Data gaps that were identified after completion of the Draft SRI Report (AECOM 2012) were addressed with additional soil and groundwater characterization activities performed in 2013. The 2013 and 2014 additional characterization results were incorporated into the tables, figures, and text of this Final SRI Report. There are four pre-design investigation borings proposed to fully delineate the impacts from the two soil VOC borings in the Building 11 area (E280 and E300). There are no further data gaps related to nature and extent of impacts at the Site.

6.0 Next Steps and Schedule

A Corrective Measures Study (CMS), using the data from this Supplemental RI, is being developed concurrently with the submittal of this report. The CMS will be conducted to evaluate remedial alternatives of areas with VOCs exceeding MPS in groundwater and PCBs exceeding MPS and RIDEM I/C DEC in shallow soil.

Other VOCs detected in groundwater are co-located with the groundwater COCs and the selected remedial alternative for groundwater will be capable of reducing concentrations of these compounds. Other compounds detected in soil include PAHs in isolated locations that exceed RIDEM I/C DEC in the northern former parking lots will be incorporated into the CMS.

Remedial approaches for groundwater will have the goal of preventing migration of groundwater with COCs exceeding MPS, or containing other VOCs, to the river. Remedial approaches for soil will have the goal of eliminating the exposure pathways for COCs, primarily PCBs, in soil to trespassers, future potential park users, future industrial/commercial workers, and/or construction/utility workers digging on-site. Remedial approaches will need to incorporate regulatory considerations related to wetlands and watercourses, as well as the presence of a floodplain at the Site.

The following remedial approaches will be evaluated for soil:

1. No action
2. Excavation of shallow soil impacted with COCs above MPS and RIDEM I/C DEC.
3. Construction of a soil cap.

Data support the conclusion that groundwater containing COCs with MPS exceedances and some other co-located elevated CVOCs, is migrating to the river in a narrow discharge area at the southern portion of the former Production Area. Additional VOCs exceeding RI DEM groundwater criteria will be remediated with the Site COCs. The following approaches will be evaluated:

1. No action.
2. Institutional controls.
3. Monitored natural attenuation.
4. Continued operation of the existing extraction wells.
5. In situ groundwater remediation using bioremediation.
6. In situ groundwater remediation using chemical oxidation.
7. Establishment of a permeable reactive barrier upgradient of the river/bulkhead along a targeted portion of the VOC plume at the bulkhead.

The anticipated schedule for conducting these activities is:

- Complete CMS and submit to EPA (June 2014)
- Select a remedial alternative (July 2014)

- Design and permitting/approvals/public notice for remedial action (Summer/Fall 2014)
- Implement remedial action (2015)
- Site Closure (Late 2015)

The schedule is dependent on regulatory reviews and approvals.

7.0 References

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Tables

Table 4-1 - Groundwater Elevation Data
Former CIBA-GEIGY Facilty
180 Mill Street, Cranston RI

AECOM

Sampling location ID	Northing (1)	Easting (1)	Elevation (1)			GW gauging information							Data elevation and location source	Data collection date	GW elevation
			Top of Casing	Top of Inside Pipe	Ground	DTW (2)	DTB (2)	Screen length (3)	Screen interval detph (3)	Well Diameter (in)	Comments	Measuring point			6/12/2012
MW-4D	249046.28	352085.59	19.79	19.67	17.35	9.47	44.42	10	38-48	4	Soft bottom	Inside pipe	DiPrete Engineering	6/12/2012	10.20
MW-4S	249046.19	352078.31	21.31	20.70	17.79	10.42	20.67	10	6-16	4		Inside pipe	DiPrete Engineering	6/12/2012	10.28
MW-14D	249025.97	351990.68	20.74	20.51	18.28	10.12	51.21	10	37-47	4		Inside pipe	DiPrete Engineering	6/12/2012	10.39
MW-34S	248895.17	352061.44	18.20	18.02	15.51	8.27	20.40	10	9.5-19.5	4		Inside pipe	DiPrete Engineering	6/12/2012	9.75
MW-34D	248893.89	352066.69	18.55	18.16	15.70	9.17	48.40	10	38-48	4		Inside pipe	DiPrete Engineering	6/12/2012	8.99
MW-102S	248833.65	352060.36	16.97	16.85	14.88	7.60	15.93	10	5-15	2		Inside pipe	DiPrete Engineering	6/12/2012	9.25
MW-102D	248831.97	352054.80	17.28	17.09	15.14	8.52	25.40	5	20-25	2		Inside pipe	DiPrete Engineering	6/12/2012	8.57
P-36S	248841.10	352192.74	15.23	15.01	12.63	7.85	17.71	5	10.59-15.59	2	Transducer in well	Inside pipe	DiPrete Engineering	6/12/2012	7.16
P30-D	248872.66	352233.98	16.14	15.57	n/a	8.81	49.9	3	35-38	1	In river; Replacement for MW-30D	Inside pipe	DiPrete Engineering	6/12/2012	6.76
MW-1D	248892.46	352204.07	15.55	15.40	13.23	8.04	52.55	10	38-48	4		Inside pipe	DiPrete Engineering	6/12/2012	7.36
MW-1S	248890.04	352209.46	15.76	14.65	12.88	9.75	17.51	10	3-13	4		Inside pipe	DiPrete Engineering	6/12/2012	4.90
MW-29D	248893.43	352266.22	15.60	15.44	n/a	9.75	44.55	10	34-44	2	In river	Inside pipe	DiPrete Engineering	6/12/2012	5.69
P-37S	248909.52	352250.92	14.82	14.63	12.67	7.15	17.51	5	9.71-14.71	2		Inside pipe	DiPrete Engineering	6/12/2012	7.48
MW-13S	249006.79	352224.10	17.79	17.55	15.08	8.45	18.37	10	4.75-14.75	4	Soft bottom	Inside pipe	DiPrete Engineering	6/12/2012	9.10
P-13D	249004.07	352217.92	17.92	17.97	15.24	8.87	40.02	3	35-38	1	Inside pipe higher than casing	Inside pipe	DiPrete Engineering	6/12/2012	9.10
P-38S	248953.74	352304.29	14.91	14.75	12.48	7.15	17.98	5	10.73-15.73	2		Inside pipe	DiPrete Engineering	6/12/2012	7.60
MW-12D	249122.43	352149.05	21.02	20.34	18.79	9.90	47.63	10	33.5-43.5	4	No lock	Inside pipe	DiPrete Engineering	6/12/2012	10.44
MW-12S	249127.85	352147.17	22.28	21.66	18.93	11.35	20.79	10	6-16	4		Inside pipe	DiPrete Engineering	6/12/2012	10.31
MW-10S	249171.35	352085.90	22.89	21.74	19.75	12.32	23.63	10	8-18	4	Transducer in well; ground = concrete	Casing	DiPrete Engineering	6/12/2012	10.57
MW-10D	249172.08	352089.52	22.93	20.74	19.77	12.32	49.68	10	33.5-43.5	4	Transducer in well; ground = concrete	Casing	DiPrete Engineering	6/12/2012	10.61
PW-110	248915.84	352240.39	15.22	15.68	13.63	7.99	23.61	15	15-30	6	Pump in well; Inside pipe higher than casing	Inside pipe	DiPrete Engineering	6/12/2012	7.69
PW-130	248820.01	352161.83	15.27	15.73	13.74	8.46	40.76	10	7-17; 28-38	6	Pump in well	Inside pipe	DiPrete Engineering	6/12/2012	7.27
MW-31D	248771.88	352170.89	15.59	15.32	n/a	8.57	45.33	10	36-46	2	Soft bottom; in river	Inside pipe	DiPrete Engineering	6/12/2012	6.75
PW-120	248755.29	352110.93	14.24	15.14	13.05	7.47	35.20	5; 10	10-15; 30-40	6	Pump in well; Inside pipe higher than casing	Inside pipe	DiPrete Engineering	6/12/2012	7.67
MW-21S	248874.04	351973.60	15.12	14.70	14.90	5.10	10.44	10	6-16	4	Broken road box, no plug	Inside pipe	DiPrete Engineering	6/12/2012	9.60
MW-100S	248734.17	352054.14	15.26	15.09	12.86	6.35	15.00	10	5-15	2	Soft bottom; ground - concrete	Inside pipe	DiPrete Engineering	6/12/2012	8.74
MW-100D	248731.04	352051.50	15.05	14.84	12.85	6.92	24.70	5	20-25	2	Ground = concrete	Inside pipe	DiPrete Engineering	6/12/2012	7.92
MW-101S	248749.48	352020.51	16.00	15.82	13.59	6.89	15.83	10	5-15	2	Ground = concrete	Inside pipe	DiPrete Engineering	6/12/2012	8.93
MW-101D	248757.01	352019.50	15.77	15.61	13.55	7.35	24.80	5	20-25	2		Inside pipe	DiPrete Engineering	6/12/2012	8.26
MW-22S	248732.50	351992.51	16.63	16.04	13.29	7.30	20.30	10	5-15	4	Poison ivy	Inside pipe	DiPrete Engineering	6/12/2012	8.74
MW-2S	248738.82	352123.11	15.00	13.69	11.71	7.62	18.75	10	8-18	4		Casing	DiPrete Engineering	6/12/2012	7.38
P-35S	248786.65	352155.59	14.75	14.45	12.29	7.37	17.25	5	9.98-14.98	2	Labeled MW-102B	Inside pipe	DiPrete Engineering	6/12/2012	7.08
MW-20S	249162.25	351972.17	21.62	21.09	18.18	10.31	20.69	10	6-16	4		Inside pipe	DiPrete Engineering	6/12/2012	10.78

Notes:

1 Data collected by DiPrete Engineering on June 12, 2012
Horizontal Datum: RI STATE PLANE (NAD-83), US SURVEY FEET
Vertical Datum: NAVD'88, US SURVEY FEET
2 Relative depth from measuring point.
3 Relative depth from ground surface.

Table 4-2 Groundwater Analytical Data
Former Ciba-Geigy Facility
180 Mill Street, Cranston, RI
June 2012

AECOM

			lab_sdg		Media	1206229	1206239	1206229	1206229	1206229	1206229	1206229	1206229	1206229	1206229	1206229	1206239	1206239	1206239	1206239	1206239	1206239
			sys_loc_code	% Solubility	Protection	GW1	GW1	GW2	GW2	GW3	GW3	GW4	GW4	GW4	GW5	GW5	GW6	GW6	GW7	GW7	GW8	GW8
			sys_sample_code		Standards	W1 26-28 061312	W1 31-33 061412	GW2 26-28 061312-	GW2 31-33 061312-	GW3 26-28 061312-	GW3 31-33 061312-	GW4 26-28 061312-	GW4 26-28 061312-	GW4 31-33 061312-	GW5 23-27 061312-	GW5 30-32 061312-	W6 19-21 061412	GW6 24-26 061412-	W7 19-21 061412	W7 24-26 061412	W8 19-21 061412	GW8 24-26 061412-
			sample_date			6/13/2012	6/14/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/14/2012	6/14/2012	6/14/2012	6/14/2012	6/14/2012	6/14/2012
analytic_method	cas_rn	chemical_name	report_result_unit																			
SW8260B	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-34-5	1,1,2,2-TETRACHLOROETHANE	mg/l	NA	NA	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
SW8260B	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-00-5	1,1,2-TRICHLOROETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-34-3	1,1-DICHLOROETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0024	< 0.0010 U
SW8260B	75-35-4	1,1-DICHLOROETHENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	87-61-6	1,2,3-TRICHLOROBENZENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	120-82-1	1,2,4-TRICHLOROBENZENE	mg/l	NA	NA	0.0021	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	mg/l	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	106-93-4	1,2-DIBROMOETHANE (EDB)	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**95-50-1**	**1,2-DICHLOROBENZENE**	**mg/l**	**1.37**	**0.094**	**0.756 D**	**0.407 D**	< 0.0010 U	0.0082	0.0019	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	**0.146 D**	0.0292	0.0149	0.0035	0.0979	0.0014
SW8260B	107-06-2	1,2-DICHLOROETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0024	0.0061	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	78-87-5	1,2-DICHLOROPROPANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	541-73-1	1,3-DICHLOROBENZENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	106-46-7	1,4-DICHLOROBENZENE	mg/l	NA	NA	0.0061	0.0022	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0053	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	123-91-1	1,4-Dioxane	mg/l	NA	NA	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
SW8260B	78-93-3	2-BUTANONE (MEK)	mg/l	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	**95-49-8**	**2-CHLOROTOLUENE**	**mg/l**	NA	**1.5**	0.0034	< 0.0010 U	< 0.0010 U	0.0121	0.125	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.288 D	< 0.0010 U	**8.92 D**	0.198 D	1.23 D	0.0082
SW8260B	591-78-6	2-HEXANONE	mg/l	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	108-10-1	4-METHYL-2-PENTANONE (MIBK)	mg/l	NA	NA	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U
SW8260B	67-64-1	ACETONE	mg/l	NA	NA	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	71-43-2	BENZENE	mg/l	NA	NA	0.0062	< 0.0010 U	< 0.0010 U	0.0021	0.0065	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0253	0.600 D	0.411 D	0.870 D	0.0318
SW8260B	75-27-4	BROMODICHLOROMETHANE	mg/l	NA	NA	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	75-25-2	BROMOFORM	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-83-9	BROMOMETHANE	mg/l	NA	NA	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	75-15-0	CARBON DISULFIDE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0021	0.0012	0.0014	0.0010	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	56-23-5	CARBON TETRACHLORIDE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-90-7**	**CHLOROBENZENE**	**mg/l**	**4.66**	**1.7**	0.162 D	0.0300	0.0043	0.0435	0.0117	0.0037	0.0370	0.0377	0.0141	< 0.0010 U	0.0027	**2.58 D**	1.56 D	**6.37 D**	**2.53 D**	**9.93 D**	0.0067
SW8260B	74-97-5	CHLOROBROMOMETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-00-3	CHLOROETHANE	mg/l	NA	NA	0.0032	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	67-66-3	CHLOROFORM	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-87-3	CHLOROMETHANE	mg/l	NA	NA	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	156-59-2	CIS-1,2-DICHLOROETHENE	mg/l	NA	NA	0.0028	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0011	< 0.0010 U	0.0012	< 0.0010 U
SW8260B	10061-01-5	CIS-1,3-DICHLOROPROPENE	mg/l	NA	NA	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	110-82-7	CYCLOHEXANE	mg/l	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	124-48-1	DIBROMOCHLOROMETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-71-8	DICHLORODIFLUOROMETHANE	mg/l	NA	NA	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	100-41-4	ETHYLBENZENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0012	< 0.0010 U	0.113 D	0.0563	0.209 D	< 0.0010 U
SW8260B	98-82-8	ISOPROPYLBENZENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0019	< 0.0010 U	0.0012	< 0.0010 U
SW8260B	79-20-9	METHYL ACETATE	mg/l	NA	NA	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	1634-04-4	METHYL TERT-BUTYL ETHER	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	108-87-2	METHYLCYCLOHEXANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0034	< 0.0010 U	< 0.0010 U	0.0016
SW8260B	75-09-2	METHYLENE CHLORIDE	mg/l	NA	NA	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	**MPXYLENE**	**m-Xylene & p-Xylene**	**mg/l**	**1.35**	**0.078***	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	0.311 D	0.0878	0.347 D	< 0.0020 U
SW8260B	**95-47-6**	**O-XYLENE**	**mg/l**	**1.35**	**0.078***	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0040	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0088	< 0.0010 U	0.120 D	0.0548	0.190 D	0.0019
SW8260B	100-42-5	STYRENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	127-18-4	TETRACHLOROETHENE (PCE)	mg/l	NA	NA	0.300 D	0.173 D	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0389	0.0086	0.0014	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-88-3**	**TOLUENE**	**mg/l**	**5.3**	**1.7**	0.0106	0.0018	< 0.0010 U	0.0021	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0016	< 0.0010 U	**4.45 D**	1.47 D	**3.53 D**	0.0050
SW8260B	156-60-5	TRANS-1,2-DICHLOROETHENE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-02-6	TRANS-1,3-DICHLOROPROPENE	mg/l	NA	NA	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	79-01-6	TRICHLOROETHYLENE	mg/l	NA	NA	0.0049	0.0017	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-69-4	TRICHLOROFLUOROMETHANE	mg/l	NA	NA	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-01-4	VINYL CHLORIDE	mg/l	NA	NA	< 0.0010 U	0.0497	0.0383	0.0027	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0057	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U

Table 4-2 Groundwater Analytical Data
Former Ciba-Geigy Facility
180 Mill Street, Cranston, RI
June 2012

AECOM

			lab_sdg	1206239	1206239	1206239	1206239	1206197	1206197	1206197	1206197	1206197	1206197	1206197	1206197	**1206197**	**1206197**	1206197	1206197	1206197	1206230
			sys_loc_code	GW9	GW9	GW10	GW10	MW-004D	MW-004S	MW-010D	MW-010S	MW-012D	MW-012S	MW-020S	MW-034D	**MW-034S**	**MW-102D**	MW-102S	MW-102S	MW-14D	MW-001D
			sys_sample_code	SW9 19-21 061412-	SW9 24-26 061412-	W10 19-21 061412-	W10 24-26 061412-	MW-4D 061212-1	MW-4S 061212-1	MW-10D 061212-1	MW-10S 061212-1	MW-12D 061212-1	MW-12S 061212-1	MW-20S 061212-1	MW-34D 061212-1	**MW-34S 061212-1**	**MW-102D 061212-**	MW-102S 061212-1	MW-102S 061212-2	MW-14D 061212-1	MW-1D-061312-1
			sample_date	6/14/2012	6/14/2012	6/14/2012	6/14/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	6/12/2012	**6/12/2012**	**6/12/2012**	6/12/2012	6/12/2012	6/12/2012	6/13/2012
analytic_method	cas_rn	chemical_name	report_result_unit																		
SW8260B	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-34-5	1,1,2,2-TETRACHLOROETHANE	mg/l	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
SW8260B	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-00-5	1,1,2-TRICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-34-3	1,1-DICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0016	0.0015	< 0.0010 U	< 0.0010 U
SW8260B	75-35-4	1,1-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	87-61-6	1,2,3-TRICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	120-82-1	1,2,4-TRICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0063	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	106-93-4	1,2-DIBROMOETHANE (EDB)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**95-50-1**	**1,2-DICHLOROBENZENE**	**mg/l**	0.0037	< 0.0010 U	< 0.0010 U	0.0022	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0049	0.0639	0.0051	0.0050	< 0.0010 U	< 0.0010 U
SW8260B	107-06-2	1,2-DICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	78-87-5	1,2-DICHLOROPROPANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	541-73-1	1,3-DICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0027	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	106-46-7	1,4-DICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0090	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	123-91-1	1,4-Dioxane	mg/l	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
SW8260B	78-93-3	2-BUTANONE (MEK)	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	**95-49-8**	**2-CHLOROTOLUENE**	**mg/l**	0.0579	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0050	0.915 D	**48.4 D**	0.160 D	0.152 D	< 0.0010 U	< 0.0010 U
SW8260B	591-78-6	2-HEXANONE	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	108-10-1	4-METHYL-2-PENTANONE (MIBK)	mg/l	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U
SW8260B	67-64-1	ACETONE	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	71-43-2	BENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0033	0.0259	0.0017	0.0017	< 0.0010 U	< 0.0010 U
SW8260B	75-27-4	BROMODICHLOROMETHANE	mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	75-25-2	BROMOFORM	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-83-9	BROMOMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	75-15-0	CARBON DISULFIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0011	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	56-23-5	CARBON TETRACHLORIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-90-7**	**CHLOROBENZENE**	**mg/l**	0.0035	0.0013	0.0011	0.0012	< 0.0010 U	0.0012	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.138 D	**5.48 D**	1.02 D	1.10 D	< 0.0010 U	< 0.0010 U
SW8260B	74-97-5	CHLOROBROMOMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-00-3	CHLOROETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	67-66-3	CHLOROFORM	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-87-3	CHLOROMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	156-59-2	CIS-1,2-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-01-5	CIS-1,3-DICHLOROPROPENE	mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	110-82-7	CYCLOHEXANE	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	124-48-1	DIBROMOCHLOROMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-71-8	DICHLORODIFLUOROMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	100-41-4	ETHYLBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.280 E	0.0019	0.0018	< 0.0010 U	< 0.0010 U
SW8260B	98-82-8	ISOPROPYLBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0034	0.0011	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-20-9	METHYL ACETATE	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	1634-04-4	METHYL TERT-BUTYL ETHER	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	108-87-2	METHYLCYCLOHEXANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0092	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-09-2	METHYLENE CHLORIDE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	**MPXYLENE**	**m-Xylene & p-Xylene**	**mg/l**	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	**0.820 E**	0.0021	0.0021	< 0.0020 U	< 0.0020 U
SW8260B	**95-47-6**	**O-XYLENE**	**mg/l**	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	**0.145 D**	**0.253 E**	0.0275	0.0263	< 0.0010 U	< 0.0010 U
SW8260B	100-42-5	STYRENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	127-18-4	TETRACHLOROETHENE (PCE)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0025	< 0.0010 U	0.0014	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0126	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-88-3**	**TOLUENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0023	< 0.0010 U	**15.4 D**	0.0022	0.0021	< 0.0010 U	< 0.0010 U
SW8260B	156-60-5	TRANS-1,2-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-02-6	TRANS-1,3-DICHLOROPROPENE	mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	79-01-6	TRICHLOROETHYLENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-69-4	TRICHLOROFLUOROMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-01-4	VINYL CHLORIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U

Table 4-2 Groundwater Analytical Data
Former Ciba-Geigy Facility
180 Mill Street, Cranston, RI
June 2012

AECOM

			lab_sdg	1206230	1206230	1206230	1206230	**1206230**	1206230	1206230	1206230	1206230	1206230	1206230	1206230	1206238	1206238	1206238	**1206238**	1206238	**1206238**	1206238
			sys_loc_code	MW-001S	MW-002S	MW-029D	MW-031D	**P-035S**	P-036S	P-037S	P-038S	PW-110	PW-120	PW-130	PW-130	MW-013S	MW-021S	MW-022S	**MW-100D**	MW-100S	**MW-101D**	MW-101S
			sys_sample_code	MW-1S-061312-1	MW-2S-061312-1	MW-29D-061312-1	MW-31D-061312-1	**P-35S-061312-1**	P-36S-061312-1	P-37S-061312-1	P-38S-061312-1	PW-110-061312-1	PW-120-061312-1	PW-130-061312-1	PW-130-061312-2	MW-13S-061412-1	MW-215-061412-1	MW-22S-061412-1	**W-100D-061412**	MW-100S-061412-	**W-101D-061412**	MW-101S-061412-
			sample_date	6/13/2012	6/13/2012	6/13/2012	6/13/2012	**6/13/2012**	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/13/2012	6/14/2012	6/14/2012	6/14/2012	**6/14/2012**	6/14/2012	**6/14/2012**	6/14/2012
analytic_method	cas_rn	chemical_name	report_result_unit																			
SW8260B	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-34-5	1,1,2,2-TETRACHLOROETHANE	mg/l	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
SW8260B	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-00-5	1,1,2-TRICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-34-3	1,1-DICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0018	< 0.0010 U	0.0014	< 0.0010 U
SW8260B	75-35-4	1,1-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	87-61-6	1,2,3-TRICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	120-82-1	1,2,4-TRICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	106-93-4	1,2-DIBROMOETHANE (EDB)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**95-50-1**	**1,2-DICHLOROBENZENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0125	0.0215	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0781	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0094	0.0212
SW8260B	107-06-2	1,2-DICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	78-87-5	1,2-DICHLOROPROPANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	541-73-1	1,3-DICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	106-46-7	1,4-DICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0017	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0016	< 0.0010 U
SW8260B	123-91-1	1,4-Dioxane	mg/l	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
SW8260B	78-93-3	2-BUTANONE (MEK)	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	**95-49-8**	**2-CHLOROTOLUENE**	**mg/l**	0.0062	< 0.0010 U	< 0.0010 U	0.0429	0.111 D	0.0030	0.0170	< 0.0010 U	0.0026	0.0056	0.0015	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0578	< 0.0010 U	0.421 D	0.0178
SW8260B	591-78-6	2-HEXANONE	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	108-10-1	4-METHYL-2-PENTANONE (MIBK)	mg/l	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U
SW8260B	67-64-1	ACETONE	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	71-43-2	BENZENE	mg/l	0.0044	0.0049	< 0.0010 U	0.0104	0.454 D	0.0034	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0102	0.0029	0.0027	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0050	< 0.0010 U	0.0026	0.0010
SW8260B	75-27-4	BROMODICHLOROMETHANE	mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	75-25-2	BROMOFORM	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-83-9	BROMOMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	75-15-0	CARBON DISULFIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0027	0.0018	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	56-23-5	CARBON TETRACHLORIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-90-7**	**CHLOROBENZENE**	**mg/l**	0.785 D	0.137 D	< 0.0010 U	0.0925	**7.16 D**	0.123 D	0.0027	< 0.0010 U	0.0012	0.296 D	0.133 D	0.134 D	< 0.0010 U	< 0.0010 U	< 0.0010 U	**1.76 D**	0.0596	**7.93 D**	1.36 D
SW8260B	74-97-5	CHLOROBROMOMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-00-3	CHLOROETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	67-66-3	CHLOROFORM	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-87-3	CHLOROMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	156-59-2	CIS-1,2-DICHLOROETHENE	mg/l	< 0.0010 U	0.0037	< 0.0010 U	< 0.0010 U	0.0026	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0170	0.0012	0.0012	< 0.0010 U	< 0.0010 U	0.0036	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-01-5	CIS-1,3-DICHLOROPROPENE	mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	110-82-7	CYCLOHEXANE	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	124-48-1	DIBROMOCHLOROMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-71-8	DICHLORODIFLUOROMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	100-41-4	ETHYLBENZENE	mg/l	0.0025	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0032	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0017	< 0.0010 U
SW8260B	98-82-8	ISOPROPYLBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0032	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-20-9	METHYL ACETATE	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	1634-04-4	METHYL TERT-BUTYL ETHER	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	108-87-2	METHYLCYCLOHEXANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0011	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-09-2	METHYLENE CHLORIDE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	**MPXYLENE**	**m-Xylene & p-Xylene**	**mg/l**	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	0.0030	< 0.0020 U
SW8260B	**95-47-6**	**O-XYLENE**	**mg/l**	0.0010	< 0.0010 U	< 0.0010 U	0.0043	0.0300	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0048	< 0.0010 U	0.0053	0.0016
SW8260B	100-42-5	STYRENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	127-18-4	TETRACHLOROETHENE (PCE)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0014	< 0.0010 U	0.0037	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-88-3**	**TOLUENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0015	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0017	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0024	< 0.0010 U
SW8260B	156-60-5	TRANS-1,2-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-02-6	TRANS-1,3-DICHLOROPROPENE	mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	79-01-6	TRICHLOROETHYLENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0017	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-69-4	TRICHLOROFLUOROMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-01-4	VINYL CHLORIDE	mg/l	< 0.0010 U	0.0026	< 0.0010 U	0.0033	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0084	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U

Table 4-2 Groundwater Analytical Data
Former Ciba-Geigy Facility
180 Mill Street, Cranston, RI
June 2012

AECOM

			lab_sdg	1206238	1206238	1206279	1206197	1206197	1206230	1206238	1206230
			sys_loc_code	P-013D	P-030D						
			sys_sample_code	P-13D-061412-1	P-30D-061412-1	EB-061512-3	EB 061212-3	RIP BLANK_061220	EB-061312-3	TB-061412-3	TB-061312-3
			sample_date	6/14/2012	6/14/2012	6/15/2012	6/12/2012	6/12/2012	6/13/2012	6/14/2012	6/13/2012
analytic_method	cas_rn	chemical_name	report_result_unit								
SW8260B	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-34-5	1,1,2,2-TETRACHLOROETHANE	mg/l	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
SW8260B	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-00-5	1,1,2-TRICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-34-3	1,1-DICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-35-4	1,1-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	87-61-6	1,2,3-TRICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	120-82-1	1,2,4-TRICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	106-93-4	1,2-DIBROMOETHANE (EDB)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**95-50-1**	**1,2-DICHLOROBENZENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	107-06-2	1,2-DICHLOROETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	78-87-5	1,2-DICHLOROPROPANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	541-73-1	1,3-DICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	106-46-7	1,4-DICHLOROBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	123-91-1	1,4-Dioxane	mg/l	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
SW8260B	78-93-3	2-BUTANONE (MEK)	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	**95-49-8**	**2-CHLOROTOLUENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	591-78-6	2-HEXANONE	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	108-10-1	4-METHYL-2-PENTANONE (MIBK)	mg/l	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U
SW8260B	67-64-1	ACETONE	mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	71-43-2	BENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-27-4	BROMODICHLOROMETHANE	mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	75-25-2	BROMOFORM	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-83-9	BROMOMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	75-15-0	CARBON DISULFIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	56-23-5	CARBON TETRACHLORIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-90-7**	**CHLOROBENZENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-97-5	CHLOROBROMOMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-00-3	CHLOROETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	67-66-3	CHLOROFORM	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	74-87-3	CHLOROMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	156-59-2	CIS-1,2-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-01-5	CIS-1,3-DICHLOROPROPENE	mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	110-82-7	CYCLOHEXANE	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	124-48-1	DIBROMOCHLOROMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-71-8	DICHLORODIFLUOROMETHANE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	100-41-4	ETHYLBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	98-82-8	ISOPROPYLBENZENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	79-20-9	METHYL ACETATE	mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	1634-04-4	METHYL TERT-BUTYL ETHER	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	108-87-2	METHYLCYCLOHEXANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-09-2	METHYLENE CHLORIDE	mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	**MPXYLENE**	**m-Xylene & p-Xylene**	**mg/l**	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	**95-47-6**	**O-XYLENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	100-42-5	STYRENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	127-18-4	TETRACHLOROETHENE (PCE)	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	**108-88-3**	**TOLUENE**	**mg/l**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	156-60-5	TRANS-1,2-DICHLOROETHENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	10061-02-6	TRANS-1,3-DICHLOROPROPENE	mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	79-01-6	TRICHLOROETHYLENE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-69-4	TRICHLOROFLUOROMETHANE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	75-01-4	VINYL CHLORIDE	mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U

Table 4-3 Soil Analytical Results
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

			Location	MP-1D	MP-1D	MP-3D	MW-100D	MW-100D	MW-101D	MW-102D	SB101	SB101	SB102	SB102	SB103	SB103	SB104	SB104	SB105	SB105	SB106	SB106	SB107	SB107	SB108	SB108	SB109	SB109	SB109	SB110	SB110	SB111	SB111	SB112	SB112
			Date	5/23/2011	5/23/2011	5/19/2011	5/18/2011	5/18/2011	6/15/2011	6/15/2011	6/12/2012	7/26/2012	6/15/2012	7/26/2012	6/15/2012	7/27/2012	6/15/2012	7/27/2012	6/15/2012	7/26/2012	6/12/2012	7/25/2012	6/15/2012	7/24/2012	6/15/2012	7/23/2012	6/12/2012	6/12/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012
			sample_type_code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
			Start_depth	8	12	12	11	15	11	9	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	0	4	0	4	0	4	0	4
			End_depth	10	13	14	13	15	13	11	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	2	6	2	6	2	6	2	6
Analytical method	**Chemical Name**	**RI Ind/Comm**	**Unit**																																
SW6010	ARSENIC	**7.0**	mg/kg	NA	NA	NA	NA	NA	NA	NA	6.0	NA	6.6	NA	< 2.4 U	NA	3.2	NA	2.2	NA	4.6	NA	2.8	NA	2.6	NA	< 2.5 U	2.3	NA	2.9	NA	3.1	NA	3.2	NA
SW6010	CADMIUM	**1,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.53 U	NA	< 0.49 U	NA	< 0.48 U	NA	< 0.53 U	NA	< 0.41 U	NA	< 0.52 U	NA	< 0.50 U	NA	< 0.47 U	NA	< 0.51 U	< 0.46 U	NA	< 0.45 U	NA	< 0.42 U	NA	< 0.44 U	NA
SW6010	COPPER	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	15.5	NA	13.5	NA	8.6	NA	10.1	NA	5.6	NA	8.3	NA	10.5	NA	45.3	NA	4.1	4.3	NA	10.4	NA	17.2	NA	10.9	NA
SW6010	MANGANESE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	309	NA	148	NA	88.9	NA	187	NA	104	NA	179	NA	135	NA	106	NA	109	97.2	NA	126	NA	124	NA	146	NA
SW6010	NICKEL	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	12.1	NA	9.2	NA	3.3	NA	6.9	NA	3.5	NA	5.3	NA	6.4	NA	3.4	NA	4.2	3.5	NA	5.1	NA	5.0	NA	4.9	NA
SW6010	VANADIUM	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	13.4	NA	10.9	NA	7.0	NA	9.9	NA	8.2	NA	10.0	NA	7.9	NA	5.7	NA	4.9	4.1	NA	9.2	NA	9.1	NA	8.7	NA
SW6010	ZINC	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	64.0	NA	411	NA	43.0	NA	283	NA	59.1	NA	31.1	NA	257	NA	51.5	NA	38.3	34.9	NA	166	NA	305	NA	121	NA
SW7471	MERCURY	**610**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.074	NA	0.248	NA	0.230	NA	0.185	NA	11.0	NA	0.054	NA	0.261	NA	0.313	NA	< 0.033 U	< 0.032 U	NA	0.250	NA	0.321	NA	0.175	NA
SW8081	1,1,1-TRICHLORO-2,2-BIS (P-METHOXPHENYL)-ETHANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0074	NA	0.0246	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	0.0081	NA	0.0237	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	4,4-DDD	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	4,4-DDE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	0.0048	0.0039	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	4,4-DDT	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	0.0081	0.0068	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	ALDRIN	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	ALPHA-BHC	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	ALPHA-CHLORDANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	0.0043	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	BETA-BHC	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	0.0041	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	CAMPHECHLOR	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.143 U	NA	< 0.138 U	NA	< 0.130 U	NA	< 0.132 U	NA	< 0.130 U	NA	< 0.145 U	NA	< 0.133 U	NA	< 0.136 U	NA	< 0.132 U	< 0.135 U	NA	< 0.133 U	NA	< 0.135 U	NA	< 0.137 U	NA
SW8081	CHLORDANE	**4.4**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0343 U	NA	< 0.0332 U	NA	< 0.0312 U	NA	< 0.0318 U	NA	< 0.0313 U	NA	< 0.0347 U	NA	< 0.0318 U	NA	< 0.0325 U	NA	< 0.0316 U	< 0.0324 U	NA	< 0.0320 U	NA	< 0.0324 U	NA	< 0.0329 U	NA
SW8081	DELTA-BHC	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	DIELDRIN	**0.4**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	ENDOSULFAN I	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	0.0135	NA	0.0085	NA	0.0173	NA	0.0052	NA	0.0029	NA	0.0055	NA	0.0079	NA	< 0.0026 U	< 0.0027 U	NA	0.0315	NA	0.0291	NA	0.0213	NA
SW8081	ENDOSULFAN II	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	0.0264	NA	0.0142	NA	0.0416	NA	0.0115	NA	0.0054	NA	0.0124	NA	0.0115	NA	< 0.0026 U	< 0.0027 U	NA	0.0523	NA	0.0567	NA	0.0586	NA
SW8081	ENDOSULFAN SULFATE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	0.0066	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	0.0091	NA	< 0.0026 U	< 0.0027 U	NA	0.0033	NA	0.0032	NA	0.0045	NA
SW8081	ENDRIN	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	0.0133	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	ENDRIN ALDEHYDE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	0.0183	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	0.0045	NA	< 0.0026 U	< 0.0027 U	NA	0.0133	NA	0.0231	NA	< 0.0027 U	NA
SW8081	ENDRIN KETONE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	0.0194	NA	0.0759	NA	0.0141	NA	0.0053	NA	< 0.0029 U	NA	0.0037	NA	0.0079	NA	< 0.0026 U	< 0.0027 U	NA	0.0162	NA	0.0138	NA	0.0165	NA
SW8081	GAMMA-CHLORDANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	HEPTACHLOR	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	HEPTACHLOR EPOXIDE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	< 0.0028 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	HEXACHLOROBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0029 U	NA	0.0044	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	0.0077	NA	< 0.0026 U	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	NA
SW8081	LINDANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0017 U	NA	< 0.0017 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0017 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA
SW8082	AROCLOR-1262	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	< 0.0531 U	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	< 0.0570 U	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	< 0.0500 U	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	AROCLOR-1268	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	< 0.0531 U	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	< 0.0570 U	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	< 0.0500 U	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	PCB-1016	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	< 0.0531 U	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	< 0.0570 U	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	< 0.0500 U	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	PCB-1221	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	< 0.0531 U	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	< 0.0570 U	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	< 0.0500 U	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	PCB-1232	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	< 0.0531 U	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	< 0.0570 U	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	< 0.0500 U	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	PCB-1242	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	< 0.0531 U	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	< 0.0570 U	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	< 0.0500 U	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	PCB-1248	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	< 0.0532 U	0.467	< 0.0508 U	< 0.0551 U	< 0.0503 U	< 0.0549 U	< 0.0546 U	< 0.0550 U	< 0.0614 U	< 0.0560 U	< 0.0513 U	0.780	< 0.0540 U	< 0.0537 U	< 0.0534 U	< 0.0486 U	3.82	< 0.0500 U	3.98	< 0.0526 U	2.36	< 0.0514 U
SW8082	PCB-1254	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0861	< 0.0556 U	**23.5**	0.184	4.29	< 0.0508 U	7.02	0.349	1.39	1.57	1.54	< 0.0614 U	3.88	1.93	6.92	1.19	< 0.0537 U	0.0950	0.0724	**16.5**	0.272	**19.6**	0.325	8.29	< 0.0514 U
SW8082	PCB-1260	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0569 U	< 0.0556 U	< 2.83 U	0.0588	3.61	1.38	0.902	0.128	< 0.0549 U	0.434	< 0.0550 U	< 0.0614 U	< 0.0560 U	0.286	< 0.0570 U	0.290	< 0.0537 U	< 0.0534 U	< 0.0486 U	< 1.14 U	0.0659	< 2.85 U	< 0.0526 U	< 0.0549 U	< 0.0514 U
SW8082	Total PCB Aroclors	**10**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0861	< 0.0556 U	**23.5**	0.2428	8.367	1.38	7.922	0.477	1.39	2.004	1.54	< 0.0614 U	3.88	2.216	7.7	1.48	< 0.0537 U	0.095	0.0724	**20.32**	0.3379	**23.58**	0.325	**10.65**	< 0.0514 U
SW8100	TPH	**2,500**	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE	**220**	mg/kg	< 0.278 U	< 0.178 U	< 0.217 U	< 0.0045 U	< 0.128 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1-TRICHLOROETHANE (TCA)	**10,000**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,1,2,2-TETRACHLOROETHANE	**29**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,1,2-TRICHLOROETHANE	**100**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,1-DICHLOROETHANE	**10,000**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,1-DICHLOROETHENE	**10**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,1-DICHLOROPROPENE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2,3-TRICHLOROBENZENE	--	mg/kg	< 0.139 U	0.0857 J	0.0522 J	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,2,3-TRICHLOROPROPANE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2,4-TRICHLOROBENZENE	**10,000**	mg/kg	< 0.139 U	0.826	0.270	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,2,4-TRIMETHYLBENZENE	--	mg/kg	0.181	0.0767 J	0.228	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	**4**	mg/kg	< 0.834 U	< 0.535 U	< 0.652 U	< 0.0045 U	< 0.383 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,2-DIBROMOETHANE (EDB)	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	**1,2-DICHLOROBENZENE**	**10,000**	mg/kg	4.26	50.2	119	< 0.0045 U	0.0919	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,2-DICHLOROETHANE	**63**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,2-DICHLOROPROPANE	**84**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,3,5-TRIMETHYLBENZENE	--	mg/kg	0.167	0.0535 J	0.111	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,3-DICHLOROBENZENE	**10,000**	mg/kg	0.0195 J	0.136	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,3-DICHLOROPROPANE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,4-DICHLOROBENZENE	**240**	mg/kg	0.539	1.00	0.878	< 0.0045 U	0.0268 J	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	1,4-Dioxane	--	mg/kg	< 13.9 U	< 8.92 U	< 10.9 U	< 0.0897 U	< 6.38 U	NA	NA	< 0.104 U	NA	< 0.0722 U	NA	< 0.0668 U	NA	< 0.0649 U	NA	< 0.0867 U	NA	< 0.107 U	NA	< 0.0725 U	NA	< 0.0868 U	NA	< 0.106 U	< 0.109 U	NA	< 0.0820 U	NA	< 0.0942 U	NA	< 0.0706 U	NA
SW8260B	1-Chlorohexane	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	2,2-DICHLOROPROPANE	--	mg/kg	< 0.278 U	< 0.178 U	< 0.217 U	< 0.0045 U	< 0.128 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	2-BUTANONE (MEK)	--	mg/kg	< 3.47 U	< 2.23 U	< 2.72 U	< 0.0448 U	< 1.59 U	NA	NA	< 0.0518 U	NA	< 0.0361 U	NA	< 0.0334 U	NA	< 0.0324 U	NA	< 0.0434 U	NA	< 0.0534 U	NA	< 0.0362 U	NA	< 0.0434 U	NA	< 0.0531 U	< 0.0543 U	NA	< 0.0410 U	NA	0.710	NA	< 0.0353 U	NA
SW8260B	**2-CHLOROTOLUENE**	--	mg/kg	< 0.139 U	0.112	0.0848 J	< 0.0045 U	2.27	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	0.0300	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	2-HEXANONE	--	mg/kg	< 1.39 U	< 0.892 U	< 1.09 U	< 0.0448 U	< 0.638 U	NA	NA	< 0.0518 U	NA	< 0.0361 U	NA	< 0.0334 U	NA	< 0.0324 U	NA	< 0.0434 U	NA	< 0.0534 U	NA	< 0.0362 U	NA	< 0.0434 U	NA	< 0.0531 U	< 0.0543 U	NA	< 0.0410 U	NA	< 0.0471 U	NA	< 0.0353 U	NA
SW8260B	2-PHENYLBUTANE	--	mg/kg	< 0.139 U	< 0.0892 U	0.0239 J	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	4-CHLOROTOLUENE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	0.137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	4-METHYL-2-PENTANONE (MIBK)	**10,000**	mg/kg	< 1.39 U	< 0.892 U	< 1.09 U	< 0.0448 U	< 0.638 U	NA	NA	< 0.0518 U	NA	< 0.0361 U	NA	< 0.0334 U	NA	< 0.0324 U	NA	< 0.0434 U	NA	< 0.0534 U	NA	< 0.0362 U	NA	< 0.0434 U	NA	< 0.0531 U	< 0.0543 U	NA	< 0.0410 U	NA	< 0.0471 U	NA	< 0.0353 U	NA
SW8260B	ACETONE	**10,000**	mg/kg	< 3.47 U	< 2.23 U	< 2.72 U	0.0585	< 1.59 U	NA	NA	< 0.0518 U	NA	< 0.0361 U	NA	< 0.0334 U	NA	< 0.0324 U	NA	< 0.0434 U	NA	< 0.0534 U	NA	< 0.0362 U	NA	< 0.0434 U	NA	< 0.0531 U	< 0.0543 U	NA	0.0627	NA	0.933	NA	0.0649	NA
SW8260B	BENZENE	**200**	mg/kg	0.414	< 0.0892 U	0.628	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	BROMOBENZENE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	BROMODICHLOROMETHANE	**92**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	BROMOFORM	**720**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	BROMOMETHANE	**2,900**	mg/kg	< 0.278 U	< 0.178 U	< 0.217 U	< 0.0090 U	< 0.128 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	CARBON DISULFIDE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	CARBON TETRACHLORIDE	**44**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	**CHLOROBENZENE**	**10,000**	mg/kg	210	33.7	39.2	0.105	4.75	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	CHLOROBROMOMETHANE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	CHLOROETHANE	--	mg/kg	< 0.278 U	< 0.178 U	< 0.217 U	< 0.0090 U	< 0.128 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	CHLOROFORM	**940**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	CHLOROMETHANE	--	mg/kg	< 0.278 U	< 0.178 U	< 0.217 U	< 0.0090 U	< 0.128 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	CIS-1,2-DICHLOROETHENE	**10,000**	mg/kg	< 0.139 U	< 0.0892 U	1.39	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	CIS-1,3-DICHLOROPROPENE	--	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA

			Location	MP-1D	MP-1D	MP-3D	MW-100D	MW-100D	MW-101D	MW-102D	SB101	SB101	SB102	SB102	SB103	SB103	SB104	SB104	SB105	SB105	SB106	SB106	SB107	SB107	SB108	SB108	SB109	SB109	SB109	SB110	SB110	SB111	SB111	SB112	SB112
			Date	5/23/2011	5/23/2011	5/19/2011	5/18/2011	5/18/2011	6/15/2011	6/15/2011	6/12/2012	7/26/2012	6/15/2012	7/26/2012	6/15/2012	7/27/2012	6/15/2012	7/27/2012	6/15/2012	7/26/2012	6/12/2012	7/25/2012	6/15/2012	7/24/2012	6/15/2012	7/23/2012	6/12/2012	6/12/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012
			sample_type_code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
			Start_depth	8	12	12	11	15	11	9	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	0	4	0	4	0	4	0	4
			End_depth	10	13	14	13	15	13	11	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	2	6	2	6	2	6	2	6
Analytical method	**Chemical Name**	**RI Ind/Comm**	**Unit**																																
SW8260B	CYCLOHEXANE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	CYMENE	**--**	mg/kg	0.114 J	0.195	0.0739 J	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DIBROMOCHLOROMETHANE	**68**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	DIBROMOMETHANE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DICHLORODIFLUOROMETHANE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0090 U	< 0.0638 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	Diethyl ether	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DIISOPROPYL ETHER	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	ETHYLBENZENE	**10,000**	mg/kg	1.51	0.0749 J	0.906	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	Ethyltertiarybutylether	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	HEXACHLORO-1,3-BUTADIENE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	ISOPROPYLBENZENE	**10,000**	mg/kg	0.114 J	< 0.0892 U	0.0370 J	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	METHYL ACETATE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	METHYL TERT-BUTYL ETHER	**10,000**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	METHYLCYCLOHEXANE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	METHYLENE CHLORIDE	**760**	mg/kg	0.0778 J	0.0250 J	0.0761 J	< 0.0224 U	0.0408 J	NA	NA	< 0.0259 U	NA	< 0.0180 U	NA	< 0.0167 U	NA	< 0.0162 U	NA	< 0.0217 U	NA	< 0.0267 U	NA	< 0.0181 U	NA	< 0.0217 U	NA	< 0.0266 U	< 0.0271 U	NA	< 0.0205 U	NA	< 0.0235 U	NA	< 0.0176 U	NA
SW8260B	**m-Xylene & p-Xylene**	**--**	mg/kg	1.11	0.0892 J	1.84	< 0.0090 U	< 0.128 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	NAPHTHALENE	**--**	mg/kg	2.24	1.39	2.38	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	N-BUTYLBENZENE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	N-PROPYLBENZENE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	**O-XYLENE**	**--**	mg/kg	2.19	0.0660 J	1.26	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	STYRENE	**190**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	tert-Butylbenzene	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	tertiaryAmylmethylether	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	TETRACHLOROETHENE (PCE)	**110**	mg/kg	< 0.139 U	0.0964	0.128	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	0.0328	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	TETRAHYDROFURAN	**--**	mg/kg	< 1.39 U	< 0.892 U	< 1.09 U	< 0.0045 U	< 0.638 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	**TOLUENE**	**10,000**	mg/kg	0.270	0.0232 J	15.6	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	0.0111	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	TRANS-1,2-DICHLOROETHENE	**10,000**	mg/kg	< 0.139 U	< 0.0892 U	0.0522 J	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	TRANS-1,3-DICHLOROPROPENE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	TRICHLOROETHYLENE	**520**	mg/kg	< 0.139 U	< 0.0892 U	0.0609 J	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	TRICHLOROFLUOROMETHANE	**--**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0045 U	< 0.0638 U	NA	NA	< 0.0052 U	NA	< 0.0036 U	NA	< 0.0033 U	NA	< 0.0032 U	NA	< 0.0043 U	NA	< 0.0053 U	NA	< 0.0036 U	NA	< 0.0043 U	NA	< 0.0053 U	< 0.0054 U	NA	< 0.0041 U	NA	< 0.0047 U	NA	< 0.0035 U	NA
SW8260B	VINYL ACETATE	**--**	mg/kg	< 0.695 U	< 0.446 U	< 0.543 U	< 0.0045 U	< 0.319 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	VINYL CHLORIDE	**3.0**	mg/kg	< 0.139 U	< 0.0892 U	< 0.109 U	< 0.0090 U	< 0.0638 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8260B	**Xylene (Total)**	**10,000**	mg/kg	3.3	0.1552	3.1	< 0.009 U	< 0.128 U	NA	NA	< 0.0104 U	NA	< 0.0072 U	NA	< 0.0067 U	NA	< 0.0065 U	NA	< 0.0087 U	NA	< 0.0107 U	NA	< 0.0072 U	NA	< 0.0087 U	NA	< 0.0106 U	< 0.0109 U	NA	< 0.0082 U	NA	< 0.0094 U	NA	< 0.0071 U	NA
SW8270C	1,2,4,5-TETRACHLOROBENZENE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	1,2-BENZPHENANTHRACENE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.268	NA	< 0.178 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.345 U	NA	1.34	NA	0.469	NA	0.394	NA	< 0.174 U	< 0.179 U	NA	0.453	NA	< 0.187 U	NA	1.07	NA
SW8270C	2,2-OXYBIS(1-CHLOROPROPANE)	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2,4,5-TRICHLOROPHENOL	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2,4,6-TRICHLOROPHENOL	**520**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2,4-DICHLOROPHENOL	**6,100**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2,4-DIMETHYLPHENOL	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2,4-DINITROPHENOL	**4,100**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.81 U	NA	< 1.78 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 3.45 U	NA	< 1.81 U	NA	< 1.77 U	NA	< 1.87 U	NA	< 1.74 U	< 1.79 U	NA	< 1.79 U	NA	< 1.87 U	NA	< 1.73 U	NA
SW8270C	2,4-DINITROTOLUENE	**8.4**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2,6-DINITROTOLUENE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2-CHLORONAPHTHALENE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2-CHLOROPHENOL	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2-METHYLNAPHTHALENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2-METHYLPHENOL	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2-NITROANILINE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	0.553	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	2-NITROPHENOL	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	3,3'-DICHLOROBENZIDINE	**13**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.723 U	NA	< 0.713 U	NA	< 0.668 U	NA	< 0.691 U	NA	< 1.38 U	NA	< 0.722 U	NA	< 0.706 U	NA	< 0.746 U	NA	< 0.695 U	< 0.714 U	NA	< 0.714 U	NA	< 0.746 U	NA	< 0.693 U	NA
SW8270C	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	3-NITROANILINE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	4,6-DINITRO-2-METHYLPHENOL	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.81 U	NA	< 1.78 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 3.45 U	NA	< 1.81 U	NA	< 1.77 U	NA	< 1.87 U	NA	< 1.74 U	< 1.79 U	NA	< 1.79 U	NA	< 1.87 U	NA	< 1.73 U	NA
SW8270C	4-BROMOPHENYL PHENYL ETHER	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	4-CHLORO-3-METHYLPHENOL	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	4-CHLOROPHENYL PHENYL ETHER	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	4-METHYLPHENOL	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.723 U	NA	< 0.713 U	NA	0.865	NA	< 0.691 U	NA	< 1.38 U	NA	< 0.722 U	NA	< 0.706 U	NA	< 0.746 U	NA	< 0.695 U	< 0.714 U	NA	< 0.714 U	NA	< 0.746 U	NA	< 0.693 U	NA
SW8270C	4-NITROPHENOL	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.81 U	NA	< 1.78 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 3.45 U	NA	< 1.81 U	NA	< 1.77 U	NA	< 1.87 U	NA	< 1.74 U	< 1.79 U	NA	< 1.79 U	NA	< 1.87 U	NA	< 1.73 U	NA
SW8270C	ACENAPHTHENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	ACENAPHTHYLENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	ACETOPHENONE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.723 U	NA	< 0.713 U	NA	< 0.668 U	NA	< 0.691 U	NA	< 1.38 U	NA	< 0.722 U	NA	< 0.706 U	NA	< 0.746 U	NA	< 0.695 U	< 0.714 U	NA	< 0.714 U	NA	< 0.746 U	NA	< 0.693 U	NA
SW8270C	ANTHRACENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	0.438	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	0.449	NA
SW8270C	ATRAZINE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	BENZALDEHYDE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	BENZO[A]ANTHRACENE	**7.8**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	1.36	NA	0.510	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	0.468	NA	< 0.372 U	NA	1.07	NA
SW8270C	BENZO[A]PYRENE	**0.8**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.226	NA	< 0.178 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.345 U	NA	1.06	NA	0.499	NA	0.386	NA	< 0.174 U	< 0.179 U	NA	0.379	NA	< 0.187 U	NA	0.825	NA
SW8270C	BENZO[B]FLUORANTHENE	**7.8**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	1.30	NA	0.629	NA	0.475	NA	< 0.347 U	< 0.356 U	NA	0.443	NA	< 0.372 U	NA	0.980	NA
SW8270C	BENZO[G,H,I]PERYLENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	0.711	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	0.501	NA
SW8270C	BENZO[K]FLUORANTHENE	**78**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	0.528	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	0.403	NA
SW8270C	BENZYL BUTYL PHTHALATE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	0.506	NA	1.12	NA	0.797	NA
SW8270C	Biphenyl	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	BIS(2-CHLOROETHOXY)METHANE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	BIS(2-CHLOROETHYL)ETHER	**5.2**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	**410**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	0.392	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	1.29	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	0.384	NA	0.541	NA
SW8270C	CAPROLACTAM	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	CARBAZOLE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	CHLOROPHENOLS	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.81 U	NA	< 1.78 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 3.45 U	NA	< 1.81 U	NA	< 1.77 U	NA	< 1.87 U	NA	< 1.74 U	< 1.79 U	NA	< 1.79 U	NA	< 1.87 U	NA	< 1.73 U	NA
SW8270C	DIBENZO[A,H]ANTHRACENE	**0.8**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.181 U	NA	< 0.178 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.345 U	NA	0.305	NA	< 0.177 U	NA	< 0.187 U	NA	< 0.174 U	< 0.179 U	NA	< 0.179 U	NA	< 0.187 U	NA	0.223	NA
SW8270C	DIBENZOFURAN	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	DIETHYL PHTHALATE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	DIMETHYL PHTHALATE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	DI-N-BUTYLPHTHALATE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	DI-N-OCTYLPHTHALATE	**--**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	FLUORANTHENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.546	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	2.63	NA	0.835	NA	0.653	NA	< 0.347 U	< 0.356 U	NA	0.999	NA	< 0.372 U	NA	2.36	NA
SW8270C	FLUORENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	HEXACHLORO-1,3-BUTADIENE	**73**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	HEXACHLOROBENZENE	**3.6**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.181 U	NA	< 0.178 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.345 U	NA	< 0.181 U	NA	< 0.177 U	NA	< 0.187 U	NA	< 0.174 U	< 0.179 U	NA	< 0.179 U	NA	< 0.187 U	NA	< 0.173 U	NA

Table 4-3 Soil Analytical Results
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			Location	MP-1D	MP-1D	MP-3D	MW-100D	MW-100D	MW-101D	MW-102D	SB101	SB101	SB102	SB102	SB103	SB103	SB104	SB104	SB105	SB105	SB106	SB106	SB107	SB107	SB108	SB108	SB109	SB109	SB109	SB110	SB110	SB111	SB111	SB112	SB112
			Date	5/23/2011	5/23/2011	5/19/2011	5/18/2011	5/18/2011	6/15/2011	6/15/2011	6/12/2012	7/26/2012	6/15/2012	7/26/2012	6/15/2012	7/27/2012	6/15/2012	7/27/2012	6/15/2012	7/26/2012	6/12/2012	7/25/2012	6/15/2012	7/24/2012	6/15/2012	7/23/2012	6/12/2012	6/12/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012
			sample_type_code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N
			Start_depth	8	12	12	11	15	11	9	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	0	4	0	4	0	4	0	4
			End_depth	10	13	14	13	15	13	11	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	2	6	2	6	2	6	2	6
Analytical method	**Chemical Name**	**RI Ind/Com m**	**Unit**																																
SW8270C	HEXACHLOROCYCLOPENTADIENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.81 U	NA	< 1.78 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 3.45 U	NA	< 1.81 U	NA	< 1.77 U	NA	< 1.87 U	NA	< 1.74 U	< 1.79 U	NA	< 1.79 U	NA	< 1.87 U	NA	< 1.73 U	NA
SW8270C	HEXACHLOROETHANE	**410**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	INDENO[1,2,3-CD]PYRENE	**8**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	0.578	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	0.462	NA
SW8270C	NAPHTHALENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	NITROBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	N-NITROSO-DI-N-PROPYLAMINE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	N-NITROSODIPHENYLAMINE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	P-CHLOROANILINE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.723 U	NA	< 0.713 U	NA	< 0.668 U	NA	< 0.691 U	NA	< 1.38 U	NA	< 0.722 U	NA	< 0.706 U	NA	< 0.746 U	NA	< 0.695 U	< 0.714 U	NA	1.64	NA	< 0.746 U	NA	< 0.693 U	NA
SW8270C	PENTACHLOROPHENOL	**48**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.81 U	NA	< 1.78 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 3.45 U	NA	< 1.81 U	NA	< 1.77 U	NA	< 1.87 U	NA	< 1.74 U	< 1.79 U	NA	< 1.79 U	NA	< 1.87 U	NA	< 1.73 U	NA
SW8270C	PHENANTHRENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.382	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	1.58	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	0.806	NA	< 0.372 U	NA	1.48	NA
SW8270C	PHENOL	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	P-NITROANILINE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.361 U	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	< 0.360 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.347 U	< 0.356 U	NA	< 0.356 U	NA	< 0.372 U	NA	< 0.346 U	NA
SW8270C	PYRENE	**10,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.436	NA	< 0.356 U	NA	< 0.334 U	NA	< 0.345 U	NA	< 0.689 U	NA	2.14	NA	0.671	NA	0.597	NA	< 0.347 U	< 0.356 U	NA	0.758	NA	< 0.372 U	NA	1.82	NA
SW9014	CYANIDE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	< 1.02 U	NA	< 1.03 U	NA	< 1.00 U	NA	< 1.03 U	NA	< 1.06 U	NA	< 1.04 U	NA	< 1.01 U	NA	< 1.06 U	NA	< 0.96 U	< 0.97 U	NA	< 1.00 U	NA	< 1.07 U	NA	< 1.02 U	NA
TOC.LK	TOTAL ORGANIC CARBON	**NA**	mg/kg	NA	NA	NA	NA	NA	< 1000 U	3000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
mg/kg = millgram per kilogram
U = not detected above report detection limit
J = estimated value
NA = Not analyzed
all depth units are in feet

Table 4-3 Soil Analytical Results
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Analytical method	Chemical Name	RI Ind/Comm	Unit	SB112	SB113	SB113	SB114	SB114	SB115	SB115	SB115	SB116	SB116	SB117	SB117	SB118	SB118	SB118	SB119	SB119	SB120	SB120	SB121	SB121	SB122	SB122	SB123	SB123	SB124	SB124	SB125	SB125	SB126	SB126	SB127
			Date	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	6/15/2012	7/25/2012	6/15/2012	7/26/2012	6/12/2012	7/26/2012	6/12/2012	6/15/2012	7/26/2012	6/12/2012	7/25/2012	6/15/2012	7/24/2012	6/15/2012	7/24/2012	6/15/2012	7/24/2012	7/27/2012	7/27/2012	7/27/2012	7/27/2012	6/12/2012	7/25/2012	6/12/2012	7/25/2012	7/23/2012
			sample_type_code	FD	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			Start_depth	4	0	4	0	4	0	0	4	0	4	0	4	0	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	4
			End_depth	6	2	6	2	6	2	2	6	2	6	2	6	2	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	6
SW6010	ARSENIC	7.0	mg/kg	NA	3.7	NA	3.7	NA	3.0	3.3	NA	4.4	NA	5.2	NA	2.2	< 2.3 U	NA	2.5	NA	< 2.4 U	NA	2.9	NA	< 2.5 U	NA	< 2.3 U	NA	< 2.3 U	NA	< 2.6 U	NA	< 2.6 U	NA	NA
SW6010	CADMIUM	1,000	mg/kg	NA	< 0.45 U	NA	0.53	NA	< 0.38 U	< 0.51 U	NA	0.99	NA	< 0.55 U	NA	< 0.43 U	2.78	NA	< 0.46 U	NA	< 0.48 U	NA	< 0.48 U	NA	< 0.50 U	NA	NA	NA	NA	NA	< 0.52 U	NA	< 0.51 U	NA	NA
SW6010	COPPER	10,000	mg/kg	NA	15.1	NA	17.4	NA	8.8	9.4	NA	16.9	NA	18.1	NA	9.4	6.7	NA	43.6	NA	10.9	NA	5.9	NA	4.5	NA	< 2.3 U	NA	6.2	NA	3.7	NA	5.5	NA	NA
SW6010	MANGANESE	10,000	mg/kg	NA	195	NA	NA	NA	161	161	NA	193	NA	287	NA	299	137	NA	163	NA	108	NA	158	NA	203	NA	34.5	NA	66.2	NA	84.2	NA	120	NA	NA
SW6010	NICKEL	10,000	mg/kg	NA	7.1	NA	5.6	NA	6.7	6.6	NA	9.2	NA	10.7	NA	7.3	3.7	NA	22.2	NA	4.0	NA	3.8	NA	< 2.5 U	NA	< 2.3 U	NA	< 2.3 U	NA	< 2.6 U	NA	4.2	NA	NA
SW6010	VANADIUM	10,000	mg/kg	NA	10.0	NA	10.1	NA	12.3	15.7	NA	37.0	NA	12.0	NA	12.5	11.8	NA	108	NA	5.2	NA	6.9	NA	4.0	NA	< 0.9 U	NA	2.3	NA	4.5	NA	5.7	NA	NA
SW6010	ZINC	10,000	mg/kg	NA	123	NA	140	NA	85.6	107	NA	150	NA	75.1	NA	82.2	59.3	NA	131	NA	91.6	NA	71.4	NA	35.0	NA	7.5	NA	46.9	NA	21.1	NA	23.7	NA	NA
SW7471	MERCURY	610	mg/kg	NA	0.416	NA	0.536	NA	0.137	0.186	NA	2.22	NA	0.132	NA	0.097	0.282	NA	0.940	NA	0.055	NA	0.373	NA	< 0.030 U	NA	< 0.028 U	NA	0.062	NA	0.049	NA	0.067	NA	NA
SW8081	1,1,1-TRICHLORO-2,2-BIS (P-METHOXPHENYL)-ETHANE	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	0.0061	NA	0.0578	< 0.0025 U	NA	< 0.0029 U	NA	0.0147	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	4,4-DDD	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	4,4-DDE	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	0.118	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	4,4-DDT	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ALDRIN	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ALPHA-BHC	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ALPHA-CHLORDANE	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	BETA-BHC	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	CAMPHECHLOR	--	mg/kg	NA	< 0.133 U	NA	< 0.135 U	NA	< 0.134 U	< 0.131 U	NA	< 0.139 U	NA	< 0.141 U	NA	< 0.132 U	< 0.126 U	NA	< 0.143 U	NA	< 0.134 U	NA	< 0.136 U	NA	< 0.131 U	NA	< 0.131 U	NA	< 0.131 U	NA	< 0.136 U	NA	< 0.137 U	NA	NA
SW8081	CHLORDANE	4.4	mg/kg	NA	< 0.0318 U	NA	< 0.0324 U	NA	< 0.0322 U	< 0.0315 U	NA	< 0.0334 U	NA	< 0.0339 U	NA	< 0.0318 U	< 0.0303 U	NA	< 0.0344 U	NA	< 0.0321 U	NA	< 0.0326 U	NA	< 0.0314 U	NA	< 0.0314 U	NA	< 0.0314 U	NA	< 0.0326 U	NA	< 0.0329 U	NA	NA
SW8081	DELTA-BHC	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	DIELDRIN	0.4	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	0.0156	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ENDOSULFAN I	--	mg/kg	NA	0.0361	NA	0.0477	NA	0.0138	0.0118	NA	0.0238	NA	< 0.0028 U	NA	< 0.0026 U	0.0071	NA	0.0151	NA	0.0111	NA	0.0050	NA	< 0.0026 U	NA	< 0.0026 U	NA	0.0054	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ENDOSULFAN II	--	mg/kg	NA	0.0544	NA	0.0756	NA	0.0390	0.0211	NA	0.0437	NA	< 0.0028 U	NA	< 0.0026 U	0.0146	NA	0.0388	NA	0.0066	NA	0.0113	NA	< 0.0026 U	NA	< 0.0026 U	NA	0.0118	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ENDOSULFAN SULFATE	--	mg/kg	NA	0.0061	NA	0.0044	NA	< 0.0027 U	< 0.0026 U	NA	0.0043	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ENDRIN	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	0.0454	NA	0.0072	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	0.0143	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ENDRIN ALDEHYDE	--	mg/kg	NA	< 0.0027 U	NA	0.0263	NA	0.0154	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	0.0168	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	ENDRIN KETONE	--	mg/kg	NA	0.0243	NA	0.0220	NA	0.0118	0.0062	NA	0.0317	NA	< 0.0028 U	NA	< 0.0026 U	0.0767	NA	0.0133	NA	0.0112	NA	0.0028	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	GAMMA-CHLORDANE	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	HEPTACHLOR	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	HEPTACHLOR EPOXIDE	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	< 0.0028 U	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	< 0.0029 U	NA	0.0033	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	HEXACHLOROBENZENE	--	mg/kg	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0027 U	< 0.0026 U	NA	0.0087	NA	< 0.0028 U	NA	< 0.0026 U	< 0.0025 U	NA	0.0043	NA	< 0.0027 U	NA	< 0.0027 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0026 U	NA	< 0.0027 U	NA	< 0.0027 U	NA	NA
SW8081	LINDANE	--	mg/kg	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	< 0.0016 U	NA	< 0.0017 U	NA	< 0.0017 U	NA	< 0.0016 U	< 0.0015 U	NA	< 0.0017 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	< 0.0016 U	NA	NA
SW8082	AROCLOR-1262	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	< 2.73 U	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	AROCLOR-1268	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	< 2.73 U	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1016	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	< 2.73 U	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1221	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	< 2.73 U	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1232	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	< 2.73 U	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1242	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	< 2.73 U	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1248	10	mg/kg	< 0.0502 U	< 2.76 U	< 0.0529 U	7.44	< 0.0509 U	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	< 0.0543 U	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	0.943	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	< 0.0518 U	< 0.0526 U	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1254	10	mg/kg	< 0.0502 U	**19.3**	2.40	**29.3**	0.731	8.54	5.41	< 0.0537 U	**16.4**	**10.7**	0.295	0.0908	0.187	7.39	< 0.0503 U	**13.2**	**71.8**	1.79	< 0.0622 U	**10.8**	< 0.0605 U	0.162	**11.6**	< 0.0498 U	< 0.0510 U	0.791	0.454	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	PCB-1260	10	mg/kg	< 0.0502 U	< 2.76 U	0.370	< 2.73 U	0.238	< 0.0566 U	< 0.0555 U	< 0.0537 U	< 1.16 U	< 1.03 U	< 0.0562 U	< 0.0538 U	0.0901	< 0.0529 U	< 0.0503 U	< 2.79 U	< 5.64 U	< 0.0546 U	< 0.0622 U	< 1.10 U	< 0.0605 U	< 0.0537 U	< 1.09 U	< 0.0498 U	< 0.0510 U	0.148	0.0890	< 0.0540 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8082	Total PCB Aroclors	10	mg/kg	< 0.0502 U	**19.3**	2.77	**36.74**	0.969	8.54	5.41	< 0.0537 U	16.4	**10.7**	0.295	0.0908	0.2771	7.39	< 0.0503 U	**13.2**	**71.8**	2.733	< 0.0622 U	**10.8**	< 0.0605 U	0.162	**11.6**	< 0.0498 U	< 0.051 U	0.939	0.543	< 0.054 U	< 0.0521 U	< 0.0532 U	< 0.0531 U	< 0.0498 U
SW8100	TPH	2,500	mg/kg	NA	NA	NA	NA	NA	57.7	43.0	NA	379	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE	220	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1-TRICHLOROETHANE (TCA)	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,1,2,2-TETRACHLOROETHANE	29	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,1,2-TRICHLOROETHANE	100	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,1-DICHLOROETHANE	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,1-DICHLOROETHENE	10	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,1-DICHLOROPROPENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2,3-TRICHLOROBENZENE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,2,3-TRICHLOROPROPANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2,4-TRICHLOROBENZENE	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,2,4-TRIMETHYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	4	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,2-DIBROMOETHANE (EDB)	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	**1,2-DICHLOROBENZENE**	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,2-DICHLOROETHANE	63	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,2-DICHLOROPROPANE	84	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,3,5-TRIMETHYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,3-DICHLOROBENZENE	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,3-DICHLOROPROPANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,4-DICHLOROBENZENE	240	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	1,4-Dioxane	--	mg/kg	NA	< 0.0811 U	NA	< 0.102 U	NA	< 0.0931 U	< 0.0744 U	NA	< 0.0952 U	NA	< 0.104 U	NA	< 0.100 U	< 0.0706 U	NA	< 0.116 U	NA	< 0.0757 U	NA	< 0.0727 U	NA	< 0.0694 U	NA	< 0.0836 U	NA	< 0.0631 U	NA	< 0.117 U	NA	< 0.107 U	NA	NA
SW8260B	1-Chlorohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	2,2-DICHLOROPROPANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	2-BUTANONE (MEK)	--	mg/kg	NA	< 0.0406 U	NA	< 0.0511 U	NA	< 0.0466 U	< 0.0372 U	NA	0.132	NA	< 0.0520 U	NA	< 0.0502 U	< 0.0353 U	NA	< 0.0579 U	NA	< 0.0379 U	NA	< 0.0363 U	NA	< 0.0347 U	NA	< 0.0418 U	NA	< 0.0316 U	NA	< 0.0585 U	NA	< 0.0537 U	NA	NA
SW8260B	**2-CHLOROTOLUENE**	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	2-HEXANONE	--	mg/kg	NA	< 0.0406 U	NA	< 0.0511 U	NA	< 0.0466 U	< 0.0372 U	NA	< 0.0476 U	NA	< 0.0520 U	NA	< 0.0502 U	< 0.0353 U	NA	< 0.0579 U	NA	< 0.0379 U	NA	< 0.0363 U	NA	< 0.0347 U	NA	< 0.0418 U	NA	< 0.0316 U	NA	< 0.0585 U	NA	< 0.0537 U	NA	NA
SW8260B	2-PHENYLBUTANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	4-CHLOROTOLUENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	4-METHYL-2-PENTANONE (MIBK)	10,000	mg/kg	NA	< 0.0406 U	NA	< 0.0511 U	NA	< 0.0466 U	< 0.0372 U	NA	< 0.0476 U	NA	< 0.0520 U	NA	< 0.0502 U	< 0.0353 U	NA	< 0.0579 U	NA	< 0.0379 U	NA	< 0.0363 U	NA	< 0.0347 U	NA	< 0.0418 U	NA	< 0.0316 U	NA	< 0.0585 U	NA	< 0.0537 U	NA	NA
SW8260B	ACETONE	10,000	mg/kg	NA	< 0.0406 U	NA	< 0.0511 U	NA	0.0758	< 0.0372 U	NA	0.262	NA	< 0.0520 U	NA	< 0.0502 U	< 0.0353 U	NA	< 0.0579 U	NA	< 0.0379 U	NA	< 0.0363 U	NA	< 0.0347 U	NA	< 0.0418 U	NA	< 0.0316 U	NA	< 0.0585 U	NA	< 0.0537 U	NA	NA
SW8260B	BENZENE	200	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	BROMOBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	BROMODICHLOROMETHANE	92	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	BROMOFORM	720	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	BROMOMETHANE	2,900	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	CARBON DISULFIDE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	CARBON TETRACHLORIDE	44	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	**CHLOROBENZENE**	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	CHLOROBROMOMETHANE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	CHLOROETHANE	--	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	CHLOROFORM	940	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	CHLOROMETHANE	--	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	CIS-1,2-DICHLOROETHENE	10,000	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	CIS-1,3-DICHLOROPROPENE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA

Table 4-3 Soil Analytical Results
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

			Location	SB112	SB113	SB113	SB114	SB114	SB115	SB115	SB115	SB116	SB116	SB117	SB117	SB118	SB118	SB118	SB119	SB119	SB120	SB120	SB121	SB121	SB122	SB122	SB123	SB123	SB124	SB124	SB125	SB125	SB126	SB126	SB127
			Date	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	6/15/2012	7/25/2012	6/15/2012	7/26/2012	6/12/2012	7/26/2012	6/12/2012	6/15/2012	7/26/2012	6/12/2012	7/25/2012	6/15/2012	7/24/2012	6/15/2012	7/24/2012	6/15/2012	7/24/2012	7/27/2012	7/27/2012	7/27/2012	7/27/2012	6/12/2012	7/25/2012	6/12/2012	7/25/2012	7/23/2012
			sample_type_code	FD	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			Start_depth	4	0	4	0	4	0	0	4	0	4	0	4	0	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	4
			End_depth	6	2	6	2	6	2	2	6	2	6	2	6	2	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	6
Analytical method	**Chemical Name**	**RI Ind/Comm**	**Unit**																																
SW8260B	CYCLOHEXANE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	CYMENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DIBROMOCHLOROMETHANE	**68**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	DIBROMOMETHANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DICHLORODIFLUOROMETHANE	--	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	Diethyl ether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DIISOPROPYL ETHER	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	ETHYLBENZENE	**10,000**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	Ethyltertiarybutylether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	HEXACHLORO-1,3-BUTADIENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	ISOPROPYLBENZENE	**10,000**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	METHYL ACETATE	--	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	METHYL TERT-BUTYL ETHER	**10,000**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	METHYLCYCLOHEXANE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	METHYLENE CHLORIDE	**760**	mg/kg	NA	< 0.0203 U	NA	< 0.0255 U	NA	< 0.0233 U	< 0.0186 U	NA	< 0.0238 U	NA	< 0.0260 U	NA	< 0.0251 U	< 0.0177 U	NA	< 0.0289 U	NA	< 0.0189 U	NA	< 0.0182 U	NA	< 0.0174 U	NA	< 0.0209 U	NA	< 0.0158 U	NA	< 0.0292 U	NA	< 0.0269 U	NA	NA
SW8260B	**m-Xylene & p-Xylene**	--	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	NAPHTHALENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	N-BUTYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	N-PROPYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	**O-XYLENE**	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	STYRENE	**190**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	tert-Butylbenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	tertiaryAmylmethylether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	TETRACHLOROETHENE (PCE)	**110**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	TETRAHYDROFURAN	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	**TOLUENE**	**10,000**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	0.0161	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	TRANS-1,2-DICHLOROETHENE	**10,000**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	TRANS-1,3-DICHLOROPROPENE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	TRICHLOROETHYLENE	**520**	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	TRICHLOROFLUOROMETHANE	--	mg/kg	NA	< 0.0041 U	NA	< 0.0051 U	NA	< 0.0047 U	< 0.0037 U	NA	< 0.0048 U	NA	< 0.0052 U	NA	< 0.0050 U	< 0.0035 U	NA	< 0.0058 U	NA	< 0.0038 U	NA	< 0.0036 U	NA	< 0.0035 U	NA	< 0.0042 U	NA	< 0.0032 U	NA	< 0.0058 U	NA	< 0.0054 U	NA	NA
SW8260B	VINYL ACETATE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	VINYL CHLORIDE	**3.0**	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.0100 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8260B	**Xylene (Total)**	**10,000**	mg/kg	NA	< 0.0081 U	NA	< 0.0102 U	NA	< 0.0093 U	< 0.0074 U	NA	< 0.0095 U	NA	< 0.0104 U	NA	< 0.01 U	< 0.0071 U	NA	< 0.0116 U	NA	< 0.0076 U	NA	< 0.0073 U	NA	< 0.0069 U	NA	< 0.0084 U	NA	< 0.0063 U	NA	< 0.0117 U	NA	< 0.0107 U	NA	NA
SW8270C	1,2,4,5-TETRACHLOROBENZENE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	1,2-BENZPHENANTHRACENE	--	mg/kg	NA	0.195	NA	0.415	NA	< 0.180 U	< 0.177 U	NA	0.225	NA	< 0.186 U	NA	< 0.179 U	< 0.168 U	NA	0.197	NA	< 0.182 U	NA	< 0.172 U	NA	< 0.174 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.175 U	NA	< 0.172 U	NA	NA
SW8270C	2,2-OXYBIS(1-CHLOROPROPANE)	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2,4,5-TRICHLOROPHENOL	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2,4,6-TRICHLOROPHENOL	**520**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2,4-DICHLOROPHENOL	**6,100**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2,4-DIMETHYLPHENOL	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2,4-DINITROPHENOL	**4,100**	mg/kg	NA	< 1.75 U	NA	< 1.93 U	NA	< 1.80 U	< 1.77 U	NA	< 1.77 U	NA	< 1.86 U	NA	< 1.79 U	< 1.68 U	NA	< 1.81 U	NA	< 1.82 U	NA	< 1.72 U	NA	< 1.74 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 1.75 U	NA	< 1.72 U	NA	NA
SW8270C	2,4-DINITROTOLUENE	**8.4**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2,6-DINITROTOLUENE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2-CHLORONAPHTHALENE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2-CHLOROPHENOL	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2-METHYLNAPHTHALENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2-METHYLPHENOL	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2-NITROANILINE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	2-NITROPHENOL	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	3,3'-DICHLOROBENZIDINE	**13**	mg/kg	NA	< 0.697 U	NA	< 0.770 U	NA	< 0.719 U	< 0.706 U	NA	< 0.707 U	NA	< 0.744 U	NA	< 0.714 U	< 0.670 U	NA	< 0.722 U	NA	< 0.727 U	NA	< 0.685 U	NA	< 0.695 U	NA	< 0.667 U	NA	< 0.692 U	NA	< 0.697 U	NA	< 0.688 U	NA	NA
SW8270C	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	3-NITROANILINE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	4,6-DINITRO-2-METHYLPHENOL	--	mg/kg	NA	< 1.75 U	NA	< 1.93 U	NA	< 1.80 U	< 1.77 U	NA	< 1.77 U	NA	< 1.86 U	NA	< 1.79 U	< 1.68 U	NA	< 1.81 U	NA	< 1.82 U	NA	< 1.72 U	NA	< 1.74 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 1.75 U	NA	< 1.72 U	NA	NA
SW8270C	4-BROMOPHENYL PHENYL ETHER	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	4-CHLORO-3-METHYLPHENOL	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	4-CHLOROPHENYL PHENYL ETHER	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	4-METHYLPHENOL	--	mg/kg	NA	< 0.697 U	NA	< 0.770 U	NA	< 0.719 U	< 0.706 U	NA	< 0.707 U	NA	< 0.744 U	NA	< 0.714 U	< 0.670 U	NA	< 0.722 U	NA	< 0.727 U	NA	< 0.685 U	NA	< 0.695 U	NA	< 0.667 U	NA	< 0.692 U	NA	< 0.697 U	NA	< 0.688 U	NA	NA
SW8270C	4-NITROPHENOL	--	mg/kg	NA	< 1.75 U	NA	< 1.93 U	NA	< 1.80 U	< 1.77 U	NA	< 1.77 U	NA	< 1.86 U	NA	< 1.79 U	< 1.68 U	NA	< 1.81 U	NA	< 1.82 U	NA	< 1.72 U	NA	< 1.74 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 1.75 U	NA	< 1.72 U	NA	NA
SW8270C	ACENAPHTHENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	ACENAPHTHYLENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	ACETOPHENONE	--	mg/kg	NA	< 0.697 U	NA	< 0.770 U	NA	< 0.719 U	< 0.706 U	NA	< 0.707 U	NA	< 0.744 U	NA	< 0.714 U	< 0.670 U	NA	< 0.722 U	NA	< 0.727 U	NA	< 0.685 U	NA	< 0.695 U	NA	< 0.667 U	NA	< 0.692 U	NA	< 0.697 U	NA	< 0.688 U	NA	NA
SW8270C	ANTHRACENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	ATRAZINE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BENZALDEHYDE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	1.04	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BENZO[A]ANTHRACENE	**7.8**	mg/kg	NA	< 0.348 U	NA	0.396	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BENZO[A]PYRENE	**0.8**	mg/kg	NA	0.188	NA	0.362	NA	< 0.180 U	< 0.177 U	NA	0.198	NA	< 0.186 U	NA	< 0.179 U	< 0.168 U	NA	0.202	NA	< 0.182 U	NA	< 0.172 U	NA	< 0.174 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.175 U	NA	< 0.172 U	NA	NA
SW8270C	BENZO[B]FLUORANTHENE	**7.8**	mg/kg	NA	< 0.348 U	NA	0.418	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BENZO[G,H,I]PERYLENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BENZO[K]FLUORANTHENE	**78**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BENZYL BUTYL PHTHALATE	--	mg/kg	NA	1.40	NA	0.830	NA	< 0.359 U	< 0.353 U	NA	2.10	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	Biphenyl	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BIS(2-CHLOROETHOXY)METHANE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BIS(2-CHLOROETHYL)ETHER	**5.2**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	**410**	mg/kg	NA	0.971	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	CAPROLACTAM	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	CARBAZOLE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	CHLOROPHENOLS	--	mg/kg	NA	< 1.75 U	NA	< 1.93 U	NA	< 1.80 U	< 1.77 U	NA	< 1.77 U	NA	< 1.86 U	NA	< 1.79 U	< 1.68 U	NA	< 1.81 U	NA	< 1.82 U	NA	< 1.72 U	NA	< 1.74 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 1.75 U	NA	< 1.72 U	NA	NA
SW8270C	DIBENZO[A,H]ANTHRACENE	**0.8**	mg/kg	NA	< 0.175 U	NA	< 0.193 U	NA	< 0.180 U	< 0.177 U	NA	< 0.177 U	NA	< 0.186 U	NA	< 0.179 U	< 0.168 U	NA	< 0.181 U	NA	< 0.182 U	NA	< 0.172 U	NA	< 0.174 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.175 U	NA	< 0.172 U	NA	NA
SW8270C	DIBENZOFURAN	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	DIETHYL PHTHALATE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	DIMETHYL PHTHALATE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	DI-N-BUTYLPHTHALATE	--	mg/kg	NA	0.426	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	DI-N-OCTYLPHTHALATE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	FLUORANTHENE	**10,000**	mg/kg	NA	0.352	NA	0.821	NA	< 0.359 U	< 0.353 U	NA	0.407	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	0.381	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	FLUORENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	HEXACHLORO-1,3-BUTADIENE	**73**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	HEXACHLOROBENZENE	**3.6**	mg/kg	NA	< 0.175 U	NA	< 0.193 U	NA	< 0.180 U	< 0.177 U	NA	< 0.177 U	NA	< 0.186 U	NA	< 0.179 U	< 0.168 U	NA	< 0.181 U	NA	< 0.182 U	NA	< 0.172 U	NA	< 0.174 U	NA	< 0.167 U	NA	< 0.173 U	NA	< 0.175 U	NA	< 0.172 U	NA	NA

Table 4-3 Soil Analytical Results
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

			Location	SB112	SB113	SB113	SB114	SB114	SB115	SB115	SB115	SB116	SB116	SB117	SB117	SB118	SB118	SB118	SB119	SB119	SB120	SB120	SB121	SB121	SB122	SB122	SB123	SB123	SB124	SB124	SB125	SB125	SB126	SB126	SB127
			Date	7/23/2012	6/15/2012	7/23/2012	6/15/2012	7/23/2012	6/15/2012	6/15/2012	7/25/2012	6/15/2012	7/26/2012	6/12/2012	7/26/2012	6/12/2012	6/15/2012	7/26/2012	6/12/2012	7/25/2012	6/15/2012	7/24/2012	6/15/2012	7/24/2012	6/15/2012	7/24/2012	7/27/2012	7/27/2012	7/27/2012	7/27/2012	6/12/2012	7/25/2012	6/12/2012	7/25/2012	7/23/2012
			sample_type_code	FD	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			Start_depth	4	0	4	0	4	0	0	4	0	4	0	4	0	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	0	4	4
			End_depth	6	2	6	2	6	2	2	6	2	6	2	6	2	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	2	6	6
Analytical method	**Chemical Name**	**RI Ind/Comm**	**Unit**																																
SW8270C	HEXACHLOROCYCLOPENTADIENE	--	mg/kg	NA	< 1.75 U	NA	< 1.93 U	NA	< 1.80 U	< 1.77 U	NA	< 1.77 U	NA	< 1.86 U	NA	< 1.79 U	< 1.68 U	NA	< 1.81 U	NA	< 1.82 U	NA	< 1.72 U	NA	< 1.74 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 1.75 U	NA	< 1.72 U	NA	NA
SW8270C	HEXACHLOROETHANE	**410**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	INDENO[1,2,3-CD]PYRENE	**8**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	NAPHTHALENE	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	NITROBENZENE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	N-NITROSO-DI-N-PROPYLAMINE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	N-NITROSODIPHENYLAMINE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	P-CHLOROANILINE	--	mg/kg	NA	< 0.697 U	NA	< 0.770 U	NA	< 0.719 U	< 0.706 U	NA	< 0.707 U	NA	< 0.744 U	NA	< 0.714 U	< 0.670 U	NA	0.986	NA	0.869	NA	< 0.685 U	NA	< 0.695 U	NA	< 0.667 U	NA	< 0.692 U	NA	< 0.697 U	NA	< 0.688 U	NA	NA
SW8270C	PENTACHLOROPHENOL	**48**	mg/kg	NA	< 1.75 U	NA	< 1.93 U	NA	< 1.80 U	< 1.77 U	NA	< 1.77 U	NA	< 1.86 U	NA	< 1.79 U	< 1.68 U	NA	< 1.81 U	NA	< 1.82 U	NA	< 1.72 U	NA	< 1.74 U	NA	< 1.67 U	NA	< 1.73 U	NA	< 1.75 U	NA	< 1.72 U	NA	NA
SW8270C	PHENANTHRENE	**10,000**	mg/kg	NA	< 0.348 U	NA	0.596	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	PHENOL	**10,000**	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	1.28	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	P-NITROANILINE	--	mg/kg	NA	< 0.348 U	NA	< 0.384 U	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW8270C	PYRENE	**10,000**	mg/kg	NA	< 0.348 U	NA	0.596	NA	< 0.359 U	< 0.353 U	NA	< 0.353 U	NA	< 0.372 U	NA	< 0.357 U	< 0.334 U	NA	< 0.360 U	NA	< 0.363 U	NA	< 0.342 U	NA	< 0.347 U	NA	< 0.333 U	NA	< 0.346 U	NA	< 0.348 U	NA	< 0.344 U	NA	NA
SW9014	CYANIDE	--	mg/kg	NA	< 1.01 U	NA	< 1.03 U	NA	< 1.08 U	< 1.04 U	NA	< 1.05 U	NA	< 1.03 U	NA	< 1.06 U	< 0.95 U	NA	< 1.05 U	NA	< 1.00 U	NA	< 1.03 U	NA	< 1.02 U	NA	< 0.93 U	NA	< 0.99 U	NA	< 1.03 U	NA	< 1.04 U	NA	NA
TOC.LK	TOTAL ORGANIC CARBON	**NA**	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
mg/kg = millgram per kilogram
U = not detected above report detection limit
J = estimated value
NA = Not analyzed
all depth units are in feet

AECOM

			Location	SB127	SB127	SB127	SB128	SB128	SB129	SB129	SB130	SB131	SB132	SB133	SB134	SB135	SB136	SB136	SB137
			Date	7/24/2012	7/26/2012	7/26/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/27/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/27/2012	7/27/2012	7/27/2012	7/27/2012
			sample_type_code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			Start_depth	0	4	10	0	4	0	4	19	19	20	19	20	20	20	20	22
			End_depth	2	6	12	2	6	2	6	21	21	22	21	22	22	22	22	24
Analytical method	**Chemical Name**	**RI Ind/Com m**	**Unit**																
SW6010	ARSENIC	**7.0**	mg/kg	< 2.4 U	NA	NA	5.5	NA	< 2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	CADMIUM	**1,000**	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	COPPER	**10,000**	mg/kg	9.3	NA	NA	11.9	NA	8.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	MANGANESE	**10,000**	mg/kg	156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	NICKEL	**10,000**	mg/kg	4.9	NA	NA	6.5	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	VANADIUM	**10,000**	mg/kg	5.5	NA	NA	12.1	NA	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	ZINC	**10,000**	mg/kg	19.1	NA	NA	42.9	NA	44.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW7471	MERCURY	**610**	mg/kg	< 0.032 U	NA	NA	0.124	NA	0.457	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	1,1,1-TRICHLORO-2,2-BIS (P-METHOXPHENYL)-ETHANE	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	4,4-DDD	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	4,4-DDE	--	mg/kg	< 0.0027 U	NA	NA	0.0178	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	4,4-DDT	--	mg/kg	< 0.0027 U	NA	NA	0.0847	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ALDRIN	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ALPHA-BHC	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ALPHA-CHLORDANE	--	mg/kg	< 0.0027 U	NA	NA	0.0241	NA	0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	BETA-BHC	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	CAMPHECHLOR	--	mg/kg	< 0.135 U	NA	NA	< 0.130 U	NA	< 0.139 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	CHLORDANE	**4.4**	mg/kg	< 0.0324 U	NA	NA	0.163	NA	< 0.0334 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	DELTA-BHC	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	DIELDRIN	**0.4**	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ENDOSULFAN I	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ENDOSULFAN II	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ENDOSULFAN SULFATE	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ENDRIN	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ENDRIN ALDEHYDE	--	mg/kg	< 0.0027 U	NA	NA	0.0070	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	ENDRIN KETONE	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	GAMMA-CHLORDANE	--	mg/kg	< 0.0027 U	NA	NA	0.0139	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	HEPTACHLOR	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	HEPTACHLOR EPOXIDE	--	mg/kg	< 0.0027 U	NA	NA	0.0131	NA	0.0039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	HEXACHLOROBENZENE	--	mg/kg	< 0.0027 U	NA	NA	< 0.0026 U	NA	< 0.0028 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8081	LINDANE	--	mg/kg	< 0.0016 U	NA	NA	< 0.0016 U	NA	< 0.0017 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1262	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1268	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1016	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1221	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1232	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1242	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1248	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1254	**10**	mg/kg	< 0.0506 U	NA	NA	< 0.0534 U	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	PCB-1260	**10**	mg/kg	< 0.0506 U	NA	NA	0.0541	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	Total PCB Aroclors	**10**	mg/kg	< 0.0506 U	NA	NA	0.0541	< 0.0554 U	< 0.0551 U	< 0.0515 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8100	TPH	**2,500**	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE	**220**	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1-TRICHLOROETHANE (TCA)	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,1,2,2-TETRACHLOROETHANE	**29**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,1,2-TRICHLOROETHANE	**100**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,1-DICHLOROETHANE	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,1-DICHLOROETHENE	**10**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,1-DICHLOROPROPENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2,3-TRICHLOROBENZENE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,2,3-TRICHLOROPROPANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2,4-TRICHLOROBENZENE	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	0.0540 D J	< 0.0552 D U	0.0232 D J	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,2,4-TRIMETHYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	**4**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.305 D U	< 0.386 D U	< 0.331 D U	< 0.331 D U	< 0.0041 U	< 0.366 D U	< 0.378 D U	< 0.332 D U
SW8260B	1,2-DIBROMOETHANE (EDB)	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	**1,2-DICHLOROBENZENE**	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	0.384 D	0.0618 D	0.0751 D	< 0.0041 U	0.0268 D J	0.0315 D J	0.152 D
SW8260B	1,2-DICHLOROETHANE	**63**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,2-DICHLOROPROPANE	**84**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,3,5-TRIMETHYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,3-DICHLOROBENZENE	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,3-DICHLOROPROPANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,4-DICHLOROBENZENE	**240**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	0.0244 D J	0.0232 D J	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	1,4-Dioxane	--	mg/kg	< 0.0822 U	< 0.0729 U	< 0.0803 U	< 0.0845 U	NA	< 0.0960 U	NA	< 0.0745 U	< 5.09 D U	< 6.43 D U	< 5.52 D U	< 5.52 D U	< 0.0812 U	< 6.10 D U	< 6.29 D U	< 5.54 D U
SW8260B	1-Chlorohexane	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	2,2-DICHLOROPROPANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	2-BUTANONE (MEK)	--	mg/kg	< 0.0411 U	< 0.0364 U	< 0.0401 U	< 0.0423 U	NA	< 0.0480 U	NA	< 0.0372 U	< 1.27 D U	< 1.61 D U	< 1.38 D U	< 1.38 D U	< 0.0406 U	< 1.53 D U	< 1.57 D U	< 1.38 D U
SW8260B	**2-CHLOROTOLUENE**	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	0.518 D	112 D	3.25 D	4.22 D	0.161	3.59 D	4.17 D	< 0.0554 D U
SW8260B	2-HEXANONE	--	mg/kg	< 0.0411 U	< 0.0364 U	< 0.0401 U	< 0.0423 U	NA	< 0.0480 U	NA	< 0.0372 U	< 0.509 D U	< 0.643 D U	< 0.552 D U	< 0.552 D U	< 0.0406 U	< 0.610 D U	< 0.629 D U	< 0.554 D U
SW8260B	2-PHENYLBUTANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	4-CHLOROTOLUENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	4-METHYL-2-PENTANONE (MIBK)	**10,000**	mg/kg	< 0.0411 U	< 0.0364 U	< 0.0401 U	< 0.0423 U	NA	< 0.0480 U	NA	< 0.0372 U	< 0.509 D U	< 0.643 D U	< 0.552 D U	< 0.552 D U	< 0.0406 U	< 0.610 D U	< 0.629 D U	< 0.554 D U
SW8260B	ACETONE	**10,000**	mg/kg	< 0.0411 U	< 0.0364 U	< 0.0401 U	< 0.0423 U	NA	< 0.0480 U	NA	< 0.0372 U	< 1.27 D U	< 1.61 D U	< 1.38 D U	< 1.38 D U	< 0.0406 U	< 1.53 D U	< 1.57 D U	< 1.38 D U
SW8260B	BENZENE	**200**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	0.369 D	< 0.0643 D U	0.224 D	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	0.0255 D J
SW8260B	BROMOBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	BROMODICHLOROMETHANE	**92**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	BROMOFORM	**720**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	BROMOMETHANE	**2,900**	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	< 0.102 D U	< 0.129 D U	< 0.110 D U	< 0.110 D U	< 0.0081 U	< 0.122 D U	< 0.126 D U	< 0.111 D U
SW8260B	CARBON DISULFIDE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	CARBON TETRACHLORIDE	**44**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	**CHLOROBENZENE**	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	16.4 D	0.159 D	1.42 D	1.46 D	0.0641	7.95 D	7.27 D	16.6 D
SW8260B	CHLOROBROMOMETHANE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	CHLOROETHANE	--	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	< 0.102 D U	< 0.129 D U	< 0.110 D U	< 0.110 D U	< 0.0081 U	< 0.122 D U	< 0.126 D U	< 0.111 D U
SW8260B	CHLOROFORM	**940**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	CHLOROMETHANE	--	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	< 0.102 D U	< 0.129 D U	< 0.110 D U	< 0.110 D U	< 0.0081 U	< 0.122 D U	< 0.126 D U	< 0.111 D U
SW8260B	CIS-1,2-DICHLOROETHENE	**10,000**	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	CIS-1,3-DICHLOROPROPENE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U

AECOM

			Location	SB127	SB127	SB127	SB128	SB128	SB129	SB129	SB130	SB131	SB132	SB133	SB134	SB135	SB136	SB136	SB137
			Date	7/24/2012	7/26/2012	7/26/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/27/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/27/2012	7/27/2012	7/27/2012	7/27/2012
			sample_type_code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			Start_depth	0	4	10	0	4	0	4	19	19	20	19	20	20	20	20	22
			End_depth	2	6	12	2	6	2	6	21	21	22	21	22	22	22	22	24
Analytical method	**Chemical Name**	**RI Ind/Com m**	**Unit**																
SW8260B	CYCLOHEXANE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	CYMENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DIBROMOCHLOROMETHANE	68	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	DIBROMOMETHANE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DICHLORODIFLUOROMETHANE	--	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0081 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	Diethyl ether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	DIISOPROPYL ETHER	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	ETHYLBENZENE	10,000	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	0.375 D	0.456 D	0.178 D	< 0.0552 D U	< 0.0041 U	0.0171 D J	0.0176 D J	0.0177 D J
SW8260B	Ethyltertiarybutylether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	HEXACHLORO-1,3-BUTADIENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	ISOPROPYLBENZENE	10,000	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	0.0180 D J	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	METHYL ACETATE	--	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	0.0915 D J	< 0.643 D U	< 0.552 D U	< 0.552 D U	< 0.0081 U	< 0.610 D U	< 0.629 D U	< 0.554 D U
SW8260B	METHYL TERT-BUTYL ETHER	10,000	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	METHYLCYCLOHEXANE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	0.0758 D	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	METHYLENE CHLORIDE	760	mg/kg	< 0.0206 U	< 0.0182 U	< 0.0201 U	< 0.0211 U	NA	< 0.0240 U	NA	< 0.0186 U	< 0.254 D U	< 0.321 D U	< 0.276 D U	< 0.276 D U	< 0.0203 U	< 0.305 D U	< 0.315 D U	< 0.277 D U
SW8260B	**m-Xylene & p-Xylene**	--	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	0.252 D	1.57 D	0.703 D	0.0265 D J	< 0.0081 U	0.0586 D J	0.0617 D J	< 0.111 D U
SW8260B	NAPHTHALENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	N-BUTYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	N-PROPYLBENZENE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	**O-XYLENE**	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	0.229 D	0.366 D	0.147 D	0.0121 D J	< 0.0041 U	0.0378 D J	0.0365 D J	< 0.0554 D U
SW8260B	STYRENE	190	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	tert-Butylbenzene	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	tertiaryAmylmethylether	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	TETRACHLOROETHENE (PCE)	110	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	TETRAHYDROFURAN	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	**TOLUENE**	10,000	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	0.0163 D J	6.32 D	4.67 D	0.0265 D J	< 0.0041 U	0.0244 D J	0.0290 D J	0.411 D
SW8260B	TRANS-1,2-DICHLOROETHENE	10,000	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	TRANS-1,3-DICHLOROPROPENE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	TRICHLOROETHYLENE	520	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	TRICHLOROFLUOROMETHANE	--	mg/kg	< 0.0041 U	< 0.0036 U	< 0.0040 U	< 0.0042 U	NA	< 0.0048 U	NA	< 0.0037 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0041 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	VINYL ACETATE	--	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	VINYL CHLORIDE	3.0	mg/kg	< 0.0082 U	< 0.0073 U	< 0.0080 U	< 0.0085 U	NA	< 0.0096 U	NA	< 0.0074 U	< 0.0509 D U	< 0.0643 D U	< 0.0552 D U	< 0.0552 D U	< 0.0081 U	< 0.0610 D U	< 0.0629 D U	< 0.0554 D U
SW8260B	**Xylene (Total)**	10,000	mg/kg	< 0.0082 U	< 0.0073 U	< 0.008 U	< 0.0085 U	NA	< 0.0096 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	1,2,4,5-TETRACHLOROBENZENE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	1,2-BENZPHENANTHRACENE	--	mg/kg	< 0.186 U	NA	NA	6.99	NA	0.552	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,2-OXYBIS(1-CHLOROPROPANE)	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,4,5-TRICHLOROPHENOL	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,4,6-TRICHLOROPHENOL	520	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,4-DICHLOROPHENOL	6,100	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,4-DIMETHYLPHENOL	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,4-DINITROPHENOL	4,100	mg/kg	< 1.86 U	NA	NA	< 1.62 U	NA	< 1.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,4-DINITROTOLUENE	8.4	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2,6-DINITROTOLUENE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2-CHLORONAPHTHALENE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2-CHLOROPHENOL	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2-METHYLNAPHTHALENE	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2-METHYLPHENOL	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2-NITROANILINE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	2-NITROPHENOL	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	3,3'-DICHLOROBENZIDINE	13	mg/kg	< 0.742 U	NA	NA	< 0.649 U	NA	< 0.694 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	3-NITROANILINE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	4,6-DINITRO-2-METHYLPHENOL	--	mg/kg	< 1.86 U	NA	NA	< 1.62 U	NA	< 1.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	4-BROMOPHENYL PHENYL ETHER	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	4-CHLORO-3-METHYLPHENOL	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	4-CHLOROPHENYL PHENYL ETHER	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	4-METHYLPHENOL	--	mg/kg	< 0.742 U	NA	NA	< 0.649 U	NA	< 0.694 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	4-NITROPHENOL	--	mg/kg	< 1.86 U	NA	NA	< 1.62 U	NA	< 1.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	ACENAPHTHENE	10,000	mg/kg	< 0.370 U	NA	NA	0.369	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	ACENAPHTHYLENE	10,000	mg/kg	< 0.370 U	NA	NA	1.28	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	ACETOPHENONE	--	mg/kg	< 0.742 U	NA	NA	< 0.649 U	NA	< 0.694 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	ANTHRACENE	10,000	mg/kg	< 0.370 U	NA	NA	2.09	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	ATRAZINE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZALDEHYDE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZO[A]ANTHRACENE	7.8	mg/kg	< 0.370 U	NA	NA	6.07	NA	0.521	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZO[A]PYRENE	0.8	mg/kg	< 0.186 U	NA	NA	5.14	NA	0.473	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZO[B]FLUORANTHENE	7.8	mg/kg	< 0.370 U	NA	NA	6.60	NA	0.608	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZO[G,H,I]PERYLENE	10,000	mg/kg	< 0.370 U	NA	NA	3.20	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZO[K]FLUORANTHENE	78	mg/kg	< 0.370 U	NA	NA	2.24	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BENZYL BUTYL PHTHALATE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	Biphenyl	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BIS(2-CHLOROETHOXY)METHANE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BIS(2-CHLOROETHYL)ETHER	5.2	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	410	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	CAPROLACTAM	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	CARBAZOLE	--	mg/kg	< 0.370 U	NA	NA	0.801	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	CHLOROPHENOLS	--	mg/kg	< 1.86 U	NA	NA	< 1.62 U	NA	< 1.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	DIBENZO[A,H]ANTHRACENE	0.8	mg/kg	< 0.186 U	NA	NA	1.34	NA	< 0.174 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	DIBENZOFURAN	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	DIETHYL PHTHALATE	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	DIMETHYL PHTHALATE	10,000	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	DI-N-BUTYLPHTHALATE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	DI-N-OCTYLPHTHALATE	--	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	FLUORANTHENE	10,000	mg/kg	< 0.370 U	NA	NA	13.8	NA	1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	FLUORENE	10,000	mg/kg	< 0.370 U	NA	NA	0.644	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	HEXACHLORO-1,3-BUTADIENE	73	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	HEXACHLOROBENZENE	3.6	mg/kg	< 0.186 U	NA	NA	< 0.162 U	NA	< 0.174 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4-3 Soil Analytical Results
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

			Location	SB127	SB127	SB127	SB128	SB128	SB129	SB129	SB130	SB131	SB132	SB133	SB134	SB135	SB136	SB136	SB137
			Date	7/24/2012	7/26/2012	7/26/2012	7/25/2012	7/25/2012	7/25/2012	7/25/2012	7/27/2012	7/26/2012	7/26/2012	7/26/2012	7/26/2012	7/27/2012	7/27/2012	7/27/2012	7/27/2012
			sample_type_code	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			Start_depth	0	4	10	0	4	0	4	19	19	20	19	20	20	20	20	22
			End_depth	2	6	12	2	6	2	6	21	21	22	21	22	22	22	22	24
Analytical method	**Chemical Name**	**RI Ind/Com m**	**Unit**																
SW8270C	HEXACHLOROCYCLOPENTADIENE	**--**	mg/kg	< 1.86 U	NA	NA	< 1.62 U	NA	< 1.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	HEXACHLOROETHANE	**410**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	INDENO[1,2,3-CD]PYRENE	**8**	mg/kg	< 0.370 U	NA	NA	2.94	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	NAPHTHALENE	**10,000**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	NITROBENZENE	**--**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	N-NITROSO-DI-N-PROPYLAMINE	**--**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	N-NITROSODIPHENYLAMINE	**--**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	P-CHLOROANILINE	**--**	mg/kg	< 0.742 U	NA	NA	< 0.649 U	NA	< 0.694 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	PENTACHLOROPHENOL	**48**	mg/kg	< 1.86 U	NA	NA	< 1.62 U	NA	< 1.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	PHENANTHRENE	**10,000**	mg/kg	< 0.370 U	NA	NA	7.10	NA	0.503	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	PHENOL	**10,000**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	P-NITROANILINE	**--**	mg/kg	< 0.370 U	NA	NA	< 0.324 U	NA	< 0.347 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8270C	PYRENE	**10,000**	mg/kg	< 0.370 U	NA	NA	11.9	NA	0.942	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW9014	CYANIDE	**--**	mg/kg	< 0.96 U	NA	NA	< 0.98 U	NA	< 1.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC.LK	TOTAL ORGANIC CARBON	**NA**	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes
mg/kg = millgram per kilogram
U = not detected above report detection limit
J = estimated value
NA = Not analyzed
all depth units are in feet

Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sample ID	CFA01B	CFA02BS	CFA03B	CFA04B	CFA05B	CFA06B	CFA07B	CFA08S	CFA09B	CFA10B	CFA11BS	CFB12B	CFA13B	CFA14S	CFA15BS	CFA16B	CFA17B	CFA18S	CFA19B
Depth	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs
Phase	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Collection Date	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/27/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.34 U	36 U	0.71 U	2.2 J	7.3 J	2.6 J	0.37 U	0.35 U	0.34 U	7 U	0.34 U	0.36 U	3.6 U	1.4 U
PCB-1248	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.34 U	36 U	0.71 U	1.7 U	0.7 U	0.7 U	0.37 U	0.35 U	0.34 U	7 U	0.34 U	0.36 U	3.6 U	1.4 U
PCB-1254	0.78	0.35 U	0.34 U	3.2 J	0.36 U	0.34 U	**84**	6.9 J	6	3.5	6.2	1.4 J	2 J	0.34 U	48	2.4 J	0.36 U	32	8.4
PCB-1260	0.34 U	0.35 U	0.34 U	0.73 J	0.36 U	0.34 U	36 U	0.71 U	1.7 U	1.4 J	0.7 U	0.37 U	0.74 J	0.34 U	7 U	0.34 U	0.36 U	3.6 U	1.4 U
Total PCBs	1.29	0.7	0.68	4.28	0.72	0.68	**138**	7.965	9.9	12.55	9.5	1.955	3.09	0.68	58.5	2.91	0.72	37.4	10.5

Notes:
All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" prefix.
All samples include a geographic identifier representing sub-areas "A" through "E".
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
"_S" = indicates a split sample with EPA, e.g., BS or bottom split

Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Sample ID	CFA20B	CFB01SS	CFB02B	CFB03S	CFB04BS	CFB05B	CFB06B	CFB07B	CFB08B	CFB09S	CFB10OS	CFB11B	CFB12B	CFB13B	CFB14C	CFB15B	CFB16B	CFB17B	CFB18B
Depth	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs
Phase	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Collection Date	6/27/95	6/28/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	3.8 U	6.6 U	3.5 U	3.5 U	6.7 U	18 U	7 U	1.4 U	3.4 U	6.7 U	3.4 U	13 U	7 U	6.8 U	0.35 U	6.9 U	6.7 U	7 U	14 U
PCB-1248	3.8 U	6.6 U	3.5 U	3.5 U	6.7 U	21	7 U	1.4 U	3.4 U	6.7 U	3.4 U	13 U	7 U	14	0.35 U	6.9 U	6.7 U	14	14 U
PCB-1254	27	44	25	33	39	**200** J	**52**	13	30	51	25	**77**	34	56 J	1 J	43	32	43 J	**62**
PCB-1260	3.8 U	6.6 U	3.5 U	3.5 U	6.7 U	18 U	7 U	1.4 U	3.4 U	6.7 U	3.4 U	13 U	7 U	6.8 U	0.35 U	6.9 U	6.7 U	7 U	14 U
Total PCBs	32.7	53.9	30.25	38.25	49.05	**239**	**62.5**	15.1	35.1	**61.05**	30.1	**96.5**	44.5	**76.8**	1.525	53.35	42.05	**64**	**83**

Notes:

All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
"_S" = indicates a split sample with EPA, e.g., BS or bottom split

Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Sample ID	CFB19B	CFB20B	CFB21B	CFB22O	CFB23B	CFB24B	CFB25OS	CFB26B	CFB27B	CFB28S	CFB29B	CFB30OS	CFB31B	CFB32C	CFB33B	CFB34B	CFB35SS	CFB36B	CFB37S
Depth	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs
Phase	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Collection Date	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	0.69 U	14 U	6.9 U	3.5 U	0.68 U	0.033 U	3.4 U	0.34 U	1.7 U	0.34 U	17 U	3.3 U	0.33 U	0.35 U	0.33 U	140 U	0.34 U	6.8 U	0.35 U
PCB-1248	0.69 U	44	18	4.8	4	0.033 U	7 J	0.34 U	3.9	0.34 U	**170**	19	0.33 U	0.35 U	0.84 J	**940**	0.37	18	0.35 U
PCB-1254	4.9	53	29	31 J	7.2 J	0.83	30 J	2	15	0.51	**63**	23	0.33 U	0.35 U	3.2 J	140 U	3.2 J	42	0.35 U
PCB-1260	0.69 U	14 U	6.9 U	3.5 U	0.68 U	0.033 U	3.4 U	0.34 U	1.7 U	0.34 U	17 U	3.3 U	0.33 U	0.35 U	0.33 U	140 U	0.34 U	6.8 U	0.35 U
Total PCBs	5.935	**111**	53.9	39.3	11.88	0.8795	40.4	2.51	20.6	1.02	**250**	45.3	0.66	0.7	4.37	**1150**	3.91	**66.8**	0.7

Notes:

All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
"_S" = indicates a split sample with EPA, e.g., BS or bottom split

Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	C	C	C	C	C	D	D	D	D	D	E	E	E	E	E	A	A	A	A
Sample ID	CFC01B	CFC02BS	CFC03B	CFC04B	CFC05OS	CFD01B	CFD02B	CFD03BS	CFD04BS	CFD05B	CFE01B	CFE02BS	CFE03BS	CFE04SS	CFE05B	CFA21S	CFA22B	CFA23B	CFA24B
Depth	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs
Phase	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	II	II	II	II
Collection Date	6/27/95	6/28/95	6/27/95	6/27/95	6/28/95	6/27/95	6/27/95	6/28/95	6/28/95	6/27/95	6/27/95	6/27/95	6/28/95	6/28/95	6/27/95	7/21/95	7/21/95	7/21/95	7/21/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	1.7 U	3.5 U	1.4 U	0.67 U	3.4 U	1.4 U	3.5 U	1.6 U	3.4 U	6.9 U	1.3 U	0.33 U	1.3 U	0.33 U	1.4 U	0.33 U	0.34 U	6.7 U	34 J
PCB-1248	5.3	8.5	3.7 J	3.3 J	16	1.4 U	3.5 U	1.6 U	3.4 U	6.9 U	2	0.33 U	1.3 U	0.33 U	1.4 U	0.33 U	0.34 U	45 J	6.9 U
PCB-1254	20	30	14 J	7.6	23	8.2	34	14	18	**63**	18	0.68	7	0.75 J	9.9	0.39 J	0.34 U	**68**	19
PCB-1260	1.7 U	3.5 U	1.4 U	0.67 U	3.4 U	1.4 U	3.5 U	1.6 U	3.4 U	6.9 U	1.3 U	0.33 U	1.3 U	0.33 U	1.4 U	0.33 U	0.34 U	50	6.9 U
Total PCBs	27	42	19.1	11.57	42.4	10.3	39.25	16.4	23.1	**73.35**	21.3	1.175	8.95	1.245	12	0.885	0.68	**166.35**	59.9

Notes:

All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
"_S" = indicates a split sample with EPA, e.g., BS or bottom split

Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B
Sample ID	CFA25B	CFA26B	CFA27B	CFA28B	CFA29B	CFA30S	CFA31B	CFB38B	CFB39B	CFB40B	CFB41S	CFB42B	CFB43B	CFB44B	CFB45B	CFB46B	CFB47B	CFB48B	CFB49B
Depth	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs
Phase	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
Collection Date	7/21/95	7/21/95	7/21/95	7/21/95	7/21/95	7/21/95	7/21/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	1.3 J	6.9 U	1.5	2.9 J	0.36 U	2.5 J	0.99 J	3.4 U	3.5 U	3.4 U	0.35 U	3.5 U	7.2 U	3.5 U	0.7 U	8.1 U	0.35 U	6.8 U	3.3 U
PCB-1248	0.35 U	6.9 U	0.7 U	0.72 U	0.36 U	0.7 U	0.34 U	3.4 U	3.5 U	3.4 U	0.35 U	3.5 U	7.2 U	4.6	1.3	8.1 U	0.35 U	7.7	3.8
PCB-1254	1.1 J	28	3.6	5	0.61 J	6.2	1.2 J	23	25	25	0.94	29	32	20	6.6	48	1.1	25	27
PCB-1260	0.35 U	6.9 U	0.7 U	0.72 U	0.36 U	0.7 U	0.34 U	3.4 U	3.5 U	3.4 U	0.35 U	3.5 U	7.2 U	3.5 U	0.7 U	8.1 U	0.35 U	6.8 U	3.3 U
Total PCBs	2.75	38.35	5.8	8.62	1.15	9.4	2.53	28.1	30.25	30.1	1.465	34.25	42.8	28.1	8.6	**60.15**	1.625	39.5	34.1

Notes:

All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
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Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Sample ID	CFB50B	CFB51S	CFB52B	CFB53B	CFB54B	CFB55B	CFB56S	CFB57B	CFB58O	CFB59B	CFB60S	CFB61B	CFB62B	CFB63O	CFB64O	CFB65B	CFB66B	CFB67B	CFB68B
Depth	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs
Phase	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
Collection Date	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/21/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/20/95	7/21/95	7/21/95	7/21/95	7/21/95	7/21/95	7/21/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	7.2 U	0.35 U	7 U	0.35 U	3.4 U	0.34 U	6.9 U	0.33 U	3.4 U	0.34 U	0.33 U	0.34 U	3.5 U	7 U	7.2 U	0.34 U	0.34 U	0.36 U	140 U
PCB-1248	19	0.35 U	18	0.35 U	8.8 U	0.34 U	24	0.33 U	8.1	0.57	0.33 U	0.34 U	24	18	20	0.34 U	0.34 U	1 J	**580**
PCB-1254	37	1.1 J	34	2.1	20	0.34 U	50	0.64	24	0.39	0.43	2.8	23	22	**61**	0.36 J	1.4	1.4 J	140 U
PCB-1260	7.2 U	0.35 U	7 U	0.35 U	3.4 U	0.34 U	6.9 U	0.33 U	3.4 U	0.34 U	0.33 U	0.34 U	3.5 U	7 U	7.2 U	0.34 U	0.34 U	0.36 U	140 U
Total PCBs	**63.2**	1.625	59	2.625	27.8	0.68	**80.9**	1.135	35.5	1.3	0.925	3.31	50.5	47	**88.2**	0.87	1.91	2.76	**790**

Notes:

All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
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Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	B	B	B	B	B	B	C	C	C	C	C	A	A	A	A	A	A	A	D
Sample ID	CFB69S	CFB70B	CFB71O	CFB72B	CFB73S	CFB74O	CFC06B	CFC07S	CFC08B	CFC09B	CFC10B	CFA32S	CFA33S	CFA34S	CFA35B	CFA36B	CFA37B	CFA38B	CFD06B
Depth	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs
Phase	II	II	II	II	II	II	II	II	II	II	II	III	III	III	III	III	III	III	III
Collection Date	7/21/95	7/21/95	7/21/95	7/21/95	7/20/95	7/20/95	7/21/95	7/21/95	7/21/95	7/21/95	7/21/95	9/1/95	9/1/95	9/1/95	9/1/95	9/1/95	9/1/95	9/1/95	9/1/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs																			
PCB-1242	1.7 U	18 U	7.3 U	3.5 U	0.35 U	1.4 U	0.34 U	0.69 U	0.34 U	0.34 U	1.4 U	6.2	**99**	0.36 U	1.4 J	57	14 J	2.8 J	0.34 U
PCB-1248	5.3	49	20	8.7	1.5 J	3	0.34 U	1.2	0.34 U	0.45 J	4.3 U	0.89 U	3.5 U	0.36 U	0.34 U	3.5 U	1.8 U	0.35 U	0.34 U
PCB-1254	10	**140**	50	30	0.35 U	12	0.34 U	4	0.34 U	2.7	12	0.89 U	26	0.36 U	0.61 J	27	4	1.2 J	0.34 U
PCB-1260	1.8 J	34 J	9.7 J	6.1	0.35 U	1.4 U	0.34 U	0.69 U	0.34 U	0.34 U	1.4 U	0.89 U	3.5 U	0.36 U	0.34 U	9.5 J	1.8 U	0.35 U	0.34 U
Total PCBs	17.95	**232**	**83.35**	46.55	2.025	16.4	0.68	5.89	0.68	3.49	15.55	7.535	**128.5**	0.72	2.35	**95.25**	19.8	4.35	0.68

Notes:

All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
"_S" = indicates a split sample with EPA, e.g., BS or bottom split

Table 4-4 Historical PCB Soil Data
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

Area	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production	Production
Subarea	D	D	D	D	A	A	A	A	A	A	A	A	A
Sample ID	CFD07B	CFD08B	CFD09B	CFD10S	CFA39S	CFA40S	CFA41S	CFA42B	CFA43B	CFA44B	CFA45B	CFA46B	CFA47B
Depth	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs	0-2 ft bgs
Phase	III	III	III	III	IV	IV	IV	IV	IV	IV	IV	IV	IV
Collection Date	9/1/95	9/1/95	9/1/95	9/1/95	9/14/95	9/14/95	9/14/95	9/14/95	9/14/95	9/14/95	9/14/95	9/14/95	9/14/95
	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
PCBs													
PCB-1242	0.36 U	0.35 U	1.8 U	0.35 U	0.33 U	**85** J	0.35 U	0.39 U	0.35 U	0.79 J	0.36 U	0.37 U	0.37 U
PCB-1248	0.36 U	0.35 U	1.8 U	0.35 U	0.33 U	3.6 U	0.35 U	0.39 U	0.35 U	0.36 U	0.36 U	0.37 U	0.37 U
PCB-1254	1.6	2	6.3	2.6	0.33 U	45	0.35 U	0.39 U	0.35 U	0.37	0.36 U	0.37 U	0.37 U
PCB-1260	0.36 U	0.5 J	1.8 U	0.5 J	0.33 U	23	0.35 U	0.39 U	0.35 U	0.36 U	0.36 U	0.37 U	0.37 U
Total PCBs	2.14	2.85	9	3.45	0.66	**154.8**	0.7	0.78	0.7	1.52	0.72	0.74	0.74

Notes:
All results reported in mg/kg
All non-detected results reported at full detection limits
Bold concentrations exceed 60 ppm (IRM MPS of 50 ppm + 20%)
Q = Qualifier
U = Non-detect
J = Estimated
All post-excavation confirmatory samples were assigned a "CF" pre
All samples include a geographic identifier representing sub-areas '
"B" = bottom of excavation
"S" = sidewall of excavation
"O" = outside of excavation footprint
"C" = concrete core
"_S" = indicates a split sample with EPA, e.g., BS or bottom split

Table 4-5 Soil Vapor Results
Former Ciba-Geigy Facility
180 Mill Street
Cranston, RI

AECOM

	sys_loc_code	SG-1	SG-2	SG-3	SG-4	SG-4
	sample_date	6/14/2012	6/14/2012	6/14/2012	7/25/2012	7/25/2012
	sys_sample_code	SG-1_061412-1	SG-2_061412-1	SG-3_061412-1	SG-4-072512-1	SG-4-072512-2 Duplicate
	lab_sdg	12F0591	12F0591	12F0591	12G0896	12G0896
Chemical name	**Unit**					
1,1,1-TRICHLOROETHANE (TCA)	ug/m3	3.0	0.67	< 0.55 U	< 0.55 U	< 0.55 U
1,1,2,2-TETRACHLOROETHANE	ug/m3	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	< 0.77 U	< 0.77 U	< 0.77 U	< 0.77 U	< 0.77 U
1,1,2-TRICHLOROETHANE	ug/m3	< 0.55 U	< 0.55 U	< 0.55 U	< 0.55 U	< 0.55 U
1,1-DICHLOROETHANE	ug/m3	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
1,1-DICHLOROETHENE	ug/m3	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
1,2,4-TRICHLOROBENZENE	ug/m3	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
1,2,4-TRIMETHYLBENZENE	ug/m3	7.5	6.0	6.6	< 0.49 U	< 0.49 U
1,2-DIBROMOETHANE (EDB)	ug/m3	< 0.77 U	< 0.77 U	< 0.77 U	< 0.77 U	< 0.77 U
1,2-DICHLOROBENZENE	ug/m3	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,2-DICHLOROETHANE	ug/m3	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
1,2-DICHLOROPROPANE	ug/m3	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U
1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	ug/m3	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U
1,3,5-TRIMETHYLBENZENE	ug/m3	1.7	1.3	1.4	< 0.49 U	< 0.49 U
1,3-BUTADIENE	ug/m3	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
1,3-DICHLOROBENZENE	ug/m3	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,4-DICHLOROBENZENE	ug/m3	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U	< 0.60 U
1,4-Dioxane	ug/m3	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
2-BUTANONE (MEK)	ug/m3	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
2-HEXANONE	ug/m3	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
2-METHYLNAPHTHALENE	ug/m3	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
4-ETHYLTOLUENE	ug/m3	2.2	1.8	1.7	< 0.49 U	< 0.49 U
4-METHYL-2-PENTANONE (MIBK)	ug/m3	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
ACETONE	ug/m3	< 9.5 U	21	< 9.5 U	16	15
BENZENE	ug/m3	0.45	< 0.32 U	< 0.32 U	< 0.32 U	< 0.32 U
BENZYL CHLORIDE	ug/m3	< 0.52 U	< 0.52 U	< 0.52 U	< 0.52 U	< 0.52 U
BROMODICHLOROMETHANE	ug/m3	< 0.67 U	5.0	< 0.67 U	< 0.67 U	< 0.67 U
BROMOFORM	ug/m3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
BROMOMETHANE	ug/m3	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
CARBON DISULFIDE	ug/m3	< 3.1 U	< 3.1 U	< 3.1 U	< 3.1 U	< 3.1 U
CARBON TETRACHLORIDE	ug/m3	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U
CHLOROBENZENE	ug/m3	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U
CHLOROETHANE	ug/m3	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U
CHLOROFORM	ug/m3	4.0	180	0.80	< 0.49 U	< 0.49 U
CHLOROMETHANE	ug/m3	< 0.21 U	0.38	< 0.21 U	0.99	0.91
CIS-1,2-DICHLOROETHENE	ug/m3	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
CIS-1,3-DICHLOROPROPENE	ug/m3	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U
CYCLOHEXANE	ug/m3	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
DIBROMOCHLOROMETHANE	ug/m3	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U
DICHLORODIFLUOROMETHANE	ug/m3	3.0	2.8	2.8	2.3	2.2
ETHANOL	ug/m3	< 7.5 U	21	< 7.5 U	< 7.5 U	< 7.5 U
ETHYL ACETATE	ug/m3	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
ETHYLBENZENE	ug/m3	3.1	1.6	2.2	< 0.43 U	< 0.43 U
HEXACHLORO-1,3-BUTADIENE	ug/m3	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U
HEXANE	ug/m3	< 14 U	< 14 U	< 14 U	< 14 U	< 14 U
ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID	ug/m3	< 9.8 U	< 9.8 U	< 9.8 U	< 9.8 U	< 9.8 U
M/P-XYLENE	ug/m3	14	8.0	10	< 0.87 U	< 0.87 U
METHYL TERT-BUTYL ETHER	ug/m3	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
METHYLENE CHLORIDE	ug/m3	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U
NAPHTHALENE	ug/m3	3.8	3.7	3.9	< 0.52 U	< 0.52 U
N-HEPTANE	ug/m3	0.45	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
O-XYLENE	ug/m3	3.8	2.2	2.8	< 0.43 U	< 0.43 U
PROPYLENE (PROPENE)	ug/m3	< 6.9 U	< 6.9 U	< 6.9 U	< 6.9 U	< 6.9 U
STYRENE	ug/m3	0.53	< 0.43 U	< 0.43 U	< 0.43 U	< 0.43 U
TETRACHLOROETHENE (PCE)	ug/m3	6.0	6.6	5.9	< 0.68 U	< 0.68 U
TETRAHYDROFURAN	ug/m3	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U	< 0.29 U
TOLUENE	ug/m3	11	4.4	7.5	< 0.38 U	0.69
TRANS-1,2-DICHLOROETHENE	ug/m3	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U
TRANS-1,3-DICHLOROPROPENE	ug/m3	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U
TRICHLOROETHYLENE	ug/m3	< 0.54 U	< 0.54 U	< 0.54 U	< 0.54 U	< 0.54 U
TRICHLOROFLUOROMETHANE	ug/m3	2.2	1.9	1.9	1.1	0.93
VINYL ACETATE	ug/m3	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U	< 0.70 U
VINYL CHLORIDE	ug/m3	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U

Notes:
ug/m3= micrograms per cubic meter
U = not detected above report detection limits

Figures

Map Location

Site Locus

Former Ciba-Geigy
Cranston, Rhode Island

0 500 1,000 2,000 3,000 4,000 5,000 6,000 Feet

0 100 200 400 600 800 1,000 1,200 1,400 1,600 Meters

Map Projection: State Plane, NAD 83, Feet.
Image Source: USGS Topographic Quadrangle: Providence, RI.

Scale: 1:24,000

AECOM

Figure 1-1

Date: June 2014

Project #: 60163799.8

J:\Indl_Service\Project Files\BASF-0760\Cranston RI\9_Permitting\ACOE\GIS\Projects\Figure 1 Site Locus.mxd

J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\Figure_2_Aerial_Photograph_Presentation.mxd

AECOM

0 50 100 Feet

N W E S

FORMER CIBA-GEIGY FACILITY AND BELLEFONT POND PROPERTY

6013799.10

SITE PLAN

DATE: 05/01/12 | DRWN: J.E.B.

FIGURE 1-2

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_2-1_Historic_Building_Layout_and_Subsurface_Structures.mxd

AECOM

0 40 80 Feet

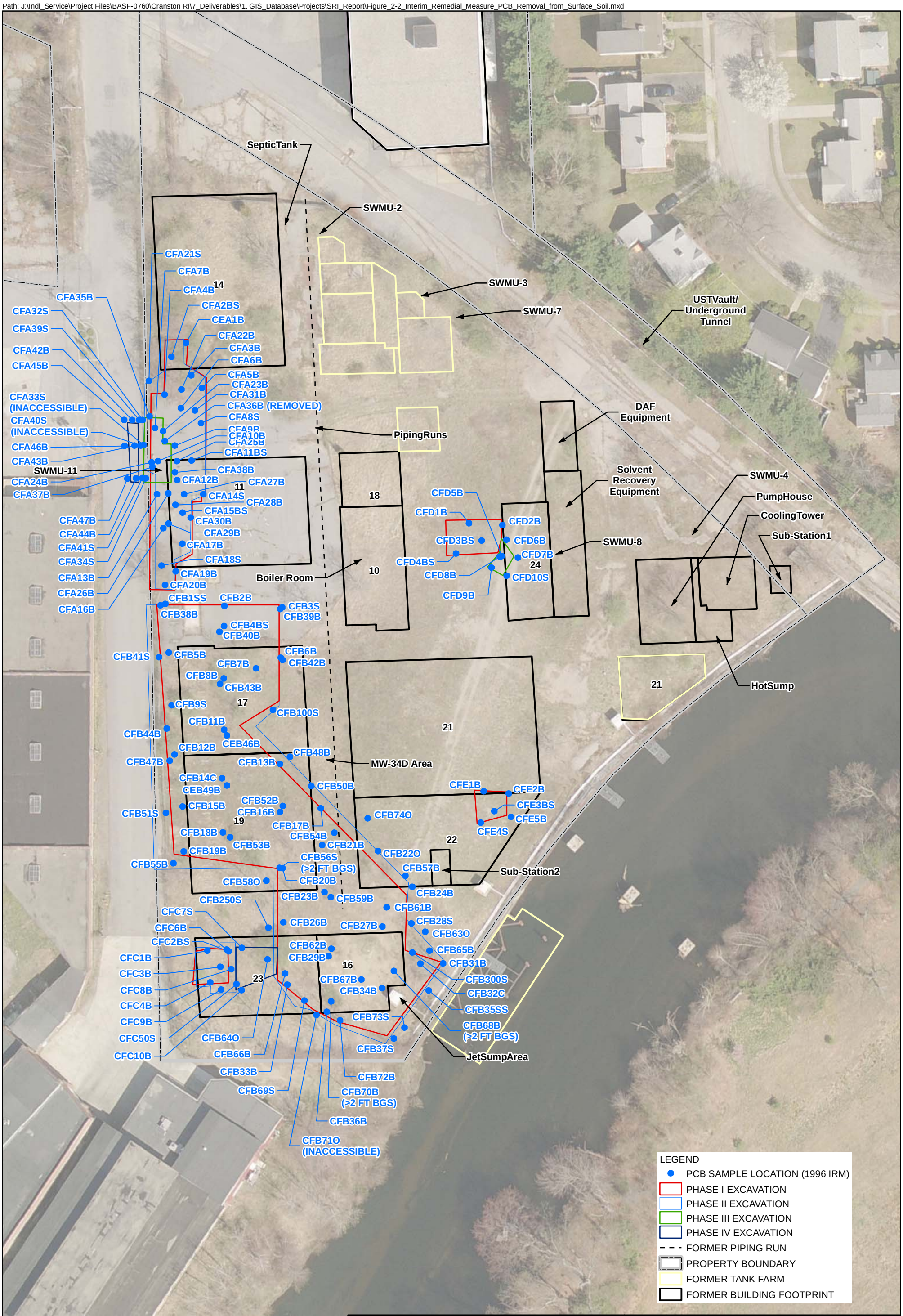
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

HISTORIC BUILDING LAYOUT AND SUBSURFACE STRUCTURES

DATE: 06/14	DRWN: J.E.B.			FIGURE 2-1

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_2-2_Interim_Remedial_Measure_PCB_Removal_from_Surface_Soil.mxd



AECOM

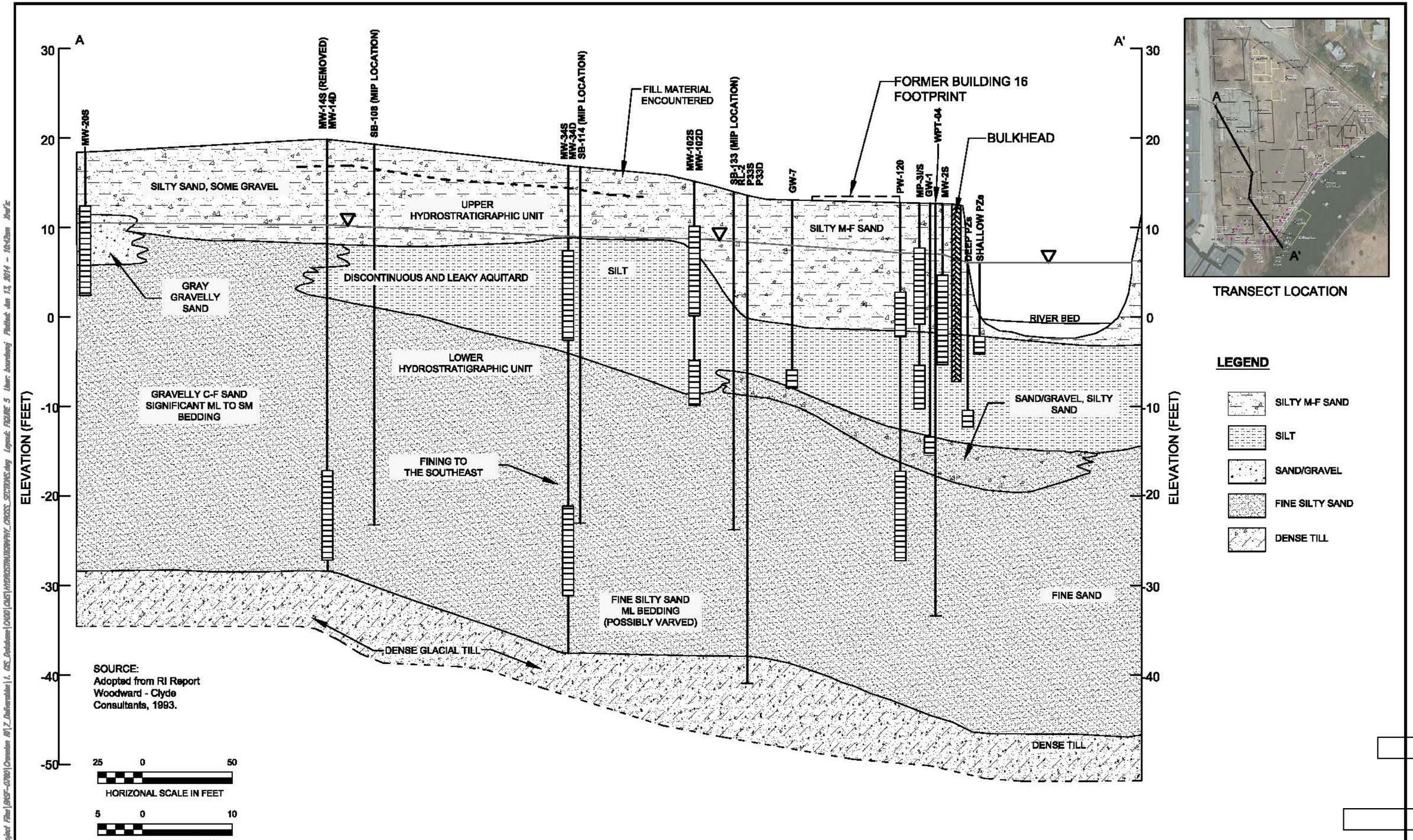
0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

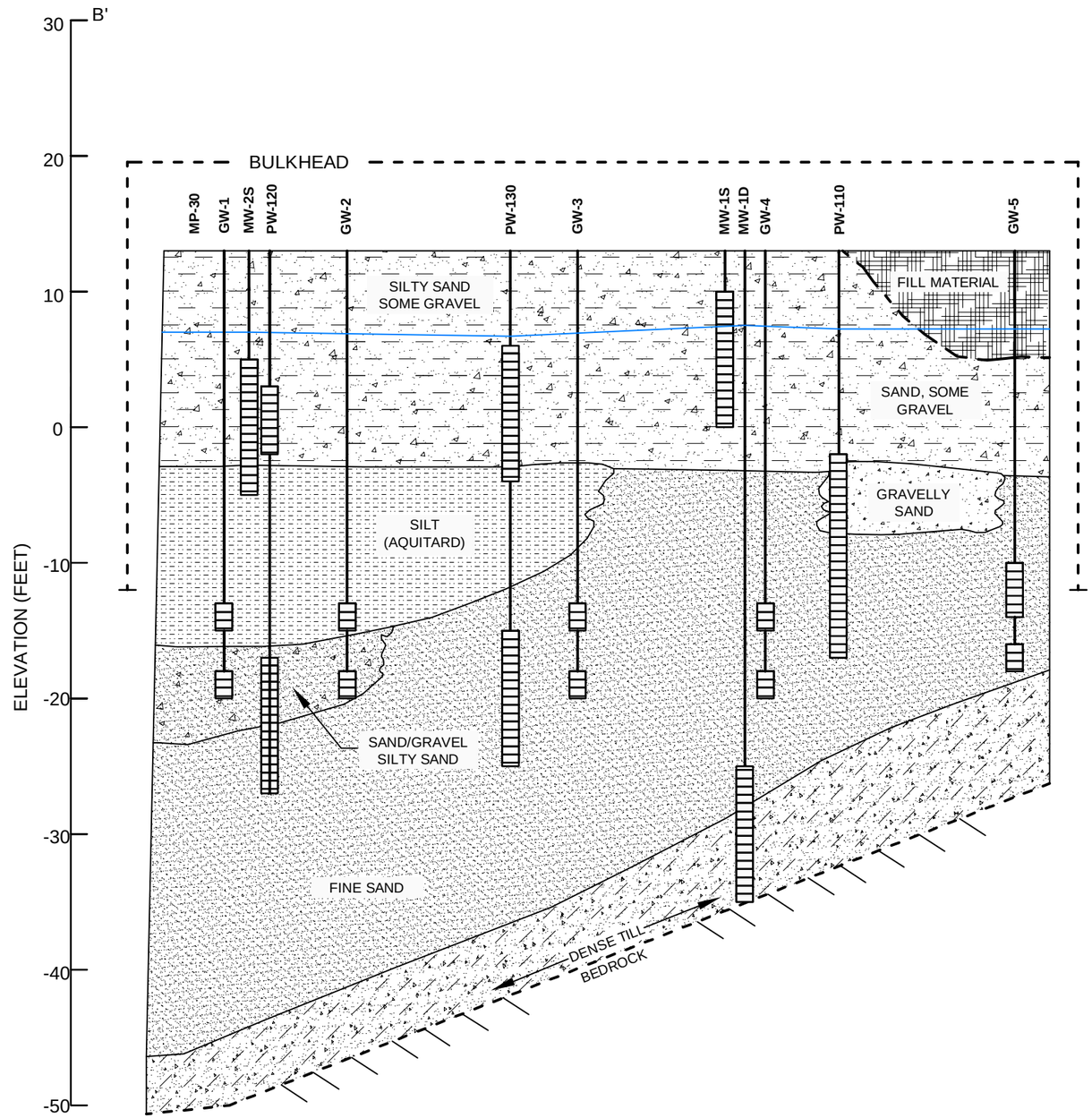
INTERIM REMEDIAL MEASURE
PCB REMOVAL FROM SURFACE SOIL

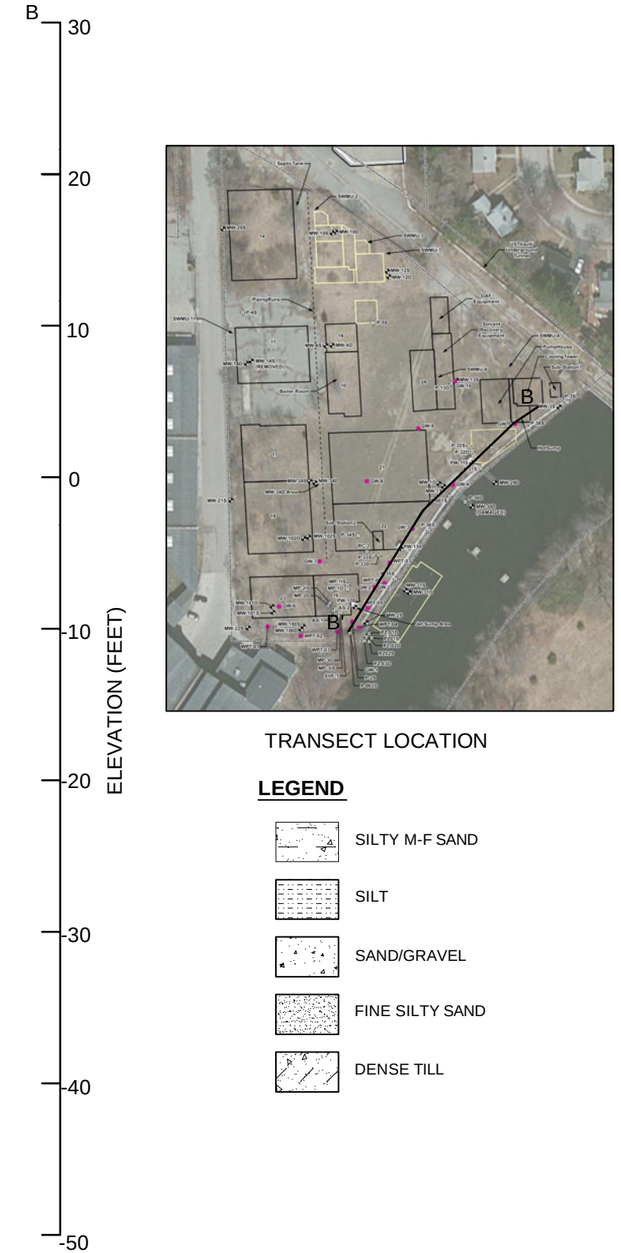
DATE: 06/14	DRWN: J.E.B.		FIGURE 2-2



AECOM

FORMER CIBA-GEIGY CRANSTON, RI 60163799.8	HYDROSTRATIGRAPHIC CROSS-SECTION A-A'
DATE: 06/13/2014 DRWN: AES	FIGURE 2-3





TRANSECT LOCATION

LEGEND

- SILTY M-F SAND
- SILT
- SAND/GRAVEL
- FINE SILTY SAND
- DENSE TILL

SOURCE:
Adopted from RI Report
Woodward - Clyde
Consultants, 1993.

25 0 50
HORIZONAL SCALE IN FEET

5 0 10
VERTICAL SCALE IN FEET

AECOM

FORMER CIBA-GEIGY CRANSTON, RI 60297249.1500			**HYDROSTRATIGRAPHIC CROSS-SECTION B'-B**
DATE: 06/13/2014	DRWN: AES		**FIGURE 2-4**

File: x:\Ind_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\CADD\CMS\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 2-4 User: bourdeau; Plotted: Jun 13, 2014 - 9:33am Xref's:

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_2-5A_Shallow_Potentiometric_Map_June_2012.mxd

AECOM

0 25 50 Feet

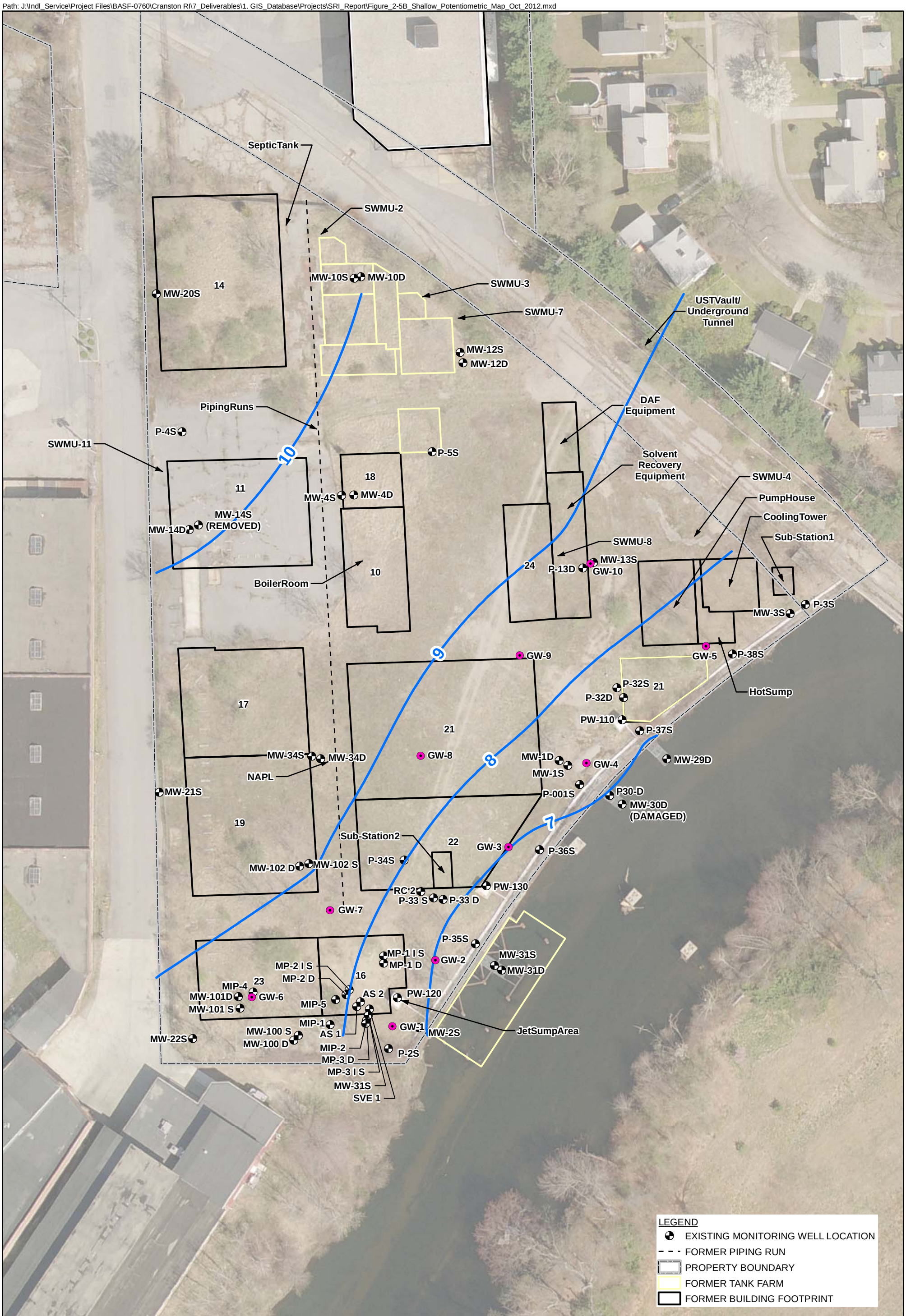
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

SHALLOW POTENTIOMETRIC MAP
JUNE 2012

DATE: 06/14	DRWN: J.E.B.			FIGURE 2-5A

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_2-5B_Shallow_Potentiometric_Map_Oct_2012.mxd



AECOM

0 25 50 Feet

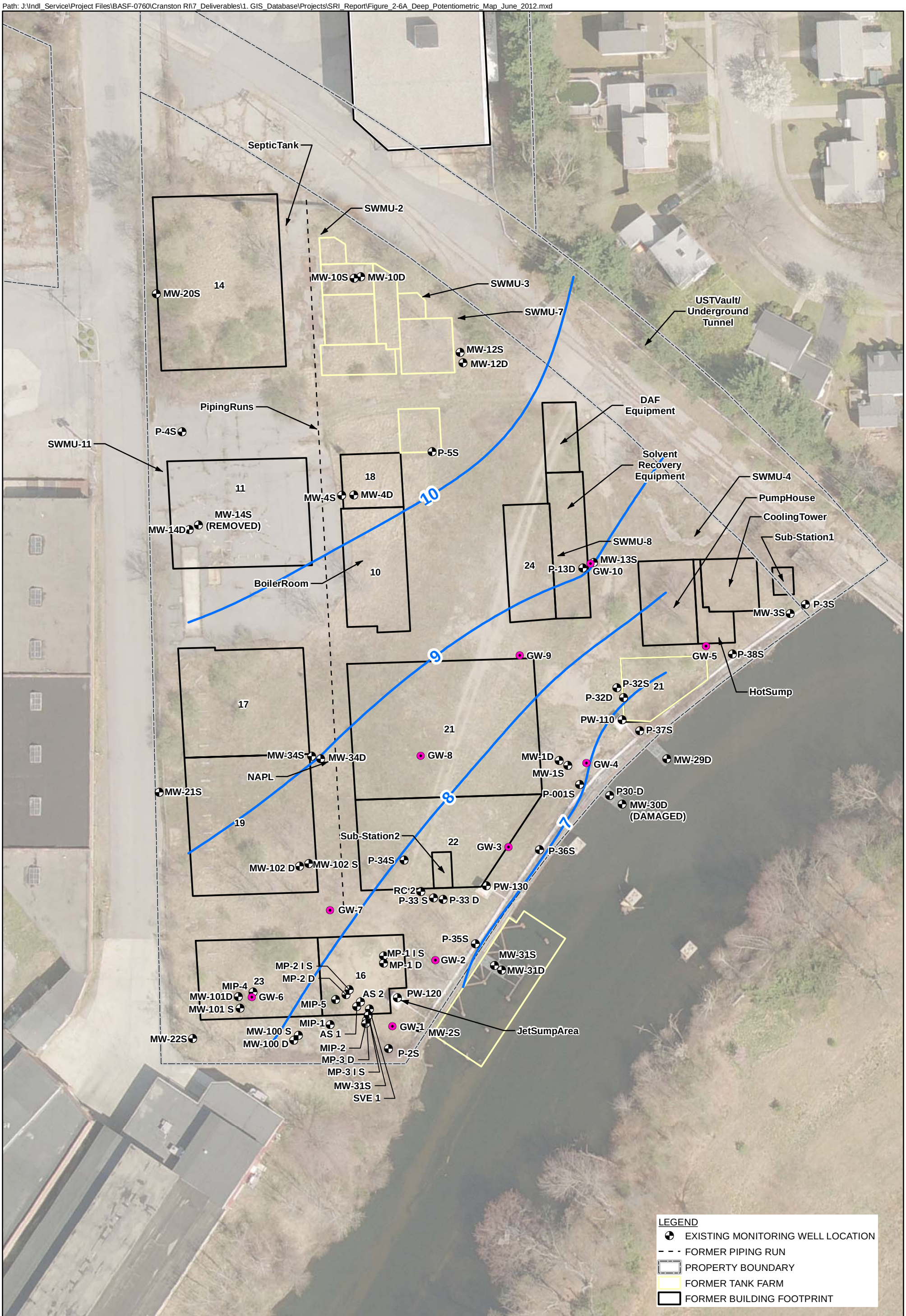
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

SHALLOW POTENTIOMETRIC MAP
OCTOBER 2012

DATE: 06/14	DRWN: J.E.B.			FIGURE 2-5B

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_2-6A_Deep_Potentiometric_Map_June_2012.mxd



AECOM

0 25 50 Feet

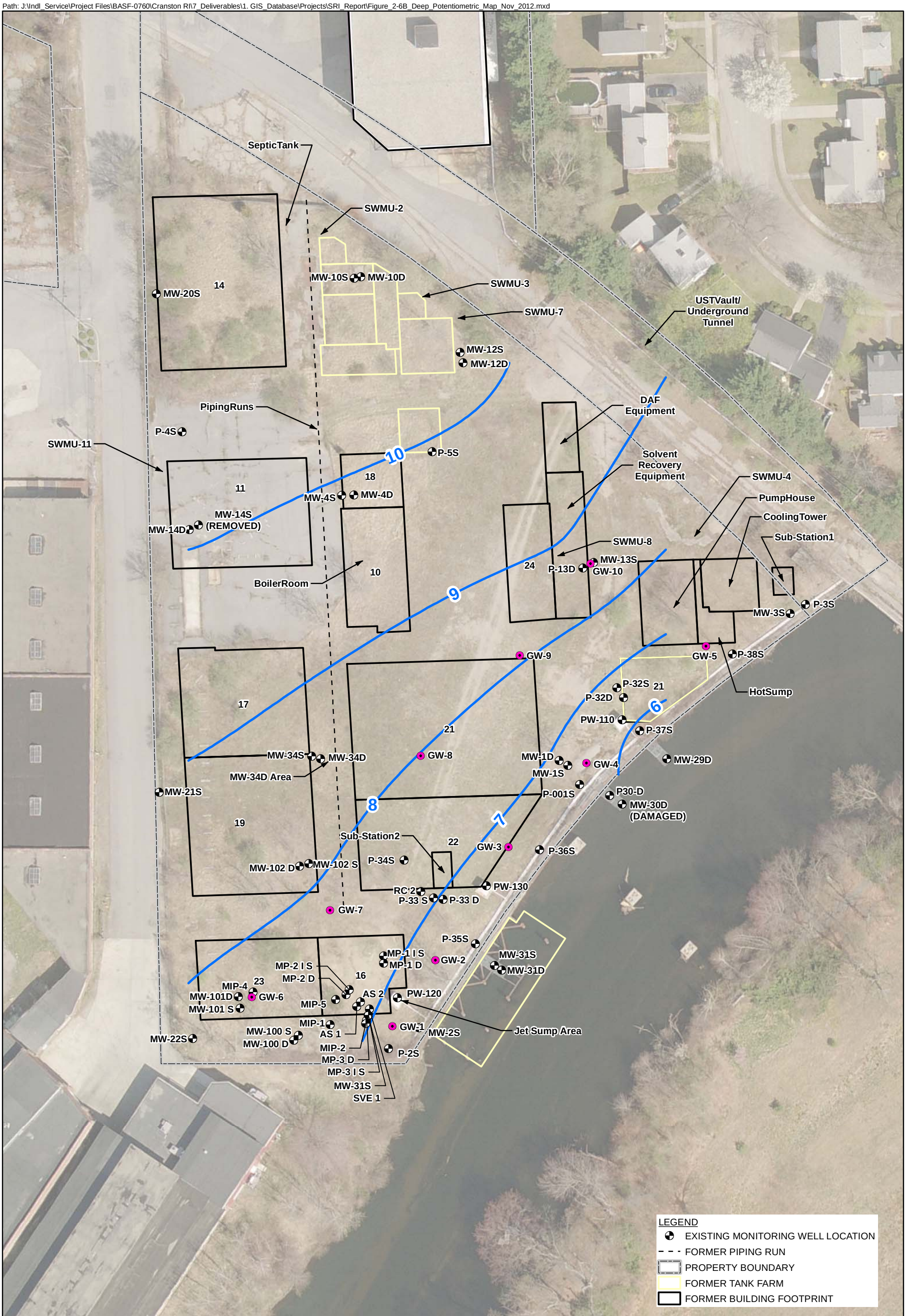
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

DEEP POTENTIOMETRIC MAP
JUNE 2012

DATE: 06/14	DRWN: J.E.B.			FIGURE 2-6A

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_2-6B_Deep_Potentiometric_Map_Nov_2012.mxd



AECOM

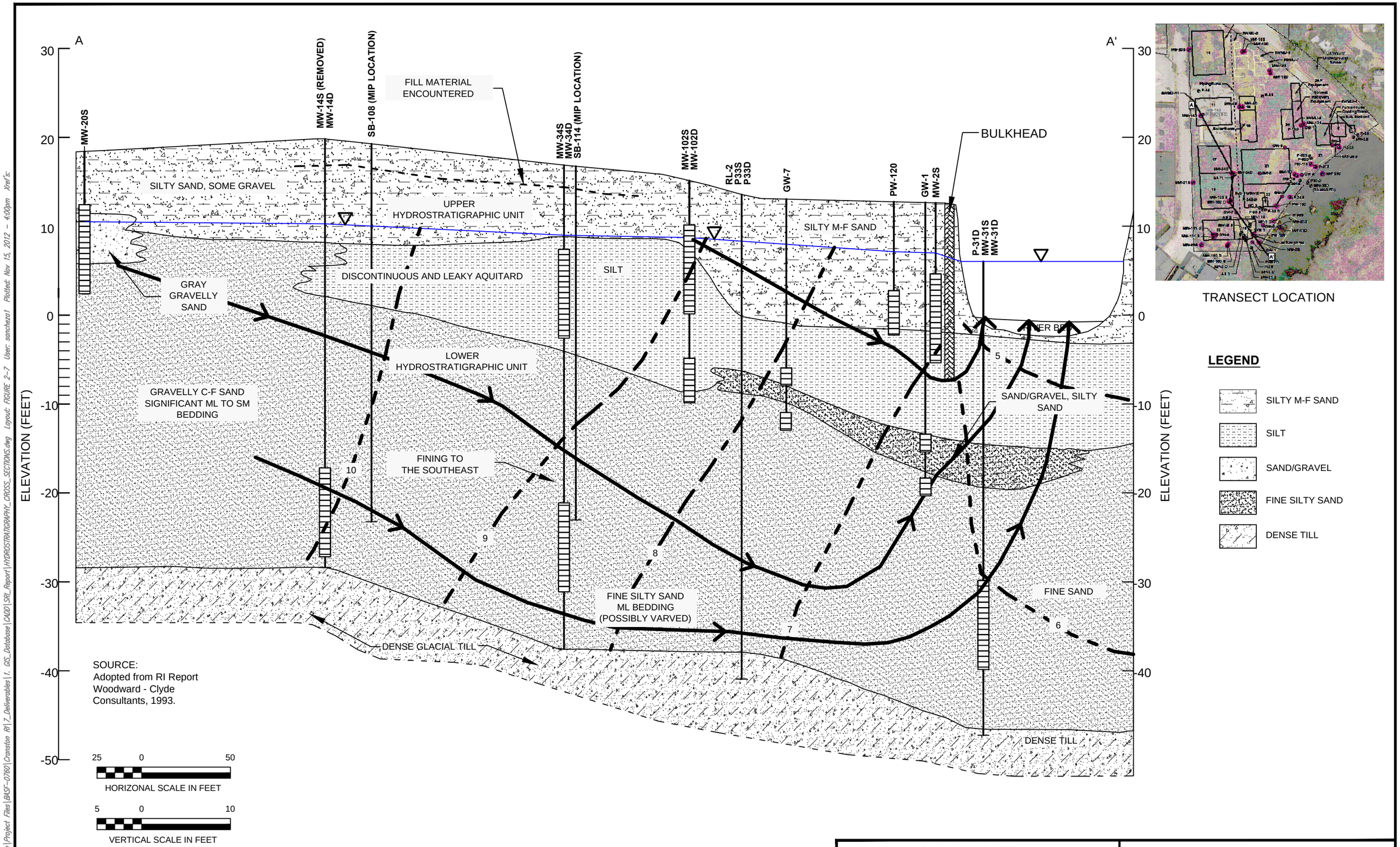
0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

DEEP POTENTIOMETRIC MAP
NOVEMBER 2012

DATE: 06/14	DRWN: J.E.B.			FIGURE 2-6B



FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

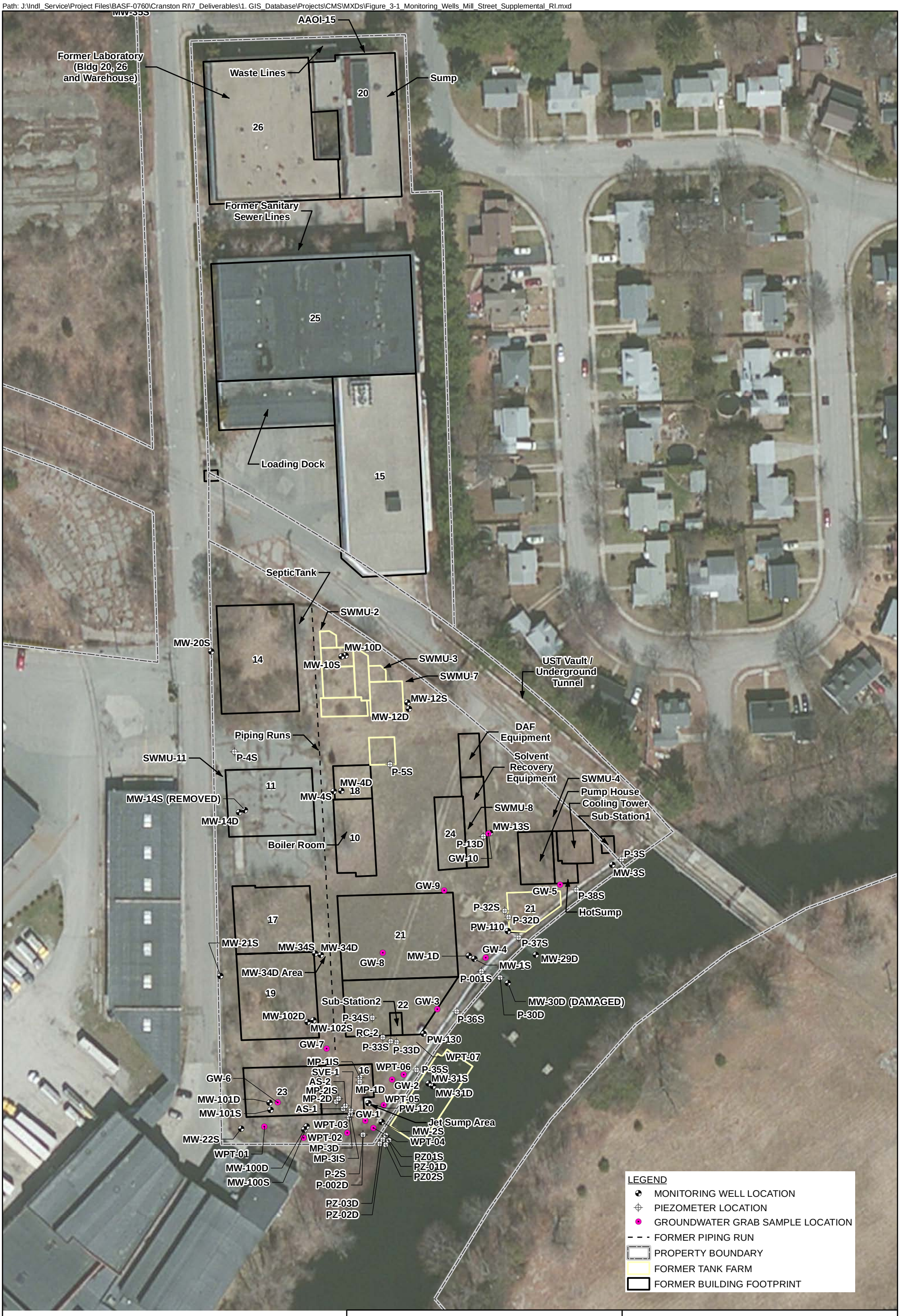
CROSS-SECTIONAL FLOW DIAGRAM
A-A'

DATE: 11/07/2012 | DRWN: AES

FIGURE 2-7

File: J:\Indl_Service\Project Files\BASF-0780\Cranston RI\Z_Deliverables\1. GIS_Database\CADD\SRL_Report\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 2-7 User: sanchea1 Plotted: Nov 15, 2012 - 4:00pm Xref's:

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\CMS\MXDs\Figure_3-1_Monitoring_Wells_Mill_Street_Supplemental_RI.mxd



AECOM

0 40 80 Feet

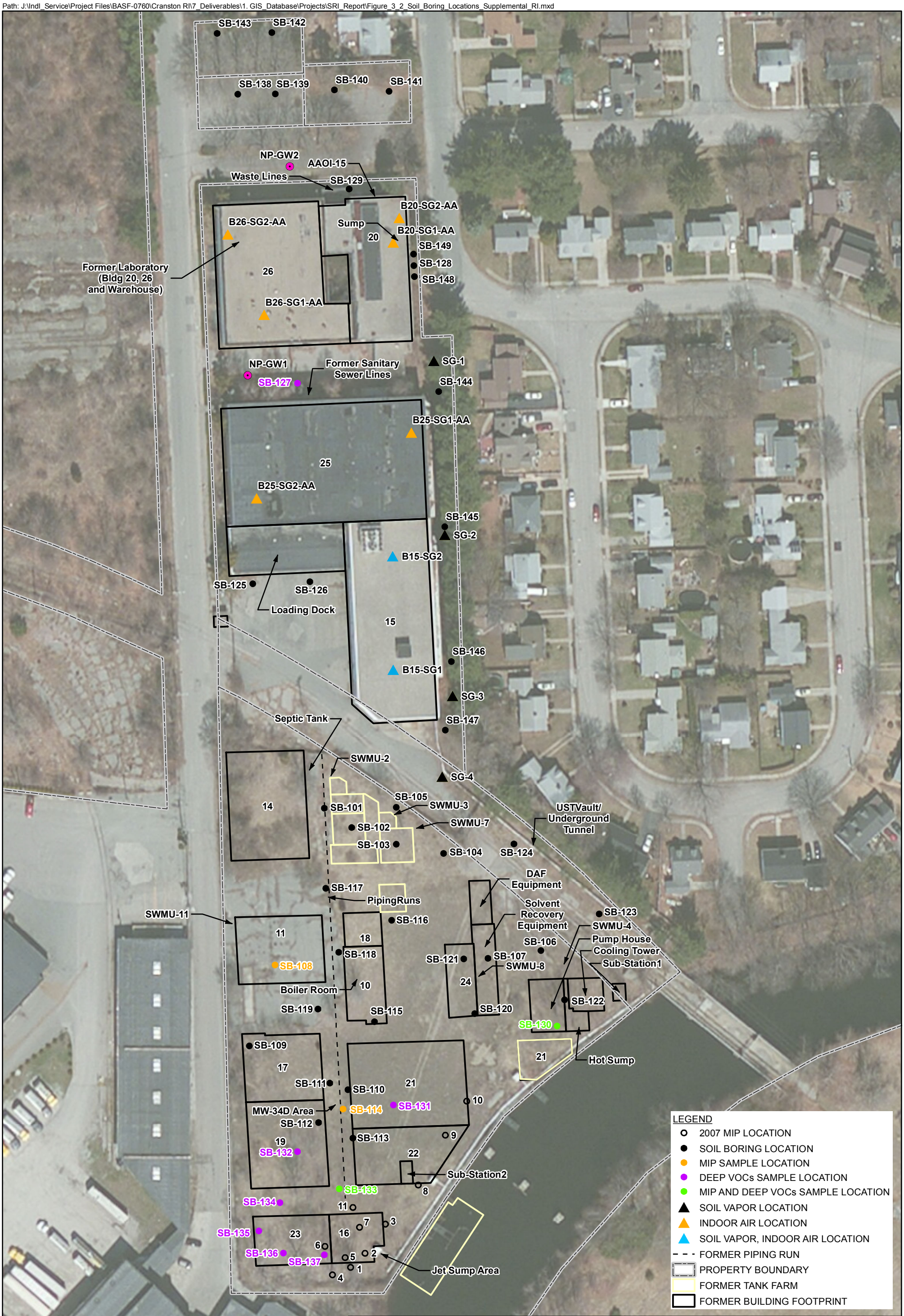
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

MONITORING WELLS
MILL STREET SUPPLEMENTAL RI

DATE: 06/14	DRWN: J.E.B.			FIGURE 3-1

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_3_2_Soil_Boring_Locations_Supplemental_RI.mxd



AECOM

0 40 80 Feet

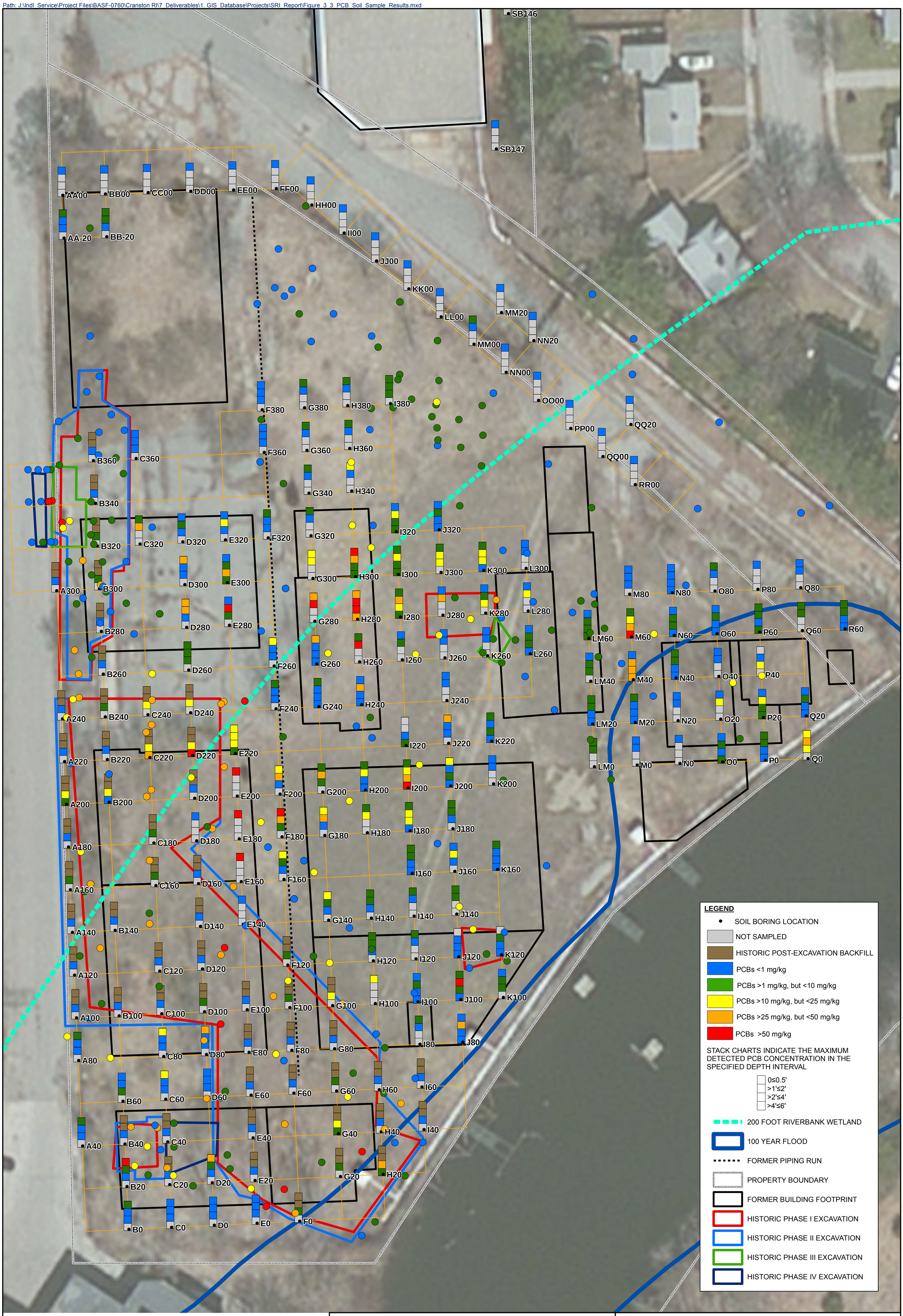
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60163799.8

SOIL BORING LOCATIONS
SUPPLEMENTAL RI

DATE: 05/20/2014 | DRWN: J.E.B. | FIGURE 3-2

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_3_3_PCB_Soil_Sample_Results.mxd



AECOM

0 20 40 Feet

N W E S

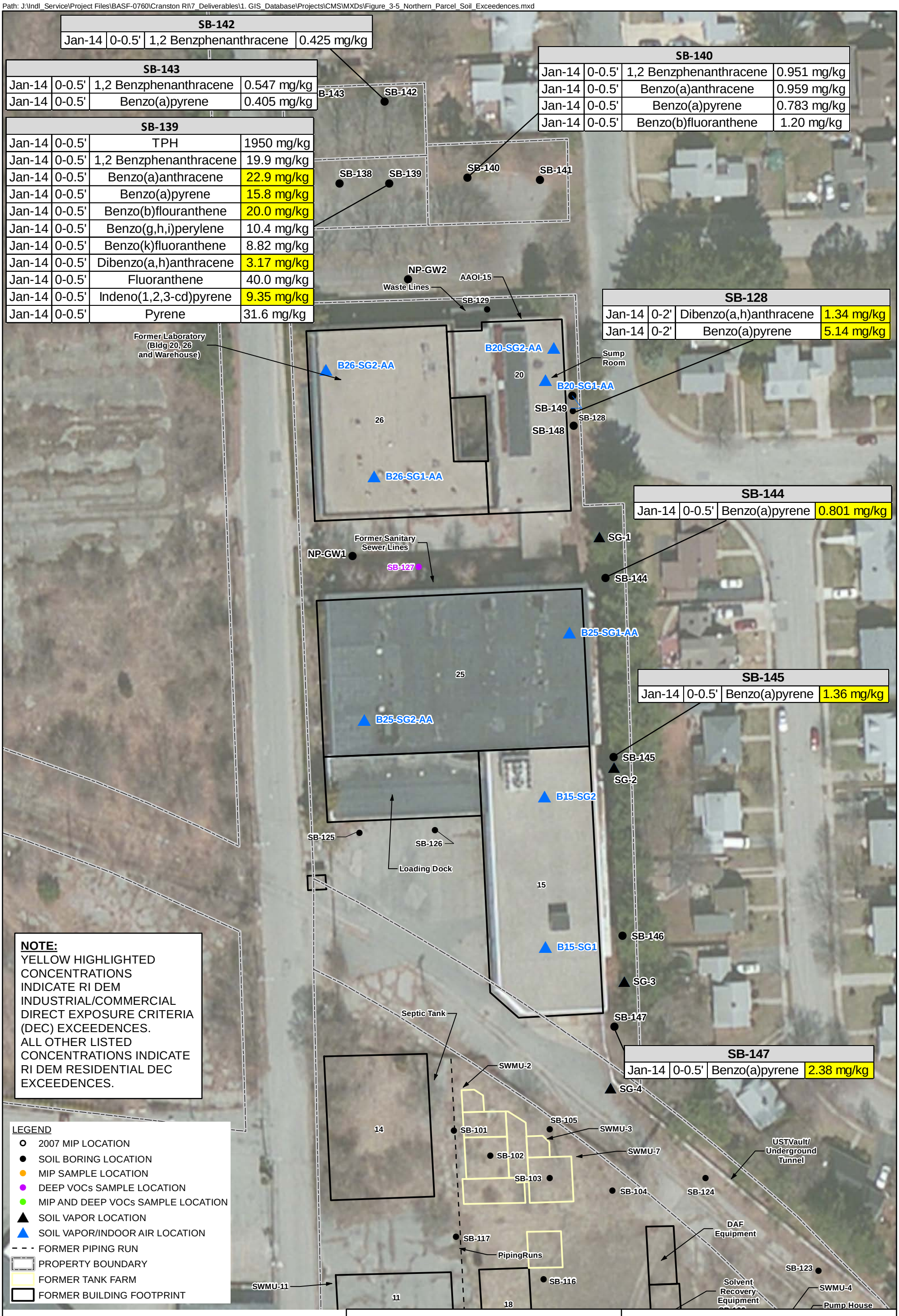
FORMER CIBA-GEIGY
CRANSTON, RI

60297249.1200

PCB SOIL SAMPLE RESULTS
WITH HISTORICAL DATA

DATE: 03/19/2014	DRWN: J.E.B.		FIGURE 3-3

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\CMS\MXDs\Figure_3-5_Northern_Parcel_Soil_Exceedences.mxd



AECOM

0 30 60 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.500

NORTHERN PARCEL, SOIL EXCEEDENCES
180 MILL STREET

DATE: 3/5/2014 | DRWN: J.E.B.

FIGURE 3-4

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_1_Chlorobenzene_Deep.mxd

AECOM

0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

DEEP MONITORING WELLS (>20 FT BGS)
CHLOROBENZENE
SUPPLEMENTAL RI

DATE: 08/01/2014	DRWN: J.E.B.		FIGURE 4-1

Path: \\Uswtf1fp001\JOBS\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_2_1-2_Dichlorobenzene_Deep.mxd

AECOM

0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

DEEP MONITORING WELLS (>20 FT BGS)
1,2-DICHLOROBENZENE
SUPPLEMENTAL RI

DATE: 05/20/2014	DRWN: J.E.B.			FIGURE 4-2

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_3_2-Chlorotoluene_Deep.mxd

AECOM

0 25 50 Feet

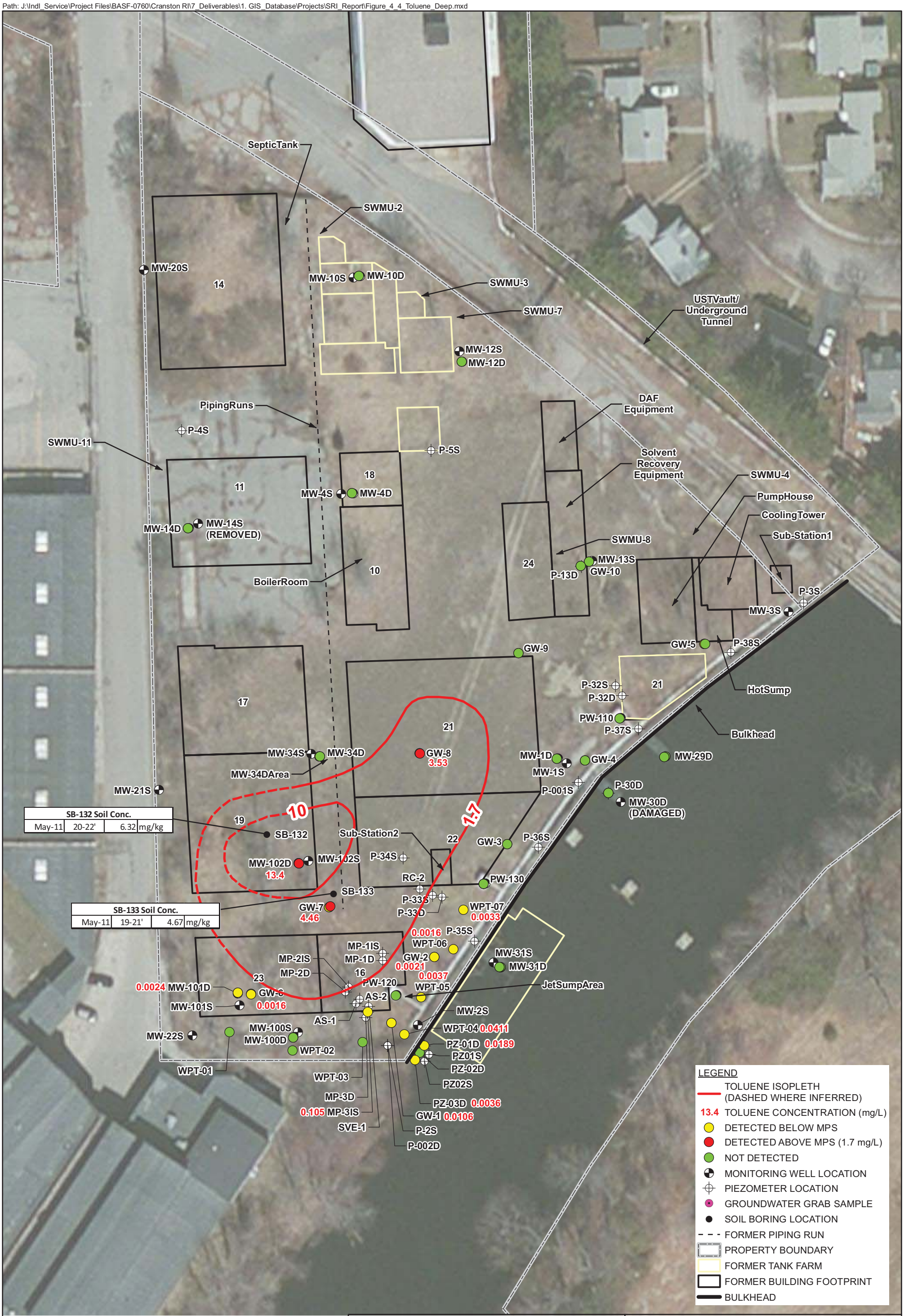
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

DEEP MONITORING WELLS (>20 FT BGS)
2-CHLOROTOLUENE
SUPPLEMENTAL RI

DATE: 08/01/2014 | DRWN: J.E.B. | FIGURE 4-3

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_4_Toluene_Deep.mxd



AECOM

0 25 50 Feet

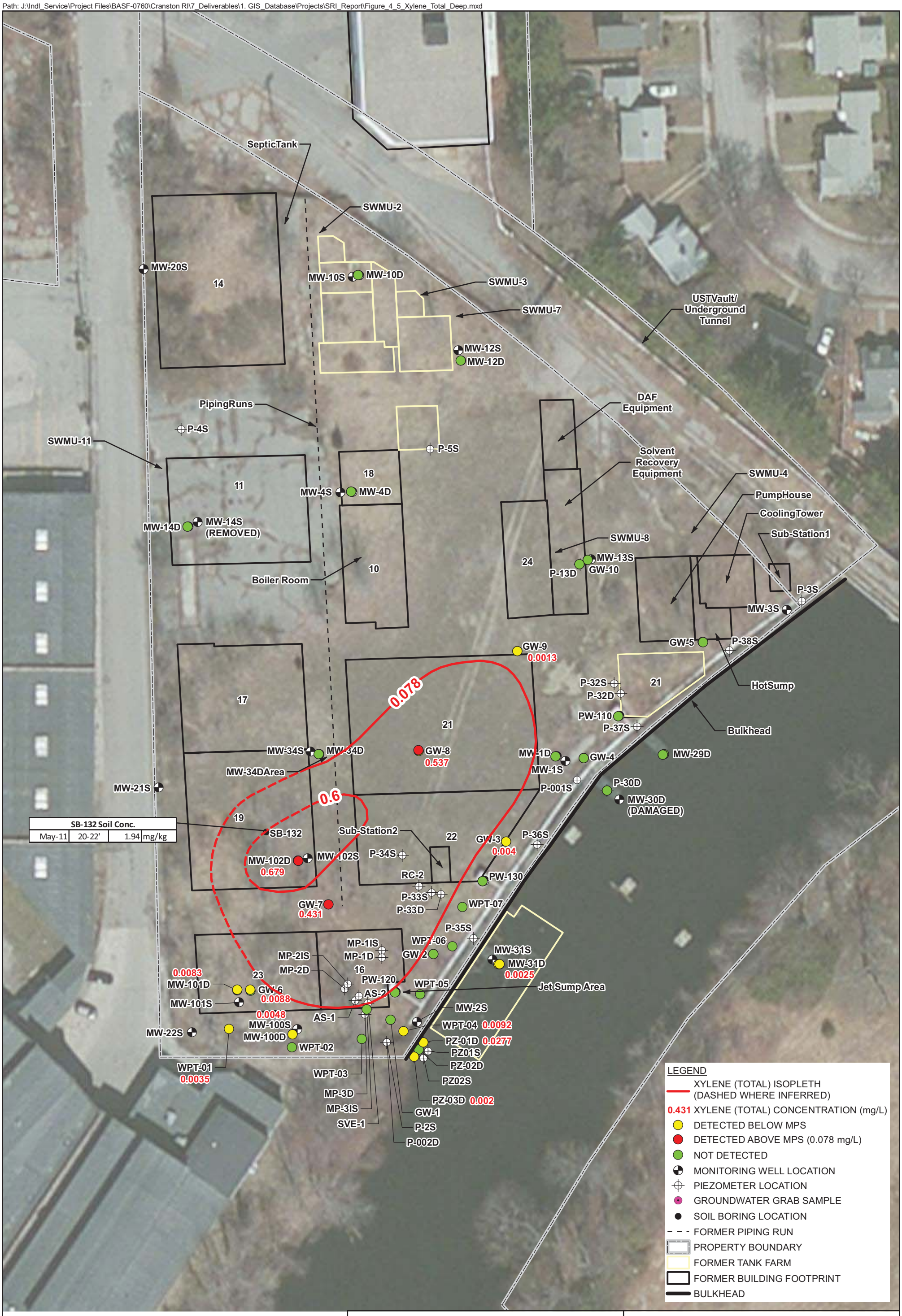
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

DEEP MONITORING WELLS (>20 FT BGS)
TOLUENE
SUPPLEMENTAL RI

DATE: 08/01/2014 | DRWN: J.E.B. | FIGURE 4-4

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_5_Xylene_Total_Deep.mxd



AECOM

0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

DEEP MONITORING WELLS (>20 FT BGS)
XYLENE (TOTAL)
SUPPLEMENTAL RI

DATE: 08/01/2014 | DRWN: J.E.B. | FIGURE 4-5

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_6_Chlorobenzene_Shallow.mxd

AECOM

0 25 50 Feet

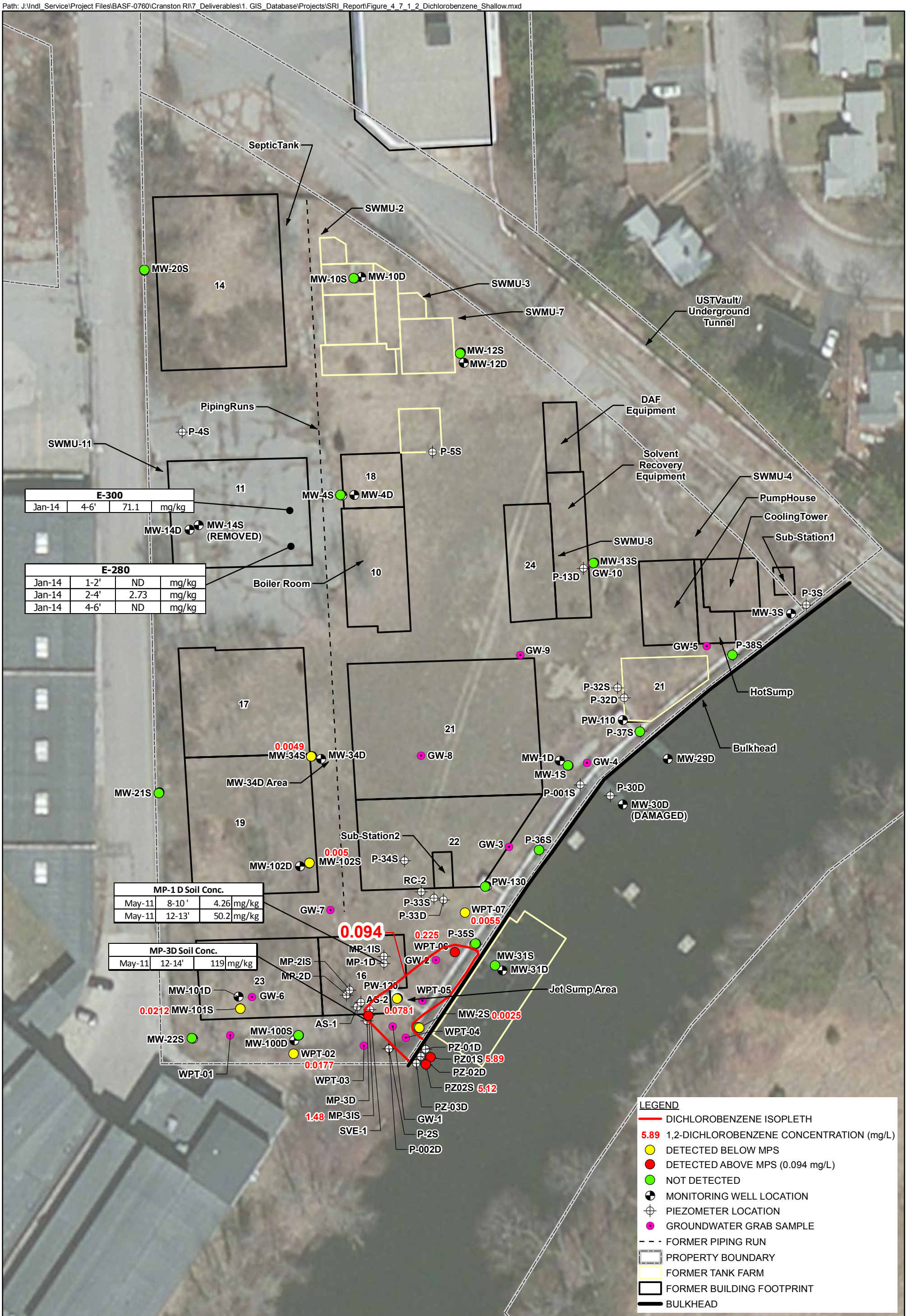
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

SHALLOW MONITORING WELLS (<20 FT BGS)
CHLOROBENZENE
SUPPLEMENTAL RI

DATE: 08/01/2014 | DRWN: J.E.B. | FIGURE 4-6

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_7_1_2_Dichlorobenzene_Shallow.mxd



AECOM

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

SHALLOW MONITORING WELLS (<20 FT BGS)
1,2-DICHLOROBENZENE
SUPPLEMENTAL RI

DATE: 05/20/2014 | DRWN: J.E.B. | FIGURE 4-7

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_8_2-Chlorotoluene_Shallow.mxd

AECOM

0 25 50 Feet

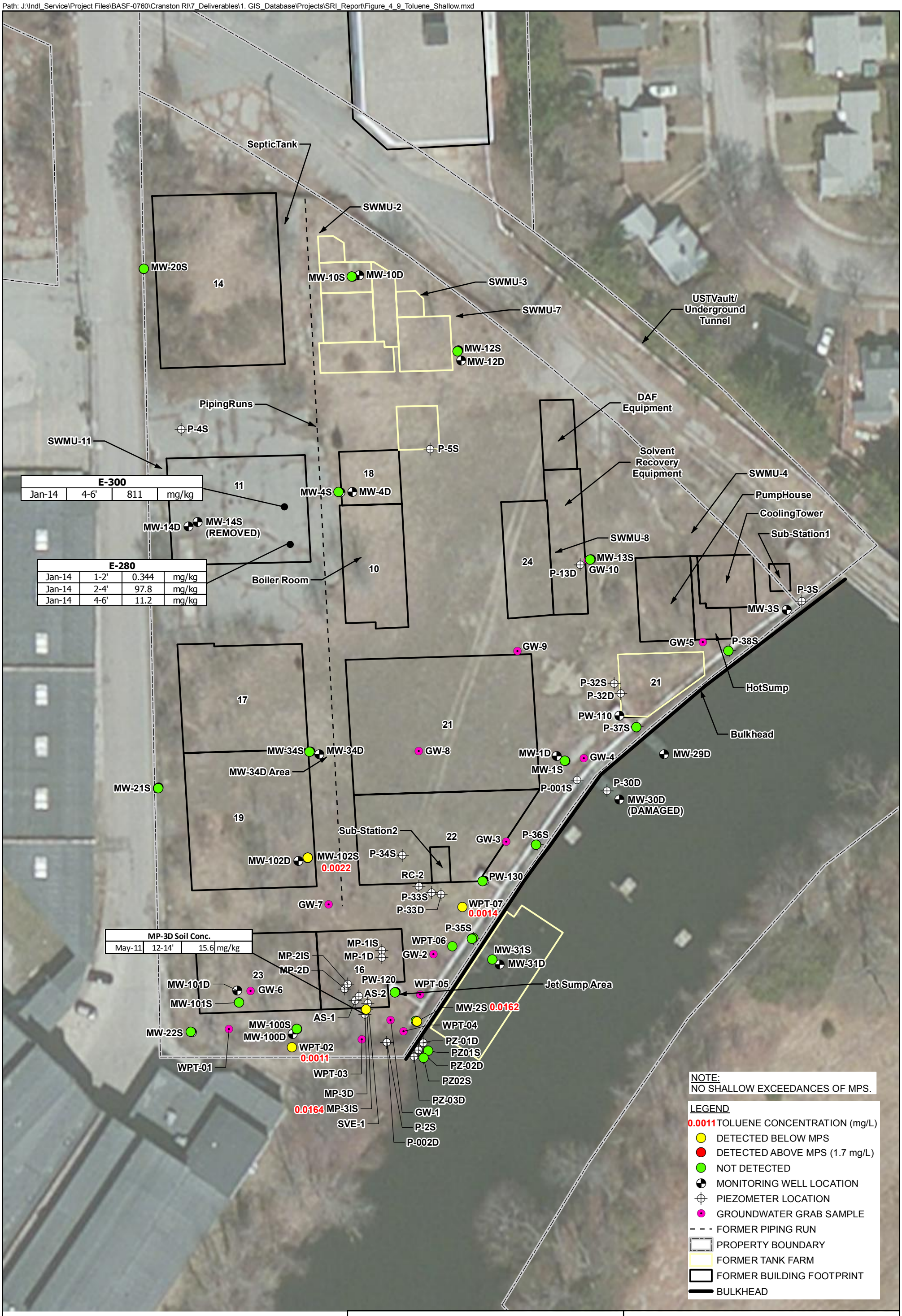
N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

SHALLOW MONITORING WELLS (<20 FT BGS)
2-CHLOROTOLUENE
SUPPLEMENTAL RI

DATE: 06/13/2014 | DRWN: J.E.B. | FIGURE 4-8

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_9_Toluene_Shallow.mxd



AECOM

0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

SHALLOW MONITORING WELLS (<20 FT BGS)
TOLUENE
SUPPLEMENTAL RI

DATE: 06/13/2014 | DRWN: J.E.B. | FIGURE 4-9

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_10_Xylene_Total_Shallow.mxd

AECOM

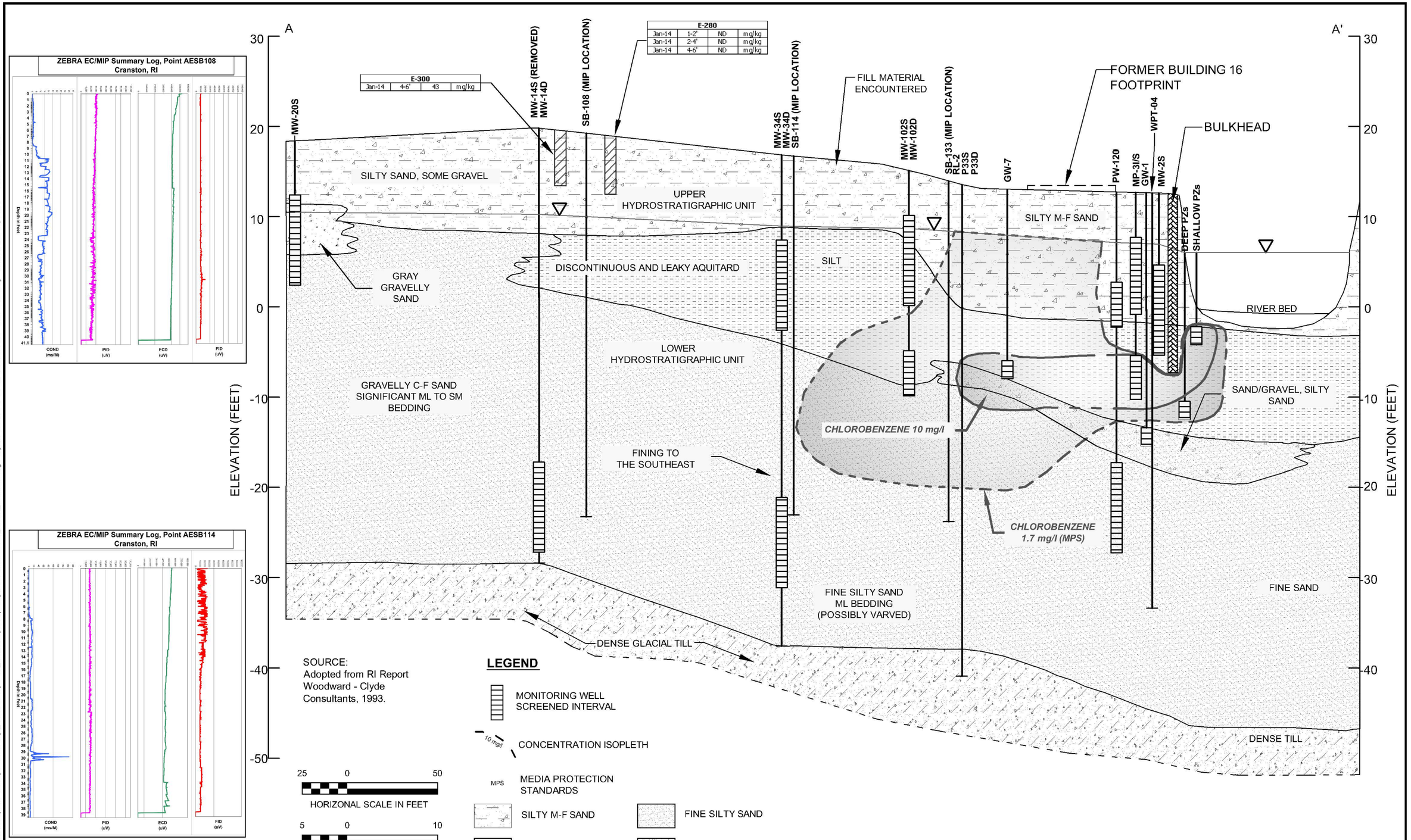
0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

SHALLOW MONITORING WELLS (<20 FT BGS)
XYLENE (TOTAL)
SUPPLEMENT RI

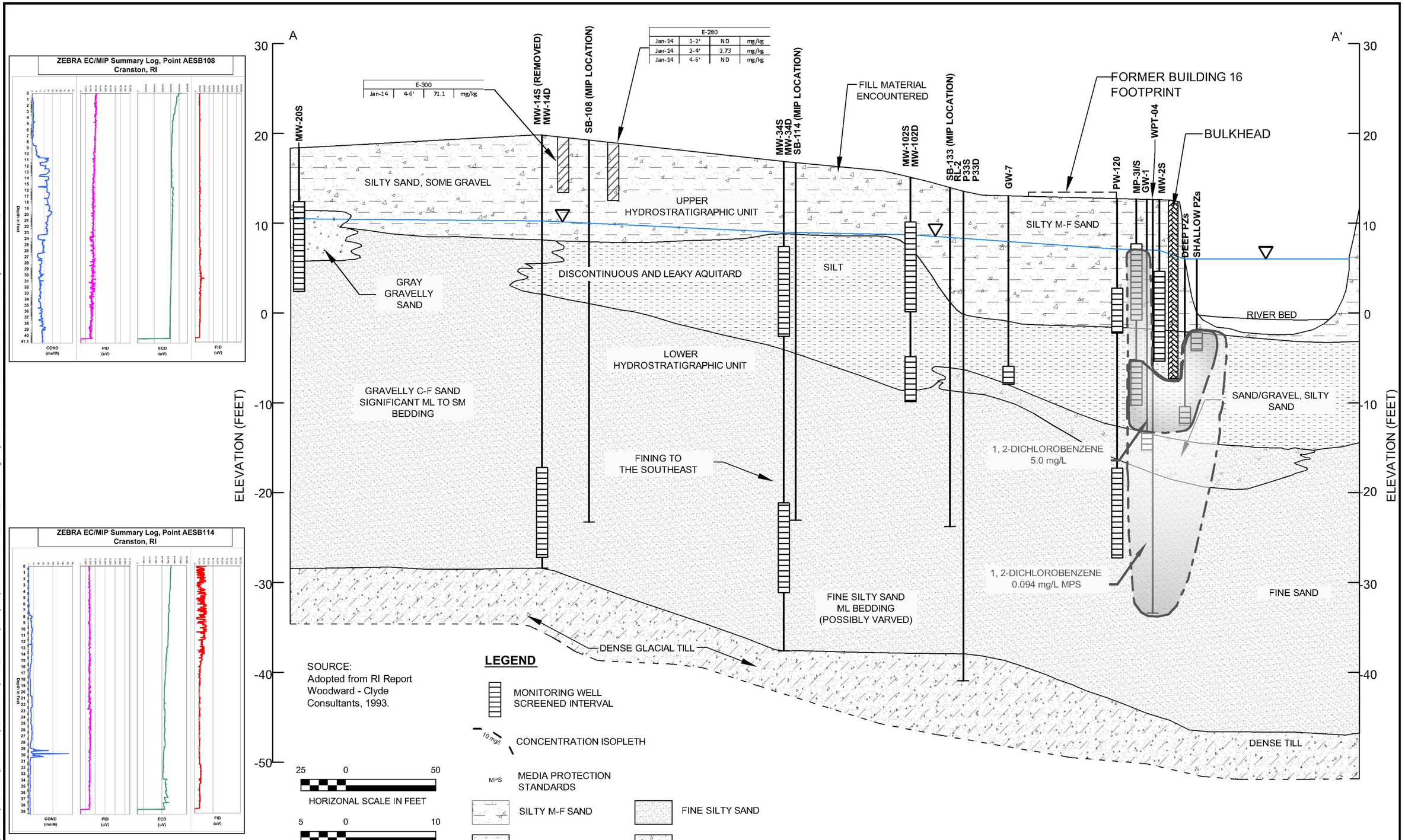
DATE: 05/20/2014 | DRWN: J.E.B. | FIGURE 4-10



AECOM

FORMER CIBA-GEIGY CRANSTON, RI 60297249.1200	HYDROSTRATIGRAPHIC CROSS-SECTION A-A' CHLOROBENZENE CONCENTRATIONS IN GROUNDWATER
DATE: 06/13/2014 DRWN: AES	FIGURE 4-11

File: J:\Indl_Service\Project Files\BASF-07867\Cranston RI\7_Deliverables\1. GIS_Database\CADD\CMS\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 4-11 CHLOROBENZENE User: bourdeau Plotted: Jun 13, 2014 - 10:00am Xref's:

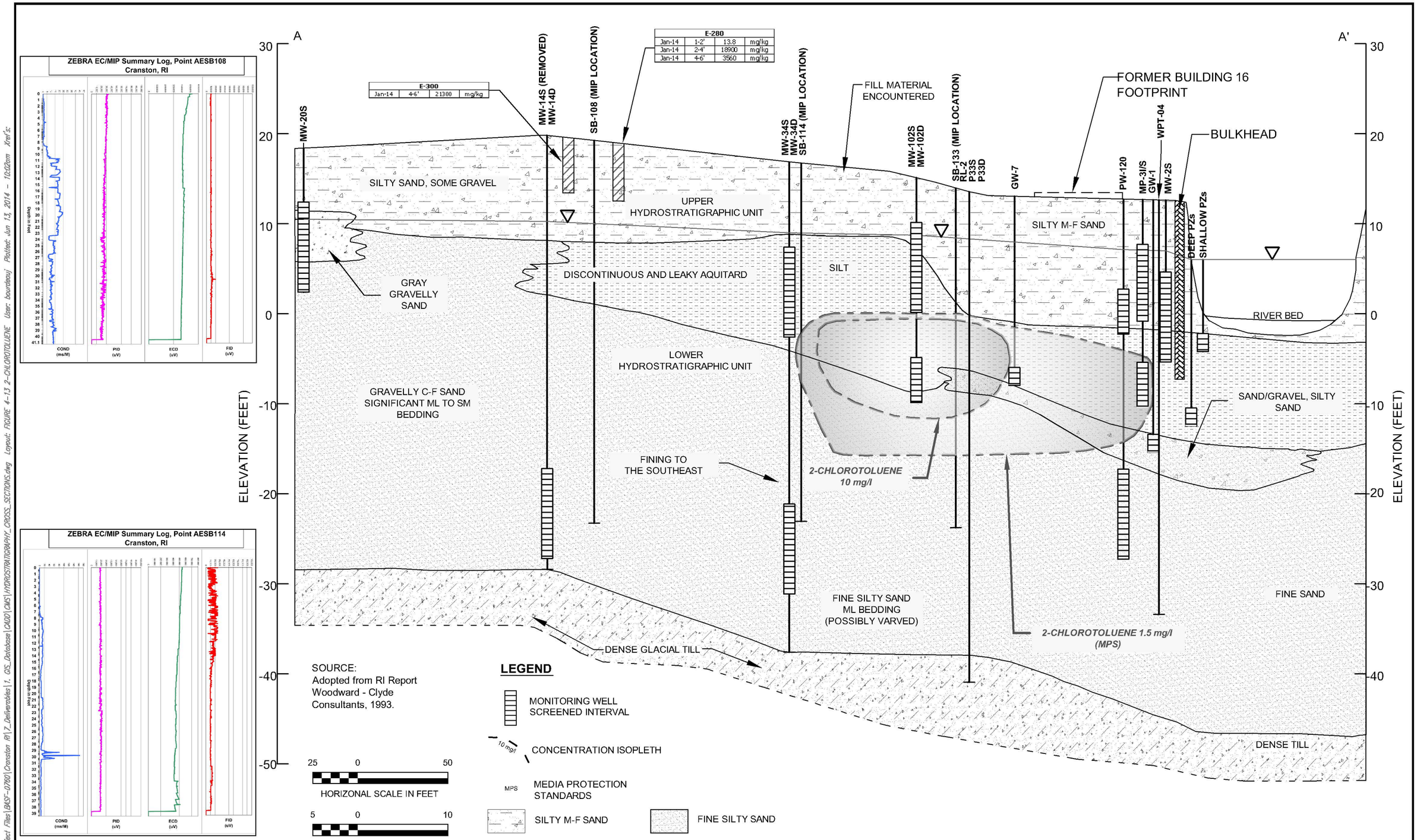


FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

HYDROSTRATIGRAPHIC CROSS-SECTION A-A'
1, 2-DICHLOROBENZENE CONCENTRATIONS IN GROUNDWATER

DATE: 06/13/2014 | DRWN: AES | **FIGURE 4-12**

File: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\CADD\CMS\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 4-12 DICHLOROBENZENE User: bourdeauj Plotted: Jun 13, 2014 - 10:01am Xref's:



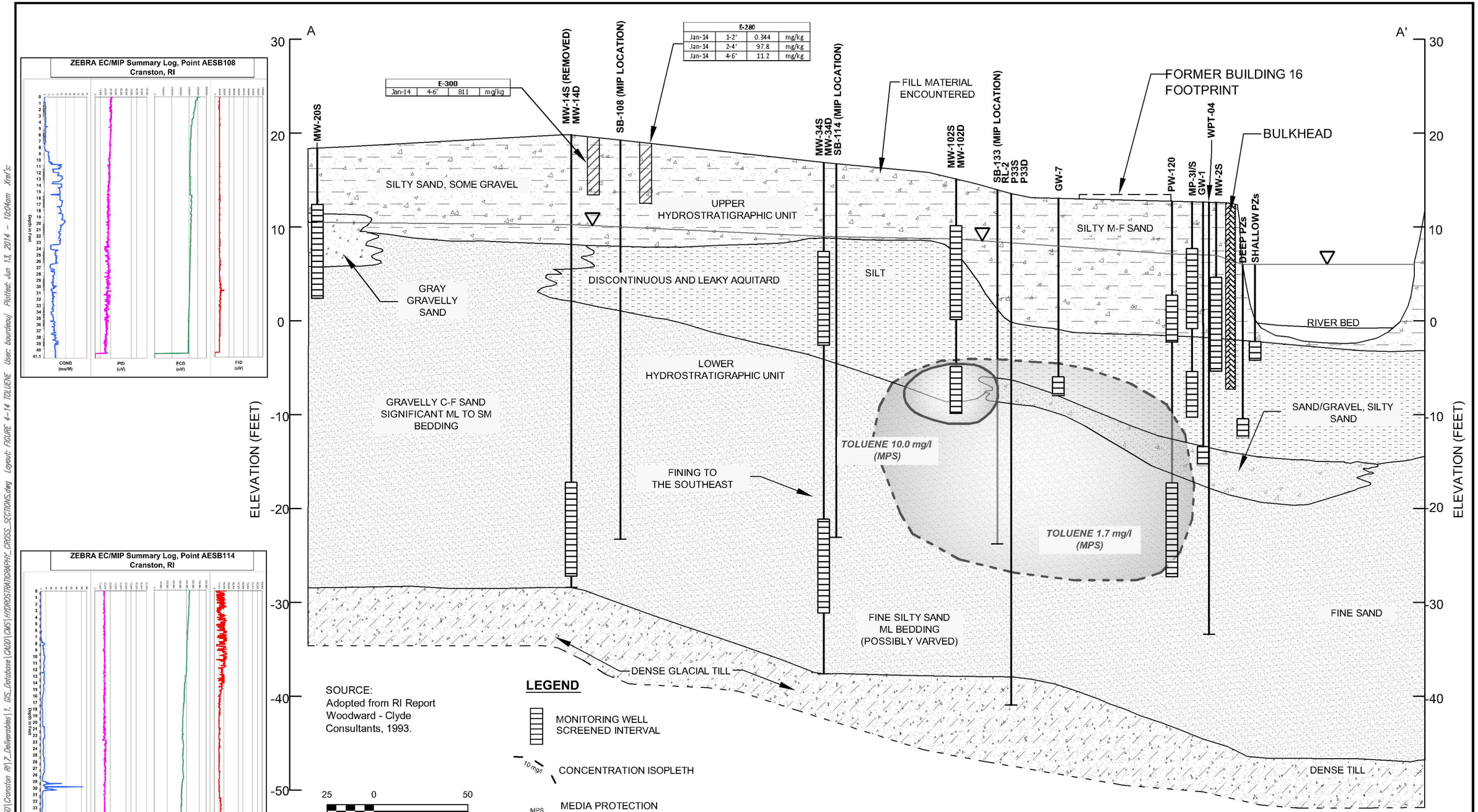
FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

DATE: 06/13/2014 DRWN: AES

HYDROSTRATIGRAPHIC CROSS-SECTION A-A' 2-CHLOROTOLUENE CONCENTRATIONS IN GROUNDWATER

FIGURE 4-13

File: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\CADD\CMS\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 4-13 2-CHLOROTOLUENE User: boundenuj Plotted: Jun 13, 2014 - 10:02am Xref's:

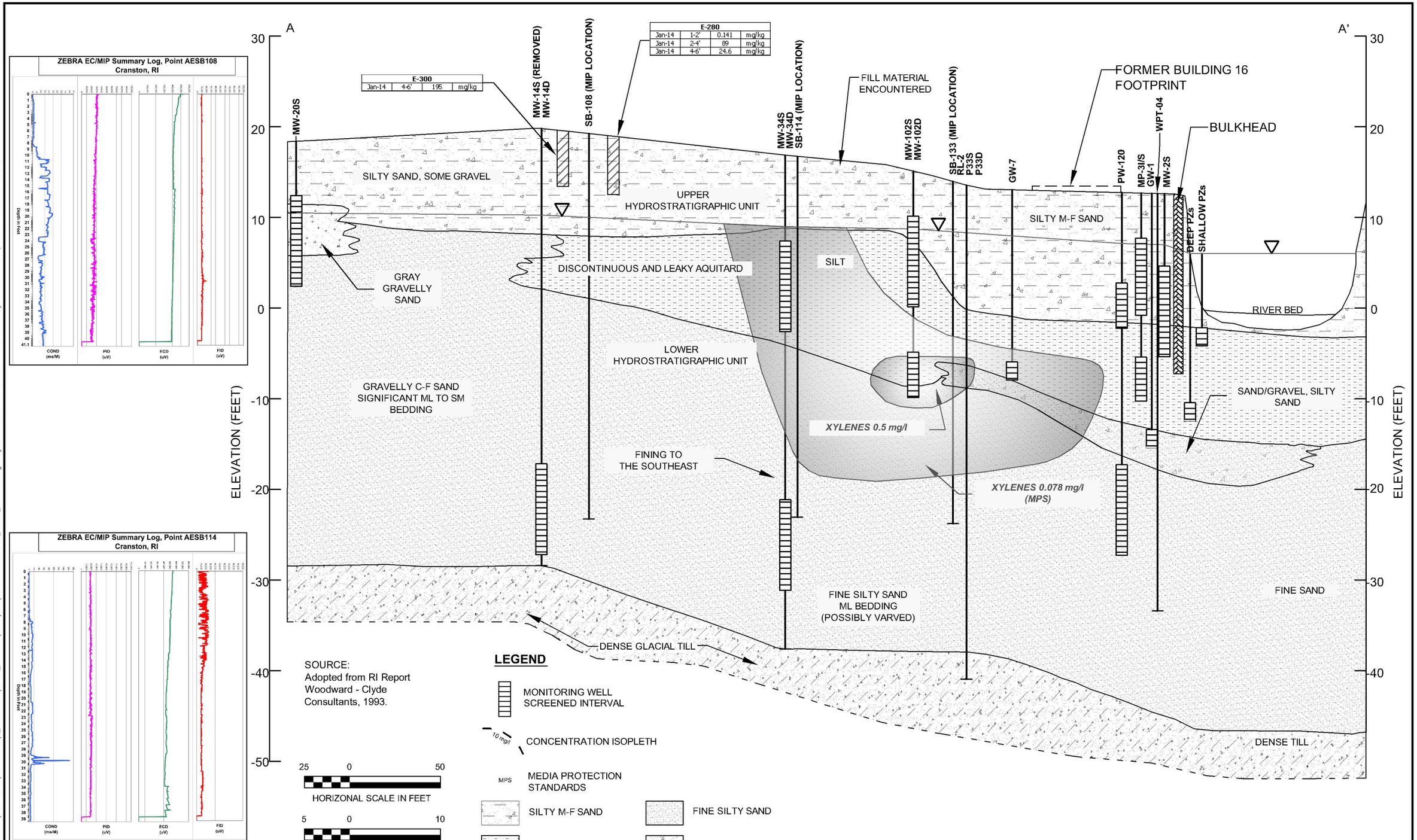


FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

HYDROSTRATIGRAPHIC CROSS-SECTION A-A' TOLUENE CONCENTRATION IN GROUNDWATER

DATE: 06/13/2014 | DRWN: AES | **FIGURE 4-14**

File: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\CAD\CMS\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 4-14 TOLUENE User: bourdeauj Plotted: Jun 13, 2014 - 10:04am Xref's:



AECOM

FORMER CIBA-GEIGY CRANSTON, RI 60297249.1200			HYDROSTRATIGRAPHIC CROSS-SECTION A-A' XYLENES CONCENTRATIONS IN GROUNDWATER
DATE: 06/13/2014	DRWN: AES		FIGURE 4-15

File: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\Z_Deliverables\1. GIS_Database\CADD\CMS\HYDROSTRATIGRAPHY_CROSS_SECTIONS.dwg Layout: FIGURE 4-15 XYLENES User: bourdeaux Plotted: Jun 13, 2014 - 10:08am Xref's:

Path: J:\Indl_Service\Project Files\BASF-0760\Cranston RI\7_Deliverables\1. GIS_Database\Projects\SRI_Report\Figure_4_16_GW_and_Shallow_Soil_VOC_Impacts.mxd

AECOM

0 25 50 Feet

N W E S

FORMER CIBA-GEIGY
CRANSTON, RI
60297249.1200

GROUNDWATER AND SHALLOW
SOIL VOC IMPACTS
SUPPLEMENTAL RI

DATE: 05/20/2014 | DRWN: J.E.B. | FIGURE 4-16

Appendix A

MIP Report (GFS, 2008)

GFS GEOLOGICAL FIELD SERVICES, INC.

January 10, 2008

Ciba-Geigy
Mr. Joseph Guarnaccia
P.O. Box 71
Toms River, NJ 08754

RE: Ciba-Geigy Facility, Cranston, RI
Ground Water and Soil Sampling

Dear Mr. Guarnaccia:

On January 9, 2008, Geological Field Services Inc., (GFS) conducted environmental sampling activities at the above referenced site. Sampling activities included the collection of seven soil and thirteen ground water samples for laboratory analyses. The samples were collected from discrete intervals were based on Membrane Interface Probe (MIP) and Electrical Conductivity (EC) data logs generated on November 19 and 20, 2007. The sampling intervals were established to further delineate the layers of contamination and the effect of grain size on the contaminate migration at localized areas of the site. The following is a description of all related field activities and observations.

Sub Surface Exploration
All subsurface activities were undertaken by Zebra Environmental Contracting from Uxbridge Massachusetts. The borings were advanced into the subsurface with a GeoProbe 6620DT track mounted vibratory hammer drill. The GeoProbe was manned with a driller and a drillers helper, with all activities performed under the supervision of a GFS employee. All site workers held current OSHA certification and all work was conducted with level D personal protection.

Soil Sample Collection
Twelve macro core soil samples were collected for field screening and classification. Soil samples were identified according to the respective boring and sample interval on each boring log. All soil samples were classified in the field by a geologist in accordance with the Modified Burmister Soil Classification System. Soil samples were screened for the presence of VOCs in accordance with standard head space screening procedures. One continuous soil log was collected adjacent to GMIP-1 to a depth of 44 feet below grade. Soil samples were collected using a 5 foot long by 2.125 inch diameter dual tube macro-core sampler. The dual tube sampling system was used to ensure that no bore hole cave-in was included with the desired sampling interval. A Mini RAE Organic Vapor Meter (OVM) equipped with a 10.6 ev lamp and calibrated at the start of the day with 100 ppm isobutylene was used to monitor the breathing zone and screen the soil samples for the presence of volatile organic contaminants (VOCs). Elevated head space readings observed in soil samples collected from GMIP-1 ranged from 28.9 ppm to 209 ppm at depths greater than five feet. Elevated soil head space readings were observed in the samples collected from GMIP-2 (59.8 ppm) and GMIP-7 (69.8 ppm). A soil

156 Tremont Street, Melrose, Massachusetts, 02176
Tel: (781) 662-9800 Fax: (781) 665-3099

sample collected from GMPI-10 between 10-14 feet below grade had only a slightly elevated reading of 2.1 ppm. Boring logs containing the results of the head space screening procedures and soil classifications are attached along with photos of the soil samples collected.

Four discrete soil samples were collected for laboratory analysis of VOCs by method 8260 and seven soil samples were collected for grain size analysis during field sampling activities. Soil samples were collected at specific intervals based on the data obtained from the MIP/EC data. Soil samples for laboratory analysis of VOCs by method 8260 were collected from GMIP-1 (7-11'), GMIP-1 (20-24'), GMIP-2 (20-24') and GMIP-7 (8-9'). Soil samples for laboratory analysis of grain size were collected from GMIP-1 (3-4'), GMIP-1 (7-11), GMIP-1 (20-24'), GMIP-2 (20-24'), GMIP-7 (8-10') GMIP-7 (8-11') and GMIP-10 (10-14').

A soil sample was collected in GMIP-1 between 3-4 feet below grade for grain size analysis because of a corresponding spike in the conductivity log. Samples were collected for VOCs in GMIP-1 at the 7-11 foot and 20-24 foot intervals due to the spikes in the MIP data. Soils collected at these two intervals were submitted for VOCs by 8260 and grain size analysis. The soil samples collected from GMIP-7 were taken at the change in strata from a black, medium to coarse sand to a gray very fine sand at approximately 9 feet below grade. This coincides with a spike in the CED levels starting at 8 feet below grade in GMIP-7. The soil sample at this location was split into separate samples for grain size analysis of the coarse sand and the very fine gray sand. One soil sample for VOCs by 8260 was collected from the six inches directly on either side of the strata change. All samples were packed on ice and shipped to the laboratories via-Ciba on-site employee on January 10, 2008.

Overburden Stratigraphy

The shallow overburden was observed to a depth of 44 feet below grade in GMIP-1. The overburden consisted of brown, medium to coarse sand that graded into a black to dark gray, fine to very fine sand at 10 feet below grade. Black ash layers were observed in GMIP-1 at 3-4 feet and 5-7 feet that coincide with the conductivity spikes in the MIP/EC data. With depth the gray sand had increasing amounts of clay and silt. A change from a black fine sand to a gray very fine sand and clay at 20 feet below grade coincided with the ECD spike in GMIP-1. A gray to dark gray, coarse sand layer was noted in the 35-40 foot interval, with a graded to a medium to fine sand from 40 to 44 feet.

In boring GMIP-7 a solvent odor was noted at the change in soil from a coarse black sand to a gray dense very fine sand at 8 to 9 feet below grade. The EC/MIP data indicated a spike in the EC data coinciding with the change from a coarse sand into the gray fine to very fine sand and clay.

The soil sample in GMIP-10 was collected from 10-14 feet below grade to investigate the spike in conductivity observed in the EC/MIP data log and to see if grain size has any reflection on the relatively low levels of contamination at this location. Soils observed at this location were a grading of brown, medium to fine sand into a gray very fine sand and clay. A soil sample was collected at this location for grain size analysis. Bedrock was not encountered during the drilling activities.

Ground Water Sample Collection

On January 9, 2008, thirteen ground water samples were collected. The samples were collected from discrete intervals of the aquifer. All water table samples were sampled by driving a blind probe to the sample depth and inserting a temporary PVC well into the borehole. The dual tube sampling method was utilized to collect water samples from intermediate depths below the water table. The dual tube sampling system was advanced to the desired depth and the temporary PVC well was inserted into the dual tube with the screen at the desired depth. The dual tube system was then removed from the borehole annulus to expose the screen and the groundwater was collected. Deep water samples were collected using the Geoprobe SP-15 sampling method. This involved driving the SP-15 sampler to the desired depth then pulling back the drill stem to expose a stainless steel wire-wrapped screen at the desired sampling interval. The SP-15 system was decontaminated in between sampling locations with a series of Alconox and distilled water washes and rinses.

All of the ground water samples were collected using virgin LDPE tubing and a peristaltic pump. Ground water was purged slowly until the turbidity dropped or the well went dry. Temperature, specific conductivity, dissolved oxygen, pH and oxidation reduction potential were measured using a YSI 556 meter. The YSI was calibrated at the start of the sampling day. Specific conductivity was calibrated using a 1,000 umhos/cm standard and dissolved oxygen was calibrated using the 100% saturation procedure. PH was calibrated with a pH 7 standard. Field parameters were measured before the samples were collected. After recording the field parameters, ground water was pumped directly into sample bottles provided by Ciba-Geigy. Sample bottles were packed on ice and prepared for shipping.

At the end of the sampling all temporary well materials were removed from the ground and the borehole annuluses were sealed to grade. All wells that were less than 20 feet below grade were filled with 3/8" bentonite chips. Wells that extended greater than 20 feet below grade were pressure grouted using a bentonite and Portland cement grout. All of the water generated from well purging and decontamination activities was contained in a 55-gallon drum and passed through the treatment plant. All of the screened intervals, installation methods, field parameters and the wells decommissioning methods are presented on the attached table. No duplicate samples were collected. The ground water samples were packed on ice and delivered to the laboratory via-Ciba on site employees on January 10, 2008.

Please contact me with any questions.

Sincerely:
GEOLOGICAL FIELD SERVICES, I NC.

Luke Fabbri
President, LSP

07126.0108

156 Tremont Street, Melrose, Massachusetts, 02176
Tel: (781) 662-9800 Fax: (781) 665-3099

Ground Water Sampling Summary
January 9, 2008

Sample Location	Screened Interval	Method of Installation	Annulus Sealing Method	Temp Deg C	Specific Conductance umhos/cm	pH	Dissolved oxygen mg/L	ORP mv
GMIP-1	7-10'	Blind probe with PVC	Bentonite Chips	12.91	399	6.92	5	-126.5
GMIP-1	20-24'	SP-15	Pressure Grout	13.06	452	6.91	5.09	-130.5
GMIP-1	30-34'	Dual tube with pvc	Pressure Grout	13.1	360	7.62	6.79	-199.8
GMIP-1	40-44'	SP-15	Pressure Grout	13.69	380	7.54	6.73	-199
GMIP-2	12-16'	Blind probe with PVC	Bentonite Chips	13.41	381	8.2	6.31	-172.8
GMIP-2	20-24'	SP-15	Pressure Grout	13.26	341	8.21	6.79	-185.8
GMIP-3	15-20'	Blind probe with PVC	Bentonite Chips	13.81	492	7.61	6.03	-128.1
GMIP-5	6-10'	Blind probe with PVC	Bentonite Chips	12.91	4863	7.76	6.02	-158.9
GMIP-5	20-24'	SP-15	Pressure Grout	10.17	13.04	499	6	-126.3
GMIP-7	8-12'	Blind probe with PVC	Bentonite Chips	13.7	380	7.91	6.59	-196.3
GMIP-7	18-22'	SP-15	Pressure Grout	13.4	359	7.95	6.77	-189.6
GMIP-9	5-9'	Blind probe with PVC	Bentonite Chips	13.16	380	7.21	6	-150
GMIP-11	16-20'	Blind probe with PVC	Bentonite Chips	13.42	399	7.26	6.91	-100.5

Soil Sampling Summary
January 9, 2008

Sample Location	Sample Depth	Method of Sample Collection	Laboratory Analysis	Headspace in ppm	Soil Description
GMIP-1	3-7	Macro core	Grain size	1.9	Brown, medium to coarse SAND, grading brown to black fine sand.
GMIP-1	7-11	Macro core	Grain size & 8260	185 209	Black to brown, fine SAND and ash solvent odor.
GMIP-1	20-24	Macro core dual tube	Grain size & 8260	8 148.9	Gray, very fine SAND and clay.
GMIP-2	20-24	Macro core dual tube	Grain size & 8260	7 59.8	Dark gray, very fine SAND and clay.
GMIP-7	7-8	Macro core	Grain size	NA	Black medium to coarse SAND, some gravel.
GMIP-7	8-9	Macro core	8260	336 69.8	
GMIP-7	8-10	Macro core	Grain size	NA	Gray, very fine SAND trace clays.
GMIP-10	10-14	Macro core	Grain size	2.1	Grading, brown, medium SAND into gray, very fine sand and clay

GEOLOGICAL FIELD SERVICES, INC. 156 Tremont Street Melrose, MA 02176 (781) 662-9800	Client: Ciba-Geigy Project: Cranston RI Location: Mill Street Cranston RI	BORING NUMBER: GMIP-1 Sheet No: 1 of: 1

Inspector: Ryan MacKay	Date Start:	Elevation:
Driller: Jake and John	Date Finish:	Water Elev:
Company: Zebra	Field Eq:	Cal Gas:

Drill Method: GeoProbe Sample: 5' x 2" Marco w/acetate liners

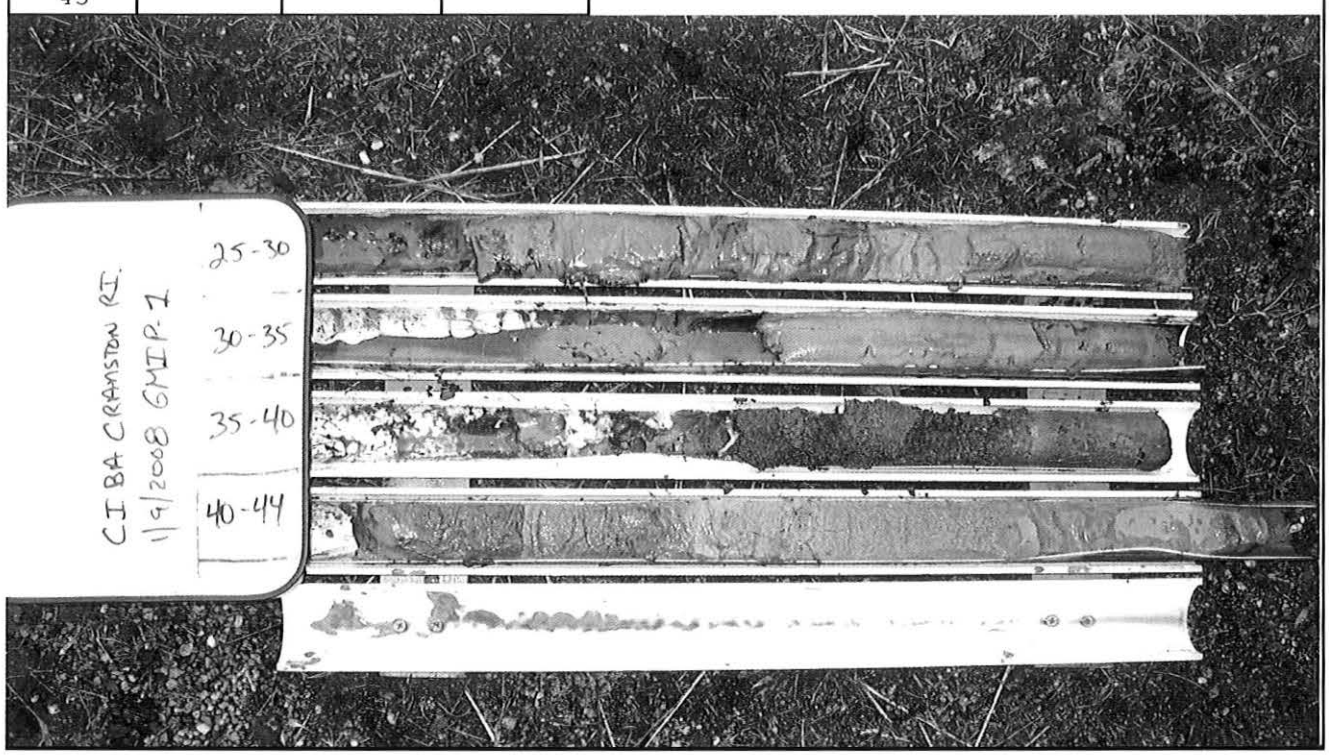
Sample			Strata Change	Classification and Remarks
Depth (Feet)	Number	Recovery (Inches)		
0	S-1	24	10"	Brown, medium to coarse SAND, grading into brown to black, fine SAND. Lab grain size sample. 1.9 ppm OVM
5	S-2	24	14"	Black to brown, fine SAND and ash solvent odor.
			14-24"	Brown, fine sand with some root material saturated. Lab 8260 and grain size. 209 ppm OVM.
10	S-3	24		Brown, fine SAND, trace coarse SAND, grading into bedded gray and brown fine sand, saturated. 126 ppm OVM.
15	S-4	48		Black to gray, very fine SAND with trace clays, saturated. 100 ppm OVM.
20	S-5	24		Gray, very fine SAND and clay, saturated. Lab grain size and 8260 sample. 148.9 ppm OVM.

GEOLOGICAL FIELD SERVICES, INC. 156 Tremont Street Melrose, MA 02176 (781) 662-9800	Client: Ciba-Geigy Project: Cranston RI Location: Mill Street Cranston RI	BORING NUMBER: GMIP-1 Sheet No: 2 of: 1

Inspector: Ryan MacKay	Date Start:	Elevation:
Driller: Jake and John	Date Finish:	Water Elev:
Company: Zebra	Field Eq:	Cal Gas:

Drill Method: GeoProbe Sample: 5' x 2" Marco w/acetate liners

Sample			Strata Change	Classification and Remarks
Depth (Feet)	Number	Recovery (Inches)		
25	S-6	24		Gray, fine SAND and clay, saturated.
				56 ppm OVM.
30	S-7	12		Gray, fine SAND and clay, saturated.
				28.9 ppm OVM.
35	S-8	12		Gray, coarse SAND, bottom 2" very fine sand and clay, saturated.
				29 ppm OVM.
40	S-9	24		Dark gray to gray, well sorted fine SAND.
				30 ppm OVM.
				EOB at 44' Grouted borehole to grade.
45				

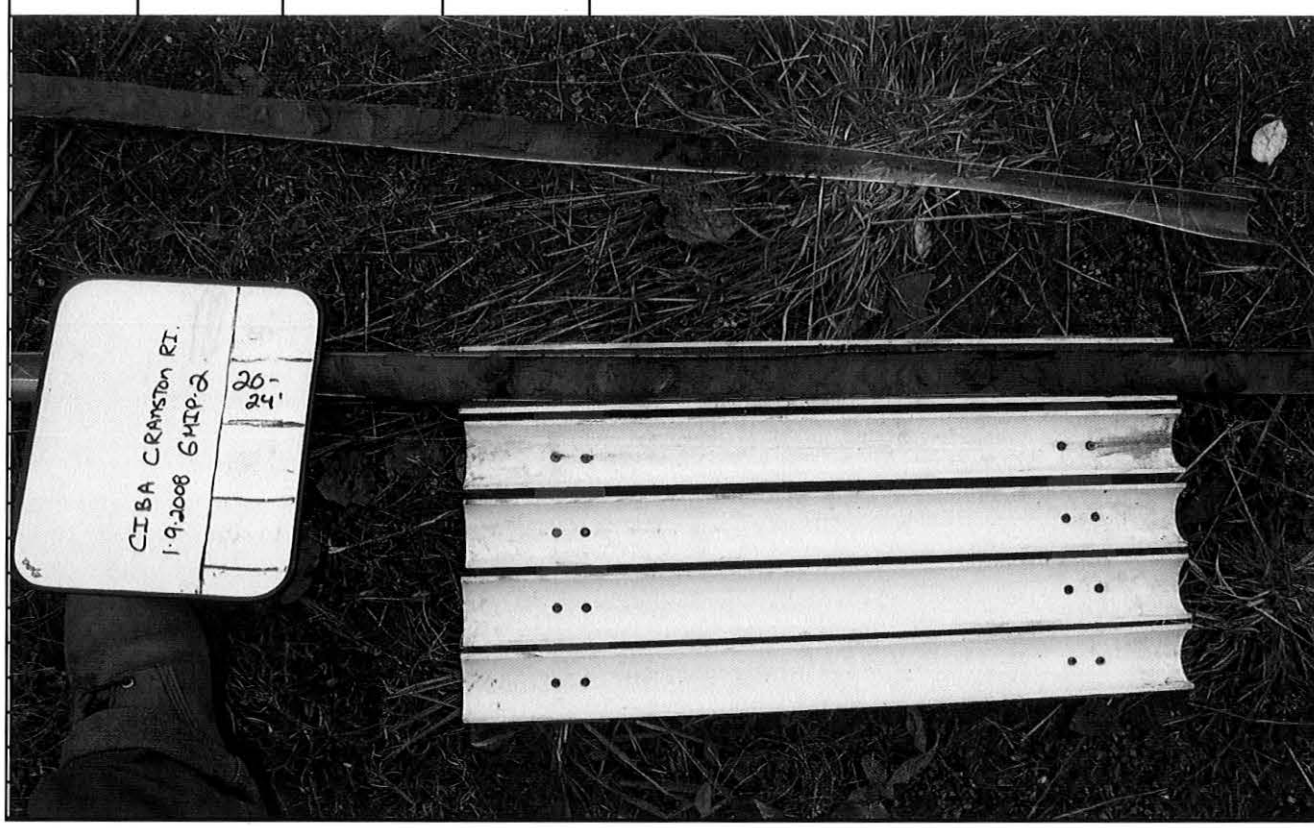


GEOLOGICAL FIELD SERVICES, INC. 156 Tremont Street Melrose, MA 02176 (781) 662-9800	Client: Ciba-Geigy Project: Cranston RI Location: Mill Street Cranston RI	BORING NUMBER: GMIP-2 Sheet No: 2 of: 1

Inspector: Ryan MacKay	Date Start:	Elevation:
Driller: Jake and John	Date Finish:	Water Elev:
Company: Zebra	Field Eq:	Cal Gas:

Drill Method: GeoProbe Sample: 5' x 2" Marco w/acetate liners

Sample			Strata Change	Classification and Remarks
Depth (Feet)	Number	Recovery (Inches)		
0-20				Direct pushed discrete sampler to 20'.
				No samples above 20'.
20	S-1	30		Dark gray, very fine SAND and clay,
				saturated. 59.8 ppm OVM.
21				Collected 8260 and grain size sample.
22				
23				
24				EOB at 24' sampled ground water from 20-24'
				with 3/4" PVC well. After sample pulled
25				well and grouted to grade.

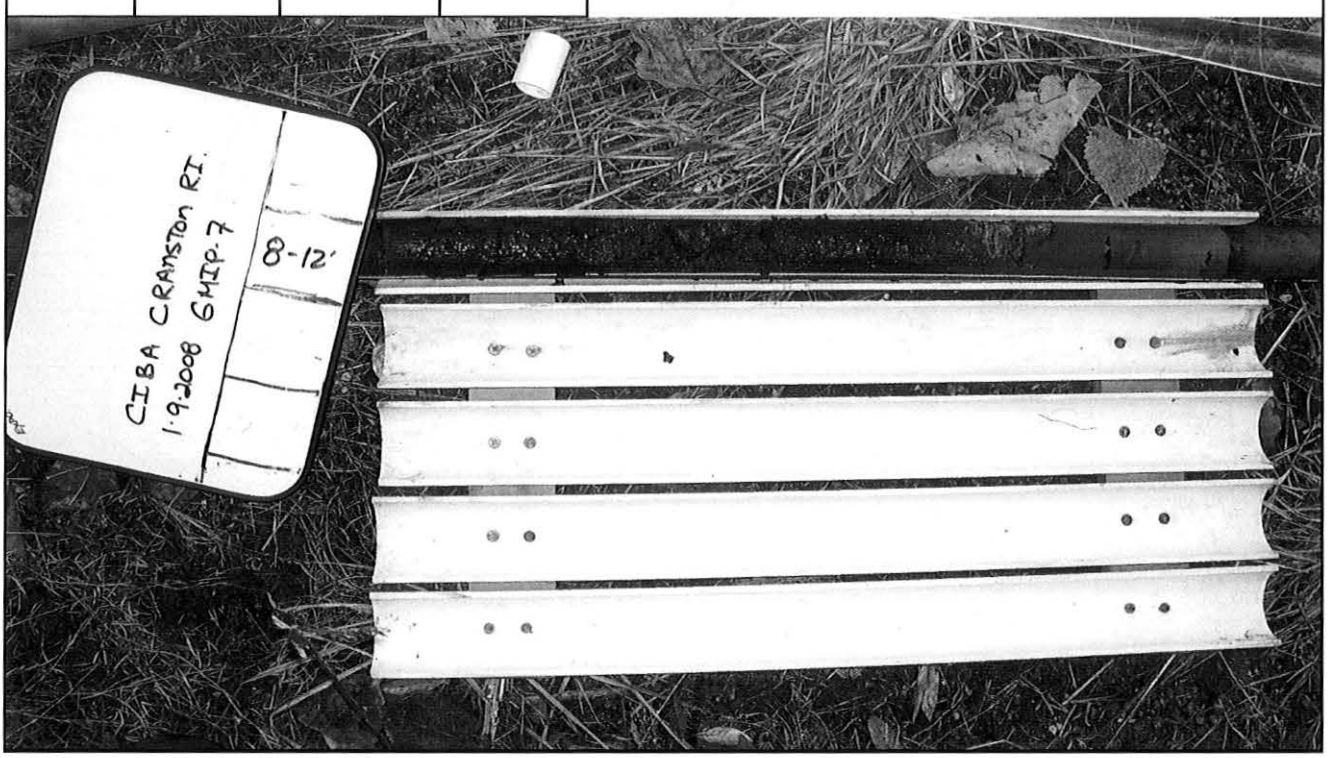


GEOLOGICAL FIELD SERVICES, INC. 156 Tremont Street Melrose, MA 02176 (781) 662-9800	Client: Ciba-Geigy Project: Cranston RI Location: Mill Street Cranston RI	BORING NUMBER: GMIP-7 Sheet No: 1 of: 1

Inspector: Ryan MacKay	Date Start:	Elevation:
Driller: Jake and John	Date Finish:	Water Elev:
Company: Zebra	Field Eq:	Cal Gas:

Drill Method: GeoProbe Sample: 5' x 2" Marco w/acetate liners

Sample			Strata Change	Classification and Remarks
Depth (Feet)	Number	Recovery (Inches)		
0-8				Direct pushed discrete sampler to 8'.
				No samples above 8'.
8	S-1	24"	0-16"	Black, medium to coarse SAND, some gravel,
				saturated, solvent odor heavy in coarse sand.
9			16-24"	Gray very fine SAND, trace
				clay, saturated.
10				
				69.8 ppm OVM.
11				Collected two grain size samples from
				coarse sand and very fine sand layer.
12				8260 sample collected from bottom 6" of
				coarse sand and top 2" of very
13				fine gray sand.
14				EOB at 12 feet backfilled with bentonite
				chips.



GEOLOGICAL FIELD SERVICES, INC. 156 Tremont Street Melrose, MA 02176 (781) 662-9800	Client: Ciba-Geigy Project: Cranston RI Location: Mill Street Cranston RI	BORING NUMBER: GMIP-10 Sheet No: 1 of: 1

Inspector: Ryan MacKay	Date Start:	Elevation:
Driller: Jake and John	Date Finish:	Water Elev:
Company: Zebra	Field Eq:	Cal Gas:

Drill Method: GeoProbe Sample: 5' x 2" Marco w/acetate liners

Sample			Strata Change	Classification and Remarks
Depth (Feet)	Number	Recovery (Inches)		
0-10				Direct pushed discrete sampler to 8'.
				No samples above 8'.
10	S-1	48		Grading, brown medium to fine SAND into
				gray very fine sand and clay, saturated.
11				
				2.1 ppm OVM.
12				
13				
14				EOB at 14 feet backfilled with bentonite
				chips to grade.
15				
16				
17				
18				
19				

Appendix B

Air Sparge/Soil Vapor Extraction (AS/SVE) Pilot Test Field Records

Boring Logs

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)*		***BORING ID: AS-1***
	Project Number: *60163799*		
	Site Location: *180 Mill Street, Cranston, RI*		
	Coordinates:	*Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*		*Monitoring Well Installed:*
	Sample Type(s): *split spoon*	*Boring Diameter: 3.25"*	*Screened Interval: 38'-40'*
Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-16-11*	*Depth of Boring: 40'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-16-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5 6 7 8									
9 10		8-10	WH	18/24	12.5	OL	Dark Brown and Black **ORGANIC SOIL**, little peat fibers, organic odors		
11 12		10-12	WH,1,1	19/24	11.1	ML	**SANDY SILT**		
13 14		12-14	2,3,5,4	24/24	8.0 6.6	ML	Top 12": **SAME AS ABOVE** Bottom 12": **SILT**, trace fine sand		
15 16		14-16	1,2,2,2	16/24	13.5	CL	Grey, **SOFT CLAY**, wet		
17 18		16-18	4,4,4,3	24/24	9.5	ML	Dark Grey **SILT**, lens of coarse sand @11", wet		
19 20		18-20	WH,2,2,2	19/24	10.8	ML	Dark Grey **SILT**, low plasticity, wet		

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)*		***BORING ID: AS-1***
	Project Number: *60163799*		
	Site Location: *180 Mill Street, Cranston, RI*		
	Coordinates:	*Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*		*Monitoring Well Installed:*
	Sample Type(s): *split spoon*	*Boring Diameter: 3.25"*	*Screened Interval: 38'-40'*
Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-16-11*	*Depth of Boring: 40'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-16-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
21 22		20-22	1,2,2,2	24/24	10.7	CL	Dark Grey **SOFT CLAY, wet**		
23 24		22-24	WH,1,1	24/24	5.7	CL	Dark Grey **VERY SOFT CLAY**, wet		
25 26		24-26	WH,1,1	19/24	5.3	CL	**SAME AS ABOVE**, lens of medium sand @ 4", wet		
27 28		26-28	1,1,2,2	24/24	3.4	CL	**SAME AS ABOVE**, some medium to coarse sand @ 1"-3" and 20"-23", wet		
29 30		28-30	WH,3	24/24	1.3	CL	Grey **SOFT CLAY**, wet		
31 32		30-32	WH	18/24	1.4	CL	**SAME AS ABOVE**		
33 34		32-34	WH,2,2,2	20/24	1.2	ML	Dark Grey **SILT**, trace fine to medium sand, wet		
35 36		34-36	WH,3,2,3	24/24	1.0	SW	Top 18": Dark Grey **WELL-GRADED SAND**, 2" lens of silt, wet Bottom 6": Dark Grey, **COARSE TO MEDIUM SAND**, trace silt, wet		
37 38		36-38	5,6,6,7	24/24	1.0	SW ML	Top 18": Dark Grey **WELL-GRADED SAND**, wet Bottom 6": Dark Grey, **GRAVELY SILT WITH SAND**, wet		
39 40		38-40	3,8,6,3	18/24	1	ML	**SAME AS ABOVE**, wet		

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MW-100D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed: YES*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 20'-25'*

Weather: 60's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-18-11*	*Depth of Boring: 25'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-18-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5									
6 7		5-7	WH	5/24	1.0	OL	**ORGANIC SOIL**, little fine and medium sand, wet at bottom		
8 9		7-9	WH,4,3,2	22/24	1.0	OL ML	Top 10": **SAME AS ABOVE** Bottom 12": Black **SILT**, wet		
10 11		9-11	WH,1,3,5	5/24	0.7	ML	**SANDY SILT**, little gravel, wet		
12 13		11-13	4,4,4,7	19/24	1.3	ML	Top 6": **SAME AS ABOVE** Bottom 13": **SILT**, some fine sand, wet	MW-100D (11-13)	
14 15		13-15	WH,1,2,2	17/24	2.5	CL	Dark Grey **SOFT CLAY**, wet		
16 17		15-17	WH,1,1,2	17/24	6.7	CL	Dark Grey **VERY SOFT CLAY**, wet	MW-100D (15-17)	
18 19		17-19	2,1,1,2	24/24	1.8	CL	**SAME AS ABOVE**	MW-100D (17-19)	

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MW-100D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed: YES*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 20'-25'*

Weather: 60's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-18-11*	*Depth of Boring: 25'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-18-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
20 21		19-21	WH,2	19/24	2.5	CL	**SAME AS ABOVE**		
22 23		21-23	1,WH,1,1	20/24	2.2	CL	**SAME AS ABOVE**		
24 25		23-25	WH,1,1	20/24	0.2	CL	Olive Grey, **SOFT CLAY**, little silt, wet		
26 27 28 29 30 31 32 33 34 35 36 37 38									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MW-101D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed: YES*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 20'-25'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-16-11*	*Depth of Boring: 25'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-16-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5									
6 7		5-7	17,31,19,20	14/24	5.8	GM	Brown and Dark Grey **SILTY GRAVEL**, little coarse to medium sand, dry, moist at bottom of spoon.		
8 9		7-9	11,7,7,9	19/24	1.8 12.2	GM ML	Top 10": **SAME AS ABOVE** Bottom 9": **GRAVELY SILT**		
10 11		9-11	5,5,7,5	14/24	11.8	ML	Top 7": Dark Brown **GRAVELY SILT WITH SAND**, wet Bottom 7": Stiff Dark Brown **SILT**, wet		
12 13		11-13	5,5,5,6	19/24	17.7	ML	Grey **SANDY SILT, wet**	MW-101D (11-13)	
14 15		13-15	WH,2,2	13/24	4.8	CL	Dark Grey **SOFT CLAY, wet**		
16 17		15-17	1,1,2,3	20/24	16.6	CL	Dark Grey, **VERY SOFT CLAY**, wet	MW-101D (15-17)	
18 19		17-19	3,5,5,3	18/24	26.2	CL	Dark Grey **CLAY**, wet	MW-101D (17-19)	

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MW-101D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed: YES*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 20'-25'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-16-11*	*Depth of Boring: 25'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-16-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
20 21		19-21	WH,1	13/24	5.3	CL	Dark Grey, **VERY SOFT CLAY**, wet		
22 23		21-23	1,1,1,1	24/24	3.0 4.5	CL	**SAME AS ABOVE**		
24 25		23-25	WH,2,8,5	11/24	2.6	CL	Dark Grey **SOFT CLAY**, some silt, wet		
26 27 28 29 30 31 32 33 34 35 36 37 38									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MW-101D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed: YES*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 20'-25'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-17-11*	*Depth of Boring: 25'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-17-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5									
6 7		5-7	8,10,13,17	10/24	6.7	SM	Brown **SILTY SAND**, little gravel, wet		
8 9		7-9	13,13,11,13	21/24	232 221	ML	Top 10": Dark Brown **SANDY SILT**, little gravel, wet Bottom 11": Dark Brown **SANDY SILT WITH GRAVEL**, wet	MW-102D (7-8)	
10 11		9-11	2,5,6,6	14/24	252 117	ML	Top 6": **SAME AS ABOVE** Bottom 8": Dark Brown, low placticity, **SILT**, wet	MW-102D (9-10)	
12 13		11-13	6,7,7,6	24/24	129 118	ML CL	Top 10": Dark Brown **SILT**, trace coarse sand and trace gravel, wet Bottom 14": Olive Grey, stiff **CLAY**, 3.0 pocket penitrometer reading, wet		
14 15		13-15	WH,2,2,3	15/24	62	CL	Olive Grey, **VERY SOFT CLAY**, trace silt, wet	MW-102D (13-15)	
16 17		15-17	1,2,1,2	24/24	8.6	ML	Dark Grey, **SILT**, little soft clay, wet		
18 19		17-19	2,2,1,2	24/24	38	CL	Dark Grey, **VERY SOFT CLAY**, little silt, wet		

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MW-101D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed: YES*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 20'-25'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-17-11*	*Depth of Boring: 25'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-17-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
20 21		19-21	WH,14	20/24	11.4	CL	**SAME AS ABOVE**		
22 23		21-23	WH,1,1	24/24	30.7	CL	**SAME AS ABOVE**		
24 25		23-25	1,1,1,1	13/24	6.3	CL	**SAME AS ABOVE**		
26 27 28 29 30 31 32 33 34 35 36 37 38									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)*		***BORING ID: MP-1D***
	Project Number: *60163799*		
	Site Location: *180 Mill Street, Cranston, RI*		
	Coordinates:	*Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*		*Monitoring Well Installed:*
	Sample Type(s): *split spoon*	*Boring Diameter: 3.25"*	*Screened Interval: 28'-32'*
Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-23-11*	*Depth of Boring: 32'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-23-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5 6 7 8									
9 10		8-10	1,WH, WH, 1	20/24	97	OL	Dark Brown **ORGANIC SOIL**, little medium sand, organic odors, wet	MP-1D (8-10)	
11 12		10-12	WH,1,1,2	14/24	15.2	ML	Dark Brown and Dark Grey **SILT**, some odors		
13 14		12-14	2,3,3,4	24/24	65.7	ML ML	Top 10": Dark Grey and Dark Brown **SILT**, little coarse to medium sand, wet Bottom 14": Brown and Grey **SILT**, little soft clay	MP-1D (12-13)	
15 16		14-16	4,5,4,5	20/24	13.4	CL	Dark Grey, medium stiff, **CLAY**, trace medium sand, trace gravel, wet		
17 18		16-18	3,4,3,4	22/24	22.2	CL ML	Top 12": **VERY SOFT CLAY**, little coarse sand Bottom 10": Olive Grey **SILT**, some soft clay		
19 20		18-20	WH,2,2,3	21/24	23	CL	Olive Grey, **VERY SOFT CLAY**, little silt, wet	MP-1D (18-20)	

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MP-1D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed:*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 28'-32'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-23-11*	*Depth of Boring: 32'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-23-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
21		20-22	WH,1,1,1	17/24	23.1	CL	Olive Grey **VERY SOFT CLAY**, wet		
22									
23		22-24	1,1,2,1	24/24	13.2	CL	**SAME AS ABOVE**		
24									
25		24-26	WH,1,2	17/24	2.9	CL	**SAME AS ABOVE**		
26									
27		26-28	2,3,2,2	22/24	8.3	CL	**SAME AS ABOVE**		
28									
29		28-30	WH,1	16/24	0	CL	**SAME AS ABOVE**		
30									
31		30-32	WH,1	20/24	0	CL	**SAME AS ABOVE**		
32									
33									
34									
35									
36									
37									
38									
39									
40									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)*		***BORING ID: MP-2D***
	Project Number: *60163799*		
	Site Location: *180 Mill Street, Cranston, RI*		
	Coordinates:	*Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*		*Monitoring Well Installed:*
	Sample Type(s): *split spoon*	*Boring Diameter: 3.25"*	*Screened Interval: 28'-32'*
Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-18-11*	*Depth of Boring: 32'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-18-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5 6 7 8									
9 10		8-10	WH	9/24	3.8	OL	**ORGANIC SOIL**, wet		
11 12		10-12	WR,2,2,2	14/24	7.8	ML	**SANDY SILT WITH GRAVEL**, wet		
13 14		12-14	4,5,4,6	17/24	16.9	ML	**SILT**, trace fine sand, little clay, wet		
15 16		14-16	WH,1,3,4	14/24	23.1	CL	Dark Grey **VERY SOFT CLAY**, trace coarse sand, trace organic soil, wet		
17 18		16-18	1,2,2,4	24/24	36.5	CL	**VERY SOFT CLAY**, some silt, wet	MP-2D (16-18)	
19 20		18-20	WH,1,2	24/24	474	CL	Dark Grey **VERY SOFT CLAY**, nail polish remover odor, wet	MP-2D (18-20)	

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MP-2D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed:*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 28'-32'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-18-11*	*Depth of Boring: 32'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-19-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
21 22		20-22	1,1,1,2	18/24	62	ML	Dark Grey **SILT**, little very soft clay, slight odor from above, wet	MP-2D (20-22)	
23 24		22-24	2,2,1,2	24/24	7.4	CL	Dark Grey **VERY SOFT CLAY**, wet		
25 26		24-26	WH,1,2,3	16/24	1	CL	**SAME AS ABOVE**		
27 28		26-28	1,2,1,3	24/24	1	ML	**SILT**, trace fine sand, little very soft clay, wet		
29 30		28-30	WH	12/24	11.2	CL	Dark Grey **VERY SOFT CLAY**, wet		
31 32		30-32	WH,1,1	Not Recorded	Not Recorded	ML	Dark Grey **SILT**, low plasticity, some very soft clay.		
33 34 35 36 37 38 39 40									

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)*		***BORING ID: MP-3D***
	Project Number: *60163799*		
	Site Location: *180 Mill Street, Cranston, RI*		
	Coordinates:	*Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*		*Monitoring Well Installed:*
	Sample Type(s): *split spoon*	*Boring Diameter: 3.25"*	*Screened Interval: 28'-32'*
Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-19-11*	*Depth of Boring: 32'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-19-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
1 2 3 4 5 6 7 8									
9 10		8-10	1,WR, WR, 1	3/24	62	OL	Rock in tip, Dark Brown **ORGANIC SOIL**, little gravel, trace medium to fine sand, wet, slight organic odors		
11 12		10-12	WH	0/24					
13 14		12-14	1,WH,1,1	16/24	145	OL	Dark Brown **ORGANIC SOIL**, some wood chips and fibers, trace coarse sand, wet	MP-3D (12-14)	
15 16		14-16	WH,1,2	14/24	56 21	OL CL	Top 10": **SAME AS ABOVE**, trace gravel, wet Bottom 4": Olive Grey **VERY SOFT CLAY**, wet		
17 18		16-18	1,2,1,1	24/24	43	CL	Olive Grey **VERY SOFT CLAY**, little silt, wet		
19 20		18-20	WH	21/24	692	CL	**SAME AS ABOVE**, nail polish remover odor, wet	MP-3D (18-20)	

NOTES:

Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

AECOM 2 Technology Park Westford, MA 01886 (978) 589-3000	*Client:* *BASF (former Ciba-Geigy facility)* *Project Number:* *60163799* *Site Location:* *180 Mill Street, Cranston, RI*	***BORING ID: MP-3D***
	Coordinates: *Elevation:*	*Sheet: 1 of 1*
	Drilling Method: *Hollow-stem auger*	*Monitoring Well Installed:*
	Sample Type(s): *split spoon* *Boring Diameter: 3.25"*	*Screened Interval: 28'-32'*

Weather: 50's, chance of rain	*Logged By: Luis Ferreira*	*Date/Time Started: 5-19-11*	*Depth of Boring: 32'*
Drilling Contractor: Geosearch	*Ground Elevation:*	*Date/Time Finished: 5-19-11*	*Water Level:*

Depth (ft)	Geologic sample ID	Sample Depth (ft)	Blows per 6"	Recovery (inches)	Headspace (ppm)	U.S.C.S	**MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and Geologic Unit (If Known)**	Lab Sample ID	Lab Sample Depth (Ft.)
21 22		20-22	WH,1,2,1	15/24	43	CL	Olive Grey, **VERY SOFT CLAY**, little silt, wet	MP-3D (20-22)	
23 24		22-24	1,1,1,1	20/24	15	CL	Olive Grey, **VERY SOFT CLAY**, wet		
25 26		24-26	1,WH, WH,1	19/24	33	CL	**SAME AS ABOVE**		
27 28		26-28	1,WH,1,WH	22/24	5.4	CL	**SAME AS ABOVE**		
29 30		28-30	WH,1	24/24	1.6	CL	**SAME AS ABOVE**		
31 32		30-32	WH,1	16/24	2.2	CL	Olive Grey, **VERY SOFT CLAY**, some silt, wet		
33 34 35 36 37 38 39 40									

NOTES:

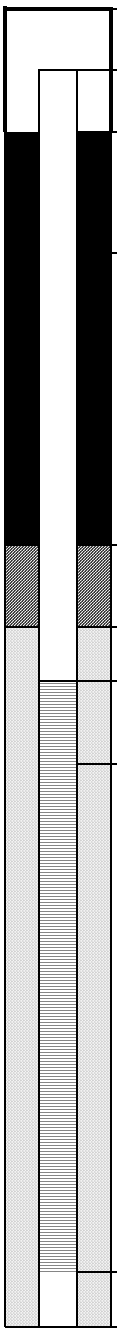
Date	Time	Depth to groundwater while drilling

Checked by _____ Date:_____

Well Logs

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MW-100D***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-18-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL



	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	2.0	NA
Top of Bentonite	16.0	0.00
Top of Sand	18.0	0.00
Top of Screen	20.0	0.00
Bottom of Screen	25.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	22.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	5.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MW-100S***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-18-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
		NA
Top of Bentonite	1.0	0.00
Top of Sand	3.0	0.00
Top of Screen	5.0	0.00
Bottom of Screen	15.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	7.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	10.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MW-101D***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-16-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	2.0	NA
Top of Bentonite	16.0	0.00
Top of Sand	18.0	0.00
Top of Screen	20.0	0.00
Bottom of Screen	25.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	22.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	5.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MW-101S***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-17-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
		NA
Top of Bentonite	1.0	0.00
Top of Sand	3.0	0.00
Top of Screen	5.0	0.00
Bottom of Screen	15.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	7.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	10.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MW-102D***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-17-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	2.0	NA
Top of Bentonite	16.0	0.00
Top of Sand	18.0	0.00
Top of Screen	20.0	0.00
Bottom of Screen	25.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	22.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	5.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MW-102S***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-18-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
		NA
Top of Bentonite	1.0	0.00
Top of Sand	3.0	0.00
Top of Screen	5.0	0.00
Bottom of Screen	15.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	7.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	10.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: AS-1***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-16-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	5.0	NA
Top of Bentonite	34.0	0.00
Top of Sand	36.0	0.00
Top of Screen	38.0	0.00
Bottom of Screen	40.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	36.0
Inside Diameter	2
Type of Material	PVC
Length (feet)	Top 4.0' of well
Inside Diameter	2
Type of Material	steel

Screen:

Length (feet)	2.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: AS-2***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-20-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	3.0	NA
Top of Bentonite	15.0	0.00
Top of Sand	17.0	0.00
Top of Screen	19.0	0.00
Bottom of Screen	21.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	21.0
Inside Diameter	2
Type of Material	PVC
Length (feet)	Top 4.0' of well
Inside Diameter	2
Type of Material	steel

Screen:

Length (feet)	2.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-1D***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-23-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	5.0	NA
Top of Bentonite	24.0	0.00
Top of Sand	26.0	0.00
Top of Screen	28.0	0.00
Bottom of Screen	32.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	30.0
Inside Diameter	1.5
Type of Material	PVC

Screen:

Length (feet)	4.0
Inside Diameter	1.5
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-1I***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-23-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Bentonite	2.0	NA
Top of Sand	3.0	
Top of Bentonite	14.0	0.00
Top of Sand	16.0	0.00
Top of Screen	18.0	0.00
Bottom of Screen	22.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	20.0
Inside Diameter	1.5
Type of Material	PVC

Screen:

Length (feet)	4.0
Inside Diameter	1.5
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 6.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-1S***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-23-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
		NA
Top of Bentonite	2.0	0.00
Top of Sand	3.0	0.00
Top of Screen	5.0	0.00
Bottom of Screen	13.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	7.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	8.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 6.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-2D***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-19-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	2.0	NA
Top of Bentonite	24.0	0.00
Top of Sand	26.0	0.00
Top of Screen	28.0	0.00
Bottom of Screen	32.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	30.0
Inside Diameter	1.5
Type of Material	PVC

Screen:

Length (feet)	4.0
Inside Diameter	1.5
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-2I***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-23-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Bentonite	2.0	NA
Top of Sand	3.0	
Top of Bentonite	14.0	0.00
Top of Sand	16.0	0.00
Top of Screen	18.0	0.00
Bottom of Screen	22.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	20.0
Inside Diameter	1.5
Type of Material	PVC

Screen:

Length (feet)	4.0
Inside Diameter	1.5
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 6.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-2S***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-23-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
		NA
Top of Bentonite	2.0	0.00
Top of Sand	3.0	0.00
Top of Screen	5.0	0.00
Bottom of Screen	13.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	7.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	8.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 6.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-3D***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-19-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Grout	2.0	NA
Top of Bentonite	24.0	0.00
Top of Sand	26.0	0.00
Top of Screen	28.0	0.00
Bottom of Screen	32.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	30.0
Inside Diameter	1.5
Type of Material	PVC

Screen:

Length (feet)	4.0
Inside Diameter	1.5
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 4.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-3I***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-20-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
Top of Bentonite	2.0	NA
Top of Sand	3.0	

Riser Pipe:

Length (feet)	20.0
Inside Diameter	1.5
Type of Material	PVC

Top of Bentonite	14.0	0.00
Top of Sand	16.0	0.00
Top of Screen	18.0	0.00

Screen:

Length (feet)	4.0
Inside Diameter	1.5
Type of Material	PVC
Slot Size	0.01"
Type/Size of Sand	Silica Sand / #2

Bottom of Screen	22.0	0.00
Bottom of Sump	NA	NA

Borehole Diameter 6.25"

AECOM	*Client: BASF (former Ciba-Geigy facility)*	***WELL ID: MP-3S***
	Project Number: 60163799	
	Site Location: 180 Mill Street, Cranston, RI	*Date Installed: 5-20-11*
	Well Location:	*Inspector: Luis Ferreira*
	Method: Hollow-stem auger	*Contractor: Geosearch*

MONITORING WELL CONSTRUCTION DETAIL

	Depth from G.S. (feet)	Elevation (feet-NAVD 88)
Top of Standpipe Cover	-2.5	
Top of Riser Pipe	-2.0	
		NA
Top of Bentonite	2.0	0.00
Top of Sand	3.0	0.00
Top of Screen	5.0	0.00
Bottom of Screen	13.0	0.00
Bottom of Sump	NA	NA

Riser Pipe:

Length (feet)	7.0
Inside Diameter	2
Type of Material	PVC

Screen:

Length (feet)	8.0
Inside Diameter	2.0
Type of Material	PVC
Slot Size	0.02"
Type/Size of Sand	Silica Sand / #2

Borehole Diameter 6.25"

BASF Cranston
Soil Analytical Results
May 2011

Sample Location		**MW-101D (11-13)**		**MW-101D (15-17)**		**MW-101D (17-19)**		**MW-102D (7-8)**		**MW-102D (9-10)**		**MW-102D (13-15)**	
Laboratory ID		**SB28856-01**		**SB28856-02**		**SB28856-03**		**SB28856-04**		**SB28856-05**		**SB28856-06**	
Sample Date		**5/16/2011**		**5/16/2011**		**5/16/2011**		**5/17/2011**		**5/17/2011**		**5/17/2011**	
SM2540 G Mod. (%)													
solids	% Solids	77.0		78.8		80.0		86.9		91.8		82.4	
SW846 8260C (µg/kg)													
630-20-6	1,1,1,2-Tetrachloroethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
71-55-6	1,1,1-Trichloroethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
79-34-5	1,1,2,2-Tetrachloroethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
79-00-5	1,1,2-Trichloroethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-34-3	1,1-Dichloroethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-35-4	1,1-Dichloroethene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
563-58-6	1,1-Dichloropropene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
87-61-6	1,2,3-Trichlorobenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
96-18-4	1,2,3-Trichloropropane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
120-82-1	1,2,4-Trichlorobenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
95-63-6	1,2,4-Trimethylbenzene	<6.1		<4.5		<4.4		20100		<889		28.0	
96-12-8	1,2-Dibromo-3-chloropropane	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
106-93-4	1,2-Dibromoethane (EDB)	<6.1		<4.5		<4.4		<1090		<889		<7.6	
95-50-1	1,2-Dichlorobenzene	18.3		43.0		35.0		<1090		<889		11.3	
107-06-2	1,2-Dichloroethane	<6.1		<4.5		<4.4		<1090		<889		9.0	
78-87-5	1,2-Dichloropropane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
108-70-3	1,3,5-Trichlorobenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
108-67-8	1,3,5-Trimethylbenzene	<6.1		<4.5		<4.4		5920		<889		<7.6	
541-73-1	1,3-Dichlorobenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
142-28-9	1,3-Dichloropropane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
106-46-7	1,4-Dichlorobenzene	<6.1		6.1		4.6		<1090		<889		<7.6	
123-91-1	1,4-Dioxane	<123		<90.9		<87.9		<21700		<17800		<152	
594-20-7	2,2-Dichloropropane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
78-93-3	2-Butanone (MEK)	<61.4		<45.4		<44.0		<10900		<8890		<76.0	
95-49-8	2-Chlorotoluene	32.3		305	E	434	E	1370		<889		<7.6	
591-78-6	2-Hexanone (MBK)	<61.4		<45.4		<44.0		<10900		<8890		<76.0	
106-43-4	4-Chlorotoluene	<6.1		22.9		24.6		<1090		<889		<7.6	
99-87-6	4-Isopropyltoluene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
108-10-1	4-Methyl-2-pentanone (MIBK)	<61.4		<45.4		<44.0		<10900		<8890		<76.0	
67-64-1	Acetone	<61.4		<45.4		<44.0		<10900		<8890		<76.0	
107-13-1	Acrylonitrile	<6.1		<4.5		<4.4		<1090		<889		<7.6	
71-43-2	Benzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
108-86-1	Bromobenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
74-97-5	Bromochloromethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-27-4	Bromodichloromethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-25-2	Bromoform	<6.1		<4.5		<4.4		<1090		<889		<7.6	
74-83-9	Bromomethane	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
75-15-0	Carbon disulfide	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
56-23-5	Carbon tetrachloride	<6.1		<4.5		<4.4		<1090		<889		<7.6	
108-90-7	Chlorobenzene	1060	E	1460	E	1200	E	52300		71500		7730	E
75-00-3	Chloroethane	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
67-66-3	Chloroform	<6.1		<4.5		<4.4		<1090		<889		<7.6	
74-87-3	Chloromethane	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
156-59-2	cis-1,2-Dichloroethene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
10061-01-5	cis-1,3-Dichloropropene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
124-48-1	Dibromochloromethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
74-95-3	Dibromomethane	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-71-8	Dichlorodifluoromethane (Freon12)	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
108-20-3	Di-isopropyl ether	<6.1		<4.5		<4.4		<1090		<889		<7.6	
64-17-5	Ethanol	<2450		<1820		<1760		<434000		<356000		<3040	
60-29-7	Ethyl ether	<6.1		<4.5		<4.4		<1090		<889		<7.6	
637-92-3	Ethyl tert-butyl ether	<6.1		<4.5		<4.4		<1090		<889		<7.6	
100-41-4	Ethylbenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
87-68-3	Hexachlorobutadiene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
98-82-8	Isopropylbenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
179601-23-1	m,p-Xylene	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
1634-04-4	Methyl tert-butyl ether	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-09-2	Methylene chloride	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
91-20-3	Naphthalene	<6.1		4.8		4.7		1260		<889		70.3	
104-51-8	n-Butylbenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
103-65-1	n-Propylbenzene	<6.1		<4.5		<4.4		2660		<889		<7.6	
95-47-6	o-Xylene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
135-98-8	sec-Butylbenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
100-42-5	Styrene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
994-05-8	Tert-amyl methyl ether	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-65-0	Tert-Butanol / butyl alcohol	<61.4		<45.4		<44.0		<10900		<8890		<76.0	
98-06-6	tert-Butylbenzene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
127-18-4	Tetrachloroethene	40.9		<4.5		<4.4		<1090		<889		<7.6	
109-99-9	Tetrahydrofuran	<12.3		<9.1		<8.8		<2170		<1780		<15.2	
108-88-3	Toluene	<6.1		<4.5		<4.4		<1090		<889		14.4	
156-60-5	trans-1,2-Dichloroethene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
10061-02-6	trans-1,3-Dichloropropene	<6.1		<4.5		<4.4		<1090		<889		<7.6	
110-57-6	trans-1,4-Dichloro-2-butene	<30.7		<22.7		<22.0		<5430		<4450		<38.0	
79-01-6	Trichloroethene	6.1		<4.5		<4.4		<1090		<889		<7.6	
75-69-4	Trichlorofluoromethane (Freon 11)	<6.1		<4.5		<4.4		<1090		<889		<7.6	
75-01-4	Vinyl chloride	<6.1		<4.5		<4.4		<1090		<889		<7.6	
VOC Soil Extraction (N/A)													
NA	VOC Extraction	Field extracted		Field extracted		Field extracted		Field extracted		Field extracted		Field extracted	

Pilot Test Sampling
Soil Analytical Results
June 2011

Project Name: BASF - Cranston RI		Project ID: 60163799		ESS Project ID: 1105244							
	ClientSample:		**MW-100D 11-13**	**MW-100D 15-17**	**MW-100D 17-19**	**MP-2D 16-18**	**MP-2D 18-20**	**MP-2D 20-22**	**MP-3D 12-14**	**MP-3D 18-20**	**MP-3D 20-22**
	Sample No.		**1105244-01**	**1105244-02**	**1105244-03**	**1105244-04**	**1105244-05**	**1105244-06**	**1105244-07**	**1105244-08**	**1105244-09**
	Sample Date:		**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/19/2011**	**5/19/2011**	**5/19/2011**
	Sample Time:		**10:08**	**10:22**	**10:24**	**14:47**	**14:57**	**15:00**	**13:02**	**13:15**	**13:20**
Method Nam	**Analyte**	**Units**									
5035/8260B \	1,1,1,2-Tetrachloroethane	mg/kg dry	<0.0045								
5035/8260B \	1,1,1-Trichloroethane	mg/kg dry	<0.0045								
5035/8260B \	1,1,2,2-Tetrachloroethane	mg/kg dry	<0.0045								
5035/8260B \	1,1,2-Trichloroethane	mg/kg dry	<0.0045								
5035/8260B \	1,1-Dichloroethane	mg/kg dry	<0.0045								
5035/8260B \	1,1-Dichloroethene	mg/kg dry	<0.0045								
5035/8260B \	1,1-Dichloropropene	mg/kg dry	<0.0045								
5035/8260B \	1,2,3-Trichlorobenzene	mg/kg dry	<0.0045								
5035/8260B \	1,2,3-Trichloropropane	mg/kg dry	<0.0045								
5035/8260B \	1,2,4-Trichlorobenzene	mg/kg dry	<0.0045								
5035/8260B \	1,2,4-Trimethylbenzene	mg/kg dry	<0.0045								
5035/8260B \	1,2-Dibromo-3-Chloropropane	mg/kg dry	<0.0045								
5035/8260B \	1,2-Dibromoethane	mg/kg dry	<0.0045								
5035/8260B \	1,2-Dichlorobenzene	mg/kg dry	<0.0045								
5035/8260B \	1,2-Dichloroethane	mg/kg dry	<0.0045								
5035/8260B \	1,2-Dichloropropane	mg/kg dry	<0.0045								
5035/8260B \	1,3,5-Trimethylbenzene	mg/kg dry	<0.0045								
5035/8260B \	1,3-Dichlorobenzene	mg/kg dry	<0.0045								
5035/8260B \	1,3-Dichloropropane	mg/kg dry	<0.0045								
5035/8260B \	1,4-Dichlorobenzene	mg/kg dry	<0.0045								
5035/8260B \	1,4-Dioxane	mg/kg dry	<0.0897								
5035/8260B \	1-Chlorohexane	mg/kg dry	<0.0045								
5035/8260B \	2,2-Dichloropropane	mg/kg dry	<0.0045								
5035/8260B \	2-Butanone	mg/kg dry	<0.0448								
5035/8260B \	2-Chlorotoluene	mg/kg dry	<0.0045								
5035/8260B \	2-Hexanone	mg/kg dry	<0.0448								
5035/8260B \	4-Chlorotoluene	mg/kg dry	<0.0045								
5035/8260B \	4-Isopropyltoluene	mg/kg dry	<0.0045								
5035/8260B \	4-Methyl-2-Pentanone	mg/kg dry	<0.0448								
5035/8260B \	Acetone	mg/kg dry	**0.0585**								
5035/8260B \	Benzene	mg/kg dry	<0.0045								
5035/8260B \	Bromobenzene	mg/kg dry	<0.0045								
5035/8260B \	Bromochloromethane	mg/kg dry	<0.0045								
5035/8260B \	Bromodichloromethane	mg/kg dry	<0.0045								
5035/8260B \	Bromoform	mg/kg dry	<0.0045								
5035/8260B \	Bromomethane	mg/kg dry	<0.0090								
5035/8260B \	Carbon Disulfide	mg/kg dry	<0.0045								
5035/8260B \	Carbon Tetrachloride	mg/kg dry	<0.0045								
5035/8260B \	Chlorobenzene	mg/kg dry	**0.105**								
5035/8260B \	Chloroethane	mg/kg dry	<0.0090								
5035/8260B \	Chloroform	mg/kg dry	<0.0045								
5035/8260B \	Chloromethane	mg/kg dry	<0.0090								
5035/8260B \	cis-1,2-Dichloroethene	mg/kg dry	<0.0045								
5035/8260B \	cis-1,3-Dichloropropene	mg/kg dry	<0.0045								
5035/8260B \	Dibromochloromethane	mg/kg dry	<0.0045								
5035/8260B \	Dibromomethane	mg/kg dry	<0.0045								
5035/8260B \	Dichlorodifluoromethane	mg/kg dry	<0.0090								
5035/8260B \	Diethyl Ether	mg/kg dry	<0.0045								
5035/8260B \	Di-isopropyl ether	mg/kg dry	<0.0045								
5035/8260B \	Ethyl tertiary-butyl ether	mg/kg dry	<0.0045								
5035/8260B \	Ethylbenzene	mg/kg dry	<0.0045								
5035/8260B \	Hexachlorobutadiene	mg/kg dry	<0.0045								

Pilot Test Sampling
Soil Analytical Results
June 2011

	ClientSample:		**MW-100D 11-13**	**MW-100D 15-17**	**MW-100D 17-19**	**MP-2D 16-18**	**MP-2D 18-20**	**MP-2D 20-22**	**MP-3D 12-14**	**MP-3D 18-20**	**MP-3D 20-22**
	Sample No.		**1105244-01**	**1105244-02**	**1105244-03**	**1105244-04**	**1105244-05**	**1105244-06**	**1105244-07**	**1105244-08**	**1105244-09**
	Sample Date:		**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/19/2011**	**5/19/2011**	**5/19/2011**
	Sample Time:		**10:08**	**10:22**	**10:24**	**14:47**	**14:57**	**15:00**	**13:02**	**13:15**	**13:20**
Method Nam	**Analyte**	**Units**									
5035/8260B \	Isopropylbenzene	mg/kg dry	<0.0045								
5035/8260B \	Methyl tert-Butyl Ether	mg/kg dry	<0.0045								
5035/8260B \	Methylene Chloride	mg/kg dry	<0.0224								
5035/8260B \	Naphthalene	mg/kg dry	<0.0045								
5035/8260B \	n-Butylbenzene	mg/kg dry	<0.0045								
5035/8260B \	n-Propylbenzene	mg/kg dry	<0.0045								
5035/8260B \	sec-Butylbenzene	mg/kg dry	<0.0045								
5035/8260B \	Styrene	mg/kg dry	<0.0045								
5035/8260B \	tert-Butylbenzene	mg/kg dry	<0.0045								
5035/8260B \	Tertiary-amyl methyl ether	mg/kg dry	<0.0045								
5035/8260B \	Tetrachloroethene	mg/kg dry	<0.0045								
5035/8260B \	Tetrahydrofuran	mg/kg dry	<0.0045								
5035/8260B \	Toluene	mg/kg dry	<0.0045								
5035/8260B \	trans-1,2-Dichloroethene	mg/kg dry	<0.0045								
5035/8260B \	trans-1,3-Dichloropropene	mg/kg dry	<0.0045								
5035/8260B \	Trichloroethene	mg/kg dry	<0.0045								
5035/8260B \	Trichlorofluoromethane	mg/kg dry	<0.0045								
5035/8260B \	Vinyl Acetate	mg/kg dry	<0.0045								
5035/8260B \	Vinyl Chloride	mg/kg dry	<0.0090								
5035/8260B \	Xylene O	mg/kg dry	<0.0045								
5035/8260B \	Xylene P,M	mg/kg dry	<0.0090								
5035/8260B \	1,1,1,2-Tetrachloroethane	mg/kg dry		<0.128	<0.141	<0.137	<0.113	<0.140	<0.217	<0.119	<0.135
5035/8260B \	1,1,1-Trichloroethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,1,2,2-Tetrachloroethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,1,2-Trichloroethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,1-Dichloroethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,1-Dichloroethene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,1-Dichloropropene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,2,3-Trichlorobenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	**0.0522**	**0.0773**	**0.027**
5035/8260B \	1,2,3-Trichloropropane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,2,4-Trichlorobenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	**0.197**	**0.473**	**0.27**	**0.64**	**0.135**
5035/8260B \	1,2,4-Trimethylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	**0.0169**	**0.0265**	**0.228**	**0.0297**	**0.0243**
5035/8260B \	1,2-Dibromo-3-Chloropropane	mg/kg dry		<0.383	<0.424	<0.411	<0.339	<0.419	<0.652	<0.357	<0.405
5035/8260B \	1,2-Dibromoethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,2-Dichlorobenzene	mg/kg dry		**0.0919**	**0.0466**	**10.2**	**125**	**217**	**119**	**179**	**34.2**
5035/8260B \	1,2-Dichloroethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,2-Dichloropropane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,3,5-Trimethylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	**0.111**	**0.0131**	<0.0675
5035/8260B \	1,3-Dichlorobenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	**0.0858**	**0.135**	<0.109	**0.138**	**0.0338**
5035/8260B \	1,3-Dichloropropane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	1,4-Dichlorobenzene	mg/kg dry		**0.0268**	<0.0707	**0.235**	**1.24**	**1.99**	**0.878**	**1.59**	**0.281**
5035/8260B \	1,4-Dioxane - Screen	mg/kg dry		<6.38	<7.07	<6.84	<5.65	<6.98	<10.9	<5.95	<6.75
5035/8260B \	1-Chlorohexane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	2,2-Dichloropropane	mg/kg dry		<0.128	<0.141	<0.137	<0.113	<0.140	<0.217	<0.119	<0.135
5035/8260B \	2-Butanone	mg/kg dry		<1.59	<1.77	<1.71	<1.41	<1.75	<2.72	<1.49	<1.69
5035/8260B \	2-Chlorotoluene	mg/kg dry		**2.27**	**5.56**	**0.443**	**0.746**	**1.53**	**0.0848**	**2.2**	**0.466**
5035/8260B \	2-Hexanone	mg/kg dry		<0.638	<0.707	<0.684	<0.565	<0.698	<1.09	<0.595	<0.675
5035/8260B \	4-Chlorotoluene	mg/kg dry		**0.137**	**0.148**	**0.0219**	**0.0316**	**0.0712**	<0.109	**0.132**	**0.0459**
5035/8260B \	4-Isopropyltoluene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	**0.0739**	<0.0595	<0.0675
5035/8260B \	4-Methyl-2-Pentanone	mg/kg dry		<0.638	<0.707	<0.684	<0.565	<0.698	<1.09	<0.595	<0.675
5035/8260B \	Acetone	mg/kg dry		<1.59	<1.77	<1.71	**0.45**	<1.75	<2.72	<1.49	**0.609**
5035/8260B \	Benzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	**0.0195**	**0.628**	**0.019**	**0.0216**
5035/8260B \	Bromobenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Bromochloromethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675

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	ClientSample:		**MW-100D 11-13**	**MW-100D 15-17**	**MW-100D 17-19**	**MP-2D 16-18**	**MP-2D 18-20**	**MP-2D 20-22**	**MP-3D 12-14**	**MP-3D 18-20**	**MP-3D 20-22**
	Sample No.		**1105244-01**	**1105244-02**	**1105244-03**	**1105244-04**	**1105244-05**	**1105244-06**	**1105244-07**	**1105244-08**	**1105244-09**
	Sample Date:		**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/18/2011**	**5/19/2011**	**5/19/2011**	**5/19/2011**
	Sample Time:		**10:08**	**10:22**	**10:24**	**14:47**	**14:57**	**15:00**	**13:02**	**13:15**	**13:20**
Method Nam	**Analyte**	**Units**									
5035/8260B \	Bromodichloromethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Bromoform	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Bromomethane	mg/kg dry		<0.128	<0.141	<0.137	<0.113	<0.140	<0.217	<0.119	<0.135
5035/8260B \	Carbon Disulfide	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Carbon Tetrachloride	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Chlorobenzene	mg/kg dry		**4.75**	**1.86**	**20.6**	**4.11**	**6.44**	**39.2**	**7.37**	**3.16**
5035/8260B \	Chloroethane	mg/kg dry		<0.128	<0.141	<0.137	<0.113	<0.140	<0.217	<0.119	<0.135
5035/8260B \	Chloroform	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Chloromethane	mg/kg dry		<0.128	<0.141	<0.137	<0.113	<0.140	<0.217	<0.119	<0.135
5035/8260B \	cis-1,2-Dichloroethene	mg/kg dry		<0.0638	<0.0707	<0.0684	**0.0282**	**0.0321**	**1.39**	**0.063**	**0.0648**
5035/8260B \	cis-1,3-Dichloropropene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Dibromochloromethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Dibromomethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Dichlorodifluoromethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Diethyl Ether	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Di-isopropyl ether	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Ethyl tertiary-butyl ether	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Ethylbenzene	mg/kg dry		<0.0638	<0.0707	**0.0151**	**0.0226**	**0.0475**	**0.906**	**0.0404**	**0.0189**
5035/8260B \	Hexachlorobutadiene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Isopropylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	**0.037**	<0.0595	<0.0675
5035/8260B \	Methyl tert-Butyl Ether	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Methylene Chloride	mg/kg dry		**0.0408**	**0.0679**	**0.0356**	**0.0441**	**0.0335**	**0.0761**	**0.0309**	**0.05**
5035/8260B \	Naphthalene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	**2.38**	**0.445**	**0.15**
5035/8260B \	n-Butylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	n-Propylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	sec-Butylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	**0.0239**	<0.0595	<0.0675
5035/8260B \	Styrene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	tert-Butylbenzene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Tertiary-amyl methyl ether	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Tetrachloroethene	mg/kg dry		<0.0638	<0.0707	<0.0684	**1.22**	**1.57**	**0.128**	**0.847**	**0.155**
5035/8260B \	Tetrahydrofuran	mg/kg dry		<0.638	<0.707	<0.684	<0.565	<0.698	<1.09	<0.595	<0.675
5035/8260B \	Toluene	mg/kg dry		<0.0638	**0.0297**	<0.0684	**0.0339**	**0.0935**	**15.6**	**0.144**	**0.259**
5035/8260B \	trans-1,2-Dichloroethene	mg/kg dry		<0.0638	<0.0707	**0.0438**	**0.0282**	**0.0251**	**0.0522**	**0.025**	<0.0675
5035/8260B \	trans-1,3-Dichloropropene	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Trichloroethene	mg/kg dry		<0.0638	<0.0707	<0.0684	**0.0316**	**0.0237**	**0.0609**	**0.0178**	<0.0675
5035/8260B \	Trichlorofluoromethane	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Vinyl Acetate	mg/kg dry		<0.319	<0.353	<0.342	<0.282	<0.349	<0.543	<0.297	<0.338
5035/8260B \	Vinyl Chloride	mg/kg dry		<0.0638	<0.0707	<0.0684	<0.0565	<0.0698	<0.109	<0.0595	<0.0675
5035/8260B \	Xylene O	mg/kg dry		<0.0638	**0.0212**	<0.0684	**0.0158**	**0.0391**	**1.26**	**0.0416**	**0.0216**
5035/8260B \	Xylene P,M	mg/kg dry		<0.128	<0.141	<0.137	**0.0373**	**0.101**	**1.84**	**0.0571**	**0.0324**

AS/SVE Pilot Test
Vapor Analytical Results
June 2011

Con-Test Analytical Laboratory	Client	AECOM Environment - Chelmsford, MA				
Analytical Testing Report	Attention	Dave Macone				
Work Order: 11G0440	Project Name	Cranston, RI				
Report Date: 7/26/2011 3:52:03 PM	Project Number	[none]				
Note: This is not the original data. Please refer to PDF / Hardcopy report.						
General Method	Analyte	Units				
LAB ID			11G0440-01	11G0440-02	11G0440-03	11G0440-04
CLIENT ID			SVE-1-1	SVE-1-2	SVE-1-3	SVE-1-4
DATE SAMPLED			12-Jul-11	12-Jul-11	13-Jul-11	13-Jul-11
DATE RECEIVED			15-Jul-11	15-Jul-11	15-Jul-11	15-Jul-11
MATRIX			Air	Air	Air	Air
Air Toxics by EPA Compendium Methods	Acetone	ppbv	<20	<20	<20	<20
Air Toxics by EPA Compendium Methods	Benzene	ppbv	<1.0	<1.0	3.2	10
Air Toxics by EPA Compendium Methods	Benzyl chloride	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Bromodichloromethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Bromoform	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Bromomethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,3-Butadiene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	2-Butanone (MEK)	ppbv	<20	<20	<20	<20
Air Toxics by EPA Compendium Methods	Carbon Disulfide	ppbv	<1.0	<1.0	1.2	3.2
Air Toxics by EPA Compendium Methods	Carbon Tetrachloride	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Chlorobenzene	ppbv	<1.0	83	330	1100
Air Toxics by EPA Compendium Methods	Chloroethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Chloroform	ppbv	<1.0	3	3.7	3.7
Air Toxics by EPA Compendium Methods	Chloromethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Cyclohexane	ppbv	5.9	4.4	11	25
Air Toxics by EPA Compendium Methods	Dibromochloromethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,2-Dibromoethane (EDB)	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,2-Dichlorobenzene	ppbv	<1.0	18	60	110
Air Toxics by EPA Compendium Methods	1,3-Dichlorobenzene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,4-Dichlorobenzene	ppbv	<1.0	<1.0	1.1	1.8
Air Toxics by EPA Compendium Methods	Dichlorodifluoromethane (Freon 1	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,1-Dichloroethane	ppbv	<1.0	1.1	2.3	3.3
Air Toxics by EPA Compendium Methods	1,2-Dichloroethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,1-Dichloroethylene	ppbv	<1.0	<1.0	<1.0	1.8
Air Toxics by EPA Compendium Methods	cis-1,2-Dichloroethylene	ppbv	4.6	36	350	660
Air Toxics by EPA Compendium Methods	trans-1,2-Dichloroethylene	ppbv	<1.0	4.8	12	24
Air Toxics by EPA Compendium Methods	1,2-Dichloropropane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	cis-1,3-Dichloropropene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	trans-1,3-Dichloropropene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,2-Dichloro-1,1,2,2-tetrafluoroeth	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Ethanol	ppbv	<20	<20	<20	<20
Air Toxics by EPA Compendium Methods	Ethyl Acetate	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Ethylbenzene	ppbv	47	26	56	45
Air Toxics by EPA Compendium Methods	4-Ethyltoluene	ppbv	46	23	59	34
Air Toxics by EPA Compendium Methods	Heptane	ppbv	25	33	110	280
Air Toxics by EPA Compendium Methods	Hexachlorobutadiene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Hexane	ppbv	8	4.7	8.7	9.6
Air Toxics by EPA Compendium Methods	2-Hexanone (MBK)	ppbv	<20	<20	<20	<20
Air Toxics by EPA Compendium Methods	Isopropanol	ppbv	<10	<10	<10	<10
Air Toxics by EPA Compendium Methods	Methyl tert-Butyl Ether (MTBE)	ppbv	2.4	1.7	2.4	1.9
Air Toxics by EPA Compendium Methods	Methylene Chloride	ppbv	<10	<10	<10	<10
Air Toxics by EPA Compendium Methods	4-Methyl-2-pentanone (MIBK)	ppbv	<1.0	<1.0	<1.0	<1.0

AS/SVE Pilot Test
Vapor Analytical Results
June 2011

General Method	Analyte	Units				
LAB ID			11G0440-01	11G0440-02	11G0440-03	11G0440-04
CLIENT ID			SVE-1-1	SVE-1-2	SVE-1-3	SVE-1-4
DATE SAMPLED			12-Jul-11	12-Jul-11	13-Jul-11	13-Jul-11
DATE RECEIVED			15-Jul-11	15-Jul-11	15-Jul-11	15-Jul-11
MATRIX			Air	Air	Air	Air
Air Toxics by EPA Compendium Methods	Propene	ppbv	<10	<10	<10	<10
Air Toxics by EPA Compendium Methods	Styrene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,1,2,2-Tetrachloroethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Tetrachloroethylene	ppbv	30	290	360	360
Air Toxics by EPA Compendium Methods	Tetrahydrofuran	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Toluene	ppbv	5.2	4.7	16	95
Air Toxics by EPA Compendium Methods	1,2,4-Trichlorobenzene	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,1,1-Trichloroethane	ppbv	1.4	7.9	9	7.5
Air Toxics by EPA Compendium Methods	1,1,2-Trichloroethane	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	Trichloroethylene	ppbv	3.9	28	41	87
Air Toxics by EPA Compendium Methods	Trichlorofluoromethane (Freon 11	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,1,2-Trichloro-1,2,2-trifluoroetha	ppbv	<1.0	<1.0	<1.0	<1.0
Air Toxics by EPA Compendium Methods	1,2,4-Trimethylbenzene	ppbv	320	99	400	250
Air Toxics by EPA Compendium Methods	1,3,5-Trimethylbenzene	ppbv	120	46	150	92
Air Toxics by EPA Compendium Methods	Vinyl Acetate	ppbv	<20	<20	<20	<20
Air Toxics by EPA Compendium Methods	Vinyl Chloride	ppbv	<1.0	7.3	130	240
Air Toxics by EPA Compendium Methods	m&p-Xylene	ppbv	180	87	200	140
Air Toxics by EPA Compendium Methods	o-Xylene	ppbv	64	31	73	48

Chains of Custody

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP* Navy USACE Other _____

Reporting Limits: RIDEM GB

ESS LAB PROJECT ID:

Electronic Deliverable: X Yes ___ No Format _____

Co. Name: AECOM
Project #: 60163799
Project Name (20 Char. or less):
Contact Person: Joanne Lynch
Address: 2 Technology Park Drive
City: Westford State: MA Zip: PO#:
Telephone #: 978-589-3408 Fax #: Email Address: joanne.lynch@aecom.com

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	624 / 524.2 / (8260)	8021 MTBE/BTEX / 8015 GRO / VPH	8100 TPH / 8015 DRO / EPH	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB / No Targets	8270 / 625 / PAH only	RCRA5 / RCRA8 / PP13 / TAL23	TCLP8 / MCP / MCPw/Hg / NBC7							
	5/19/11	1320		X	S	MP-3D (20-22)	4	V,G	X													

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: _____
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Luis A. Ferreira	5/19/11 1700	[signature]	5/20/11 1040				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time: X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

Reporting Limits: RIDEM GB

ESS LAB PROJECT ID:

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other _____

Electronic Deliverable: X Yes ___ No Format _____

Is this project for any of the following:
MA-MCP* Navy USACE Other _____

Co. Name: AECOM
Project #: 60163799
Project Name (20 Char. or less): BASF
Contact Person: Joanne Lynch
Address: 2 Technology Park Drive
City: Westford State: MA Zip: PO#:
Telephone #: 978-589-3408 Fax #: Email Address: joanne.lynch@aecom.com

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	8260 / 624 / 524.2	8021 MTBE/BTEX / 8015 GRO / VPH	8100 TPH / 8015 DRO / EPH	8081 Pesticides / 8082 PCB / No Targets	8270 / 625 / 608 Pesticides / 608 PCB	RCRA5 / RCRA8 / PP13 / PAH only	TCLP8 / MCP / MCPw/Hg / TAL23 / NBC7							
	5/18/11	1008		X	S	MW-100D (11-13)	4	V,G	X													
		1022				MW-100D (15-17)																
		1024				MW-100D (17-19)																
		1447				MP-2D (16-18)																
		1457				MP-2D (18-20)																
		1500				MP-2D (20-22)																
						Trip Blank	3	V														
	5/19/11					Trip Blank	3	V														
		1302		X	S	MP-3D (12-14)	4	V,G														
		1315		X	S	MP-3D (18-20)	4	V,G														

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: _____
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Comments: Frozen DI VOAs were frozen ~~@~~ on 5/18/11 at 5pm.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Luis A. Ferreira	5/19/11 1700	[illegible]	5/20/11 1040				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

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CHAIN OF CUSTODY

Page 1 of 1

Turn Time: X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____
State where samples were collected from: MA (RI) CT NH NJ NY ME Other _____
Is this project for any of the following: MA-MCP* Navy USACE Other _____

Reporting Limits: RIDEMGB

ESS LAB PROJECT ID:

Electronic Deliverable: X Yes ___ No Format _____

Co. Name: AECOM
Project #: 60163799
Project Name (20 Char. or less): BASF
Contact Person: Joanne Lynch
Address: 2 Technology Park Drive
City: Westford State: MA Zip: PO#:
Telephone #: 978-589-3408 Fax #: Email Address: joanne.lynch@aecom.com

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	8260 (524.2)	624	8021 MTBE/BTEX	8015 GRO	VPH	8100 TPH	8015 DRO	EPH	No Targets	8081 Pesticides	8082 PCB	608 Pesticides	608 PCB	8270	625	PAH only	RCRA5	RCRA8	PP13	TAL23	TCLP8	MCP	MCPw/Hg	NBC7
	5/23/11	0830		X	S	MP-1D (8-10)	4	V,G	X																							
	5/23/11	0840		X	S	MP-1D (12-13)	4	V,G	X																							
	5/23/11	0902		X	S	MP-1D (18-20)	4	V,G	X																							
	5/23/11	0730				Trip Blank	3	V	X																							

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: _____
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Lina A. Ferreira	5/24/11 10:15	Carl Stone	5/24/11 10:15				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

Pilot Test Data Sheets

Step Test

Page 1 of _____

AECOM

DATE: 7/12/11

Extraction Well ID: SVE-1

Job #

Site ID: BASF - Cranston

Site Address: 180 Mill Street

City, State: Cranston, RI

Time (min)	VAC (" H_2O)	Soil Vapor Velocity (ft/min)	Temp (°F)	SCFM (calculated)	ACFM (calculated)
Static	---	---	---	---	---
1005	5.2	690		40	
1008	3.4	330		38.4	
1009	0.3	86		7.5	
1010	2.2	260		22.7	
1015	2.6	313		27.3	

Notes: NM - Not Measured

Diameter of Pipe (in):	2	4	6
Cross Sectional Area ft^2:	0.0218	0.0873	0.1963

	Make	Model #	Calibrated
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 33'-1
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 35'-10" 32'-1"

Monitoring Well ID: MP-1I
Well Diameters (in): 2.5
Initial DTP (ft): _____
Initial DTW (ft): 7.08
DTB (ft): 21.83 ~~16.82~~ (22)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline				0.21	2.1	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				5.4	0	21.2	0		
1100	0.0		7.08							
1115	0.0				1.8	0	21.3	0		
1130	0.00									
1145	0.00				1.0	0	21.3	0		
1200	0.00									
1215	0.00				0.5	0	21.3	0		
1300	0.002									
1315	0.002				4.3	0	21.3	0		
1330	0.002		7.07							
1345	0.002									
1400	0.002									
1415	0.002				3.7	0	21.2	0		
1430	0.002									
1445	0.002									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-1I

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.00				3.20	0	21.2	0		
1530	0.013									
1545	0.002									
1600	.003									
1615	0.000				2.9	0	21.2	0		
1630	0.000		7.05							
1645	0.000									
1700	0.017									
1740			6.86							
1805			6.63							
1830	-0.022		6.57		4.4	0	21.3	0		
1930			6.55							
2000			6.43		22.1	0	21.3	0		
2030			6.43							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Monitoring Well ID: MP-1I

Air Sparge Well ID: AS-2 1CFM@7PSI

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.17	0.29						
0840	+0.03		7.08							
0900	+0.07		7.03		0.9	0	20.9	0		
0910			7.02							
0920			7.01							
0930	+0.002		7.01	0.30						
0950			7.00							
1005	+0.06		7.00		0.7	0	21.2	0		
1030			7.00	0.38						
1100	+0.05		7.00		0.5	0	21.5	0		
1130			7.00	0.33						
1200	+0.02		7.00							
12	Step	2	@							
1230			6.10							
1250	+0.06		5.80	~~4.4~~	4.4					
1315			5.36	0.68						
1345	+0.006		5.25							
1415			5.31	0.26	1.4					
1445	0.000		6.02							
1515			6.18	0.29	0.8					

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: _____

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): _____
Air Sparge Well ID: AS-1
Distance to Air Sparge Well (ft): _____

Monitoring Well ID: MP-1S
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 6.83
DTB (ft): 14.86 (13

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline				0.18	1.6	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				7.5	0	21.3	0		
1100	0.0		6.83							
1115	0.0				1.3	0	21.3	0		
1130	0.00									
1145	0.00				1.1	0	21.3	0		
1200	0.00									
1215	0.00				0.8	0	21.3	0		
1300	0.00									
1315	0.021				3.6	0	21.2	0		
1330	0.030		6.81							
1345	0.021									
1400	0.020									
1415	0.009				2.3	0	21.3	0		
1430	0.009									
1445	0.010									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-13

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.00				0.6	0	21.3	0		
1530	0.00									
1545	0.009									
1600	0.010									
1615	0.010				2.0	0	21.3	0		
1630	0.010		6.80							
1645	0.006									
1700	0.000									
1740			6.84							
1805			6.87							
1830	-0.001		6.90		2.1	0	21.3	0		

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: AS-1

Monitoring Well ID: MP-1S

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.00	0.17						
0840	+0.01		7.00							
0900	+0.02		6.90		1.2	0	20.9	0		
0910			6.99							
0920			7.00							
0930	+0.001		7.00	0.14						
0960			7.00							
1000	+0.03		7.00		0.9	0	21.1	0		
1080			7.01	0.24						
1100	+0.01		7.00		0.3	0	21.4	0		
1130			7.00	.19						
1200	+0.11		7.00							
1230			6.98							
1250	+0.01		6.97		1.0					
1315			6.95	0.24						
1345	+0.04		6.95							
1415			6.95	0.30	1.0					
1445	+0.001		6.95							
1515			6.95	0.35	1.0					

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 28'-11"

Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 31'-10" 27'-5"

Monitoring Well ID: MP-1D
Well Diameters (in): 1.5
Initial DTP (ft): NM
Initial DTW (ft): 6.87
DTB (ft): 32.77 (32)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	6.87	0.21	1.2	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				8.2	0	21.3	0		
1100	0.0		6.86							
1115	0.0				3.3	0	21.4	0		
1130	0.00									
1145	0.015				3.0	0	21.4	0		
1200	0.016									
1215	0.016				2.1	0	21.4	0		
1300	0.01									
1315	0.002				3.3	0	21.3	0		
1330	0.002		6.86							
1345	0.009									
1400	0.010									
1415	0.010				1.5	0	21.2	0		
1430	0.010									
1445	0.010									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:	Min-Rae	2000	✓
Equipment:	V Rae		✓
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-1D

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.011				3.3	0	21.3	0		
1530	0.000									
1545	0.002									
1600	0.003									
1615	+7.41				2.6	0.0	21.3	0		
1630	+7.41		6.87							
1645	0.010									
1700	0.010									
			6.1							
1740			↓							
1805			5.25	0.35						
1830			5.08	0.21	2.9	0	21.3	0		
1900			5.18	0.49						
1930			5.30	0.42						
2000			5.36	0.41	17.1	0	21.3	0		
2030			5.33							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: AS-2

Monitoring Well ID: MP-10

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.06	0.72						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page 1 of

DATE:
Job #
Site ID:
Site Address:
City, State:

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 3'-5"
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 7'-8" 9'-4"

Monitoring Well ID: MP-3S
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 5.45
DTB (ft): 14.60 (13)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	5.45	0.31	1.2	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				10.8	0	21.4	0		
1100	0.0		5.40							
1115	0.0				3.9	0	21.3	0		
1130	0.00									
1145	0.010				2.8	0	21.3	0		
1200	0.020									
1215	0.020				1.8	0	21.3	0		
1300	0.010									
1315	0.020				4.3	0	21.4	0		
1330	0.030		5.35							
1345	0.030									
1400	0.030									
1415	0.009				4.4	0	21.4	0		
1430	0.009									
1445	0.009									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-3S

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.016				5.9	0	21.3	0		
1530	0.000									
1545	0.000									
1600	0.000									
1615	0.000				4.8	0	21.3	0		
1630	0.000		5.34							
1645	0.008									
1700	0.010									
1740			5.51							
1805			5.50							
1830	-0.029		5.51		25.1	0	20.3	0		

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-3S

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			5.62	0.68						
0845	+0.04		5.65							
0900	+0.2		5.60		1.647T	0	20.9	0		
0910			5.58							
0920			5.58							
0930	+0.41		5.58	1.9						
0950			5.58							
1005	+0.60		5.58							
1030			5.58	5.6						
1100	+0.69		5.60		7.7	0	21.2	0		
1130			5.61	7.1						
1200	+1.1		5.60							
1230			4.33							
1250	+15.3		5.32	202 →						
1315			5.32	12.7						
1345	1 off Scale		5.35							
1415			5.37	12.3	185					
1445	+14.2		5.43							
1515			5.40	12.7	191					

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page 1 of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): _____
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 7'-8" 9'-4"

Monitoring Well ID: MP-3I
Well Diameters (in): 1.5
Initial DTP (ft): NM
Initial DTW (ft): 5.90
DTB (ft): 22.23 (22)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline			5.90	0.26	1.2	0	20.9	0		
Step - 1										
1050	0.0				2.1	0				
1045	0.0				2.1	0	21.3	0		
1100	0.0		5.84							
1115	0.0				3.0	0	21.4	0		
1130	0.0									
1145	0.003				2.8	0	21.3	0		
1200	0.003									
1215	0.003				2.0	0	21.3	0		
1300	0.002									
1315	0.002				4.1	0	21.3	0		
1330	0.002		5.85							
1345	0.002									
1400	0.002									
1415	0.002				3.4	0	21.4	0		
1430	0.002									
1445	0.010									
		Step 3 Second Page								

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/12/4

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-3I

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.012				3.4	0	21.2	0		
1530	0.003									
1545	0.001									
1600	0.01									
1615	-0.01				3.0	0	21.2	0		
1630	0.01		5.85							
1645	0.006									
1700	0.001									
sparge										
1740			4.85							
1805			4.55							
1830	-3.24		6.08		78.3	0	16.5	0		
1930			4.65							
2000			4.62	~~101~~	101	2	15.8	0		
2030			4.55							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: AS-2

Monitoring Well ID: MP-3I

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
0750			6.5	2.1						
0840	+0.52		6.8							
0900	+1.3		5.94		47.7	0	20.9	0	27	
0910			5.87							
0920			5.80							
0930	+0.031		5.76	1.4						
0950			5.76							
1000	0.07		6.02							
1030			6.05	1.0						
1100	+0.15		6.07		3.3	0	21.2	0		
1130			6.08	0.84						
1200	+0.17		6.05							
			bubblimeter 223 →							
1230			5.10							
1255	+5.20		4.1	503 →						
1315			4.20	9.9						
1345	+6.80		4.30							
1415			4.32	9.5	153					
1445	+0.18		5.13							
			5.18	8.9	157					

Notes: NM - Not Measured

Walter Allen : 944 1834
286 8300 (cell)

AECOM

Monitoring Testing Data

Page 1 of

DATE: 7/12/11
Job #
Site ID:
Site Address:
City, State:

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 30'-4"

Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 37'-8" 36.8

Monitoring Well ID: MW-2S
Well Diameters (in): 4"
Initial DTP (ft): NM
Initial DTW (ft): 6.79
DTB (ft): 18.78

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	6.79	0.18	3.2	0	21.7	0		
Step - 1										
1030	0.0								found leak at	
1045	0.0				3.2	0	21.2	0	ramp up time to	
1100	0.0		6.75						step 2	
1115	0.0				1.9	0	21.2	0	actual flowrates	
1130	0.00								at 7.5 cfm	
1145	0.00				1.8	0	21.2	0		
1200	0.00									
1215	0.00				1.0	0	21.2	0		
			Step 2		~~75 CFM @~~ 9.3 ~~25~~ CFM @				1245	
1300	0.001									
1315	0.000				3.9	0	21.3	0		
1330	0.000		6.72							
1345	0.000									
1400	0.000									
1415	0.000				1.2	0	21.3	0		
1430	0.000									
1445	0.001									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MW-2S

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
tp3 1515	0.001				2.9	0	21.3	0		
1530	0.00									
1545	0.00									
1100	0.00									
1615	0.00				2.1	0	21.3	0		
1630	0.00		6.71							
1645	0.00									
1700	0.00		~~7.01~~							
1830			7.01		2.2	0	20.3	0		

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MW-2S

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.00							
0840	0		7.00							
	0		7.0							
0900	0		~~6.62~~ 7.00		0	0	20.9	0		
0910			7.00							
0920			7.00							
0930										
1005			7.00							
1030			7.00							
1100			7.00							
1130			7.00							
1230			7.05							
1250			7.05							
1445	NM		7.05							
1515			7.05							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 14'-8"
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 22'-9" 21'-10"

Monitoring Well ID: P-2D
Well Diameters (in): 1.5"
Initial DTP (ft): NM
Initial DTW (ft): 7.15
DTB (ft): 51.42

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	7.15	0.28	4.5	0	21.6	0		
Step - 1										
1030	0.0									
1045	0.0				4.3	0	21.3	0		
1100	0.0		7.13							
1115	0.0				2.3	0	21.2	0		
1130	0.00									
1145	0.00				2.1	0	21.2	0		
1200	0.00									
1215	0.00				1.8	0	21.2	0		
1300	0.000									
1315	0.000				1.6	0	21.3	0		
1330	0.000		7.14							
1345	0.000									
1400	0.000									
1415	0.000				1.7	0	21.3	0		
1430	0.000									
1445	0.000									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: SVE-1

Monitoring Well ID: P-2D

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.00				2.2	0	21.2	0		
1530	0.00									
1545	0.00									
1600	0.00									
1615	0.00				2.6	0	21.2	0		
1630	0.00		7.14							
1645	0.00									
1700	0.00									
1830			6.90		2.9	0	21.2	0		
1900			7.04							
1930			7.04							
2000		7.04	~~0.90~~		10.1	0	21.2	0		
2030			7.04	bubbles						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: P-2D

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.15							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 74'-10"

Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 69'-3" 71'-10"

Monitoring Well ID: MW-101S
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 15.88 6.40
DTB (ft): ↓ (15)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	6.40	0.19	1.6	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				2.5	0	21.3	0		
1100	0.0		6.40							
1115	0.0				3.2	0	21.3	0		
1130	0.00									
1145	0.00				2.7	0	21.3	0		
1200	0.00									
1215	0.00				2.0	0	21.3	0		
1300	0.00									
1315	0.00				1.3	0	21.6	0		
1330	0.00		6.40							
1345	0.000									
1400	0.000									
1415	0.000				1.7	0	21.3	0		
1430	0.000									
1445	0.000									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: MW-101S

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
~~1245~~ 1515	0.00				3.5	0	21.3	0		
1530 ~~1530~~	0.00									
1545	0.00									
1600	0.00									
1615	0.00				2.6	0	21.3	0		
1630	0.00		6.40							
1645	0.00									
1700	0.00									
1805			6.48							
1830	-0.012		6.48		2.5	0	21.3	0		
7/19			~~6.52~~							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MW-1015

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			6.52	0.18						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 8/12/11
Job #
Site ID:
Site Address:
City, State:

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 77'-10"

Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 85'-2" 85'-3"

Monitoring Well ID: MW-101D
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 6.58
DTB (ft): 24.85 (25)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	6.58	0.17	3.4	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0		~~6.58~~		2.1	0	21.3	0		
1100	0.0		6.58							
1115	0.0				3.4	0	21.2	0		
1130	0.00									
1145	0.00				3.0	0	21.2	0		
1200	0.00									
1215	0.00		~~6.58~~		2.1	0	21.2	0		
1300	0.00									
1315	0.000				2.5	0	21.4	0		
1330	0.000		6.55							
1345	0.000									
1400	0.000									
1415	0.000				2.2	0	21.4	0		
1430	0.000									
1445	0.000									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: MW-101D

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
~~1215~~ 1515	0.00				2.2	0	21.2	0		
1530 ~~1530~~	0.00									
1545	0.00									
1600	0.01									
1615	0.01				1.9	0	21.2	0		
1630	0.01		6.58							
1645	0.01									
1700	0.00									
			6.70							
1805			6.61	0.20						
1830	0.00		6.38	0.20	2.1	0	21.3	0		
1900			6.56							
1930			6.54	~~0.19~~						
2000			6.60	0.19	1.5	0	21.3	0		
2030			6.54							
7/14 0800			~~6.95~~							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/13

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MW-101D

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			6.95	0.20						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE1
Distance to Extraction Well (ft): 46'

Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 38.9' 41.8'

Monitoring Well ID: MW-100S
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 5.93
DTB (ft): 16.68 (15)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	5.93	0.26	1.9	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				2.5	0	21.4	0		
1100	0.0		5.93							
1115	0.0				3.7	0	21.2	0		
1130	0.00									
1145	0.010				3.5	0	21.3	0		
1200	0.010									
1215	0.010				2.8	0	21.3	0		
1300	-0.001									
1315	-0.003				2.2	0	21.3	0		
1330	-0.006		5.93							
1345	-0.008									
1400	-0.008									
1415	-0.010				2.7	0	21.3	0		
1430	-0.010									
1445	0.010									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: MW-1005

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
~~1515~~ 1515	0.00				2.5	0	21.3	0		
1530	0.018									
1545	0.02									
1600	0.04									
1615	0.030				2.2	0	21.3	0		
1630	0.030		5.93							
1645	0.025									
1700	0.020									
1805			6.0							
1830	-0.035		6.0		1.7	0	21.3	0		

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MW-100S

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			6.05	0.30						
0840	+0.02		6.05							
0900	+0.04		6.05		0	0	20.9	0		
0910			6.04							
0920			6.04							
0930			6.04	0.29						
0950			6.04							
1005	tollcd		6.04							
1030			6.05	0.29						
1100			6.05		0	0	21.5	0		
1130			6.05	0.28						
1200	*0.102		6.05							
1230			5.99							
1250			5.97							
1315			5.95	0.19						
1345			5.95							
1415			5.95							
1445	+0.10		5.97							
1515			5.97							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page 1 of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 50'-4"
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 48'-0" 45'-8"

Monitoring Well ID: MW-100D
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 6.40
DTB (ft): 25' (25)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	6.40	0.22	1.8	0	20.9	0		
Step - 1										
1030	0.0									
1045	0.0				2.2	0	21.3	0		
1100	0.0		6.40							
1115	0.0				2.9	0	21.3	0		
1130	0.00									
1145	0.00				2.7	0	21.3	0		
1200	0.00									
1215	0.00				2.1	0	21.3	0		
1300	-0.004									
1315	-0.006				2.0	0	21.3	0		
1330	-0.001		6.40							
1345	0.009									
1400	0.030									
1415	0.030				2.4	0	21.4	0		
1430	0.030									
1445	0.030									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: MW-100D

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
~~[illegible]~~ 1515	0.00				3.1	0	21.3	0		
1515 ~~1530~~	0.021									
1530	0.019									
1545	0.02									
1600	0.01									
1615	0.01				2.3	0	21.3	0		
1630	0.01		6.40							
1645	0.006									
1700	0.001									
1740			5.95							
1805			6.78	0.25						
1830			5.78	0.18	1.7	0	21.3	0		
1900			5.74							
1930			6.78							
2000			5.18	~~[illegible]~~ 0.22	1.3	0	21.3	0		
2030			5.77							

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MW-100D

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.35	0.61						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page 1 of

DATE:
Job #
Site ID:
Site Address:
City, State:

Extraction Well ID: SVE-1
Distance to Extraction Well (ft):
Air Sparge Well ID: AS-1
Distance to Air Sparge Well (ft):

Monitoring Well ID: MP-2F
Well Diameters (in): 1.5
Initial DTP (ft): NM
Initial DTW (ft): 7.40
DTB (ft): 23.87 (22)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline		NM	7.40	0.87	3.7	0	20.6	0		
Step - 1										
1030	0.0									
1045	0.0				4.0	0	21.4	0		
1100	0.0		7.39							
1115	0.0				3.2	0	21.4	0		
1130	0.00									
1145	0.014				3.0	0	21.4	0		
1200	0.014									
1215	0.014				2.5	0	21.4	0		
~~1245~~	~~0.016~~									
1300	0.010									
1315	0.000				0.7	0	21.3	0		
1330	0.000		7.38							
1345	0.006									
1400	0.008									
1415	0.010				3.5	0	21.3	0		
1430	0.010									
1445	0.010									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-2I

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.012				3.1	0	21.3	0		
1530	+0.63									
1545	-0.01									
1600	-0.03									
1615	+0.1				3.8	0	21.3	0		
1630	+0.1		7.38							
1645	0.010									
1700	0.008									
1740			6.82							
1805			6.60							
1830	-0.011		6.38		3.4	0	21.3	0		
1930			6.55							
2000			6.60		4.2	0	21.2	0		
2030			6.56							

Notes: NM - Not Measured

AS-1

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-2I

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.50	0.6						
0840	-0.14		7.05							
0900	+0.6		7.08		0.6	0	20.9	0		
0910			7.08							
0920			7.07							
0930	+0.001		7.07	0.70						
0950			7.00							
1005	+0.03		7.06		0.3	0	21.2	0		
1030			7.06	1.0						
1100	+0.06		6.92		0.2	0	21.5	0		
1130			6.94	0.41						
1200	+0.003		7.00							
1220			3.55	559 →						
1250	+11.2		3.40	666 →						
1315			3.37	11.6						
1345	off scale		2.95							
1415	+0		3.98	~~5.366~~ 10.9	3666					
1445	+13.9		4.30							
1515			4.00	12.0	281					

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page 1 of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 17' ~~10'~~ ~~8'~~
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 10' 10'-2"

Monitoring Well ID: MP-2D
Well Diameters (in): 1.5
Initial DTP (ft): NM
Initial DTW (ft): ~~7.42~~ 6.73
DTB (ft): 32.79 (32)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline		NM	6.73	0.80						
Step - 1										
1030	0.0									
1045	0.0				1.1	0	21.3	0		
1100	0.0		6.69							
1115	0.0				3.9	0	21.2	0		
1130	0.00									
1145	0.032				3.7	0	21.2	0		
1200	0.06									
1215	0.06				3.0	0	21.2	0		
1300	0.00									
1315	0.030				2.8	0	21.3	0		
1330	0.030		6.65							
1345	+0.010									
1400	+0.10									
1415	+0.17				2.7	0	21.4	0		
1430	+0.10									
1445	+0.15									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: MP-2D

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.013				2.4	0	21.3	0		
1530	+0.35									
1545	0.00									
1600	0.00									
1615	+0.1				2.7	0	21.3	0		
1630	+0.1		6.64	/						
1645	0.039									
1700	0.049									
1740			2.65							
1805			2.15	8.1						
1830			2.09	~~11.5~~ 10.3	7.7	0	21.3	0		
1900			~~2.16~~ 1.96	10.0						
1930			1.38	bubbles						
2000			0.90	"	10.8	0	21.3	0		
2030			0.70	bubbles						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: 7/14

Extraction Well ID: _____

Air Sparge Well ID: _____

Monitoring Well ID: MP-2D

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			13.62	4.00						

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____
Job # _____
Site ID: _____
Site Address: _____
City, State: _____

Extraction Well ID: SVE-1
Distance to Extraction Well (ft): 87'-5"
Air Sparge Well ID: AS-1 AS-2
Distance to Air Sparge Well (ft): 80'-6" 80

Monitoring Well ID: MW-102S
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 7.16
DTB (ft): 16 (15)

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
Baseline	0.0	NM	7.16	0.14	3.8	0	18.0	0		
Step - 1										
1030	0.0									
1045	0.0		~~7.18~~		4.4	0	20.9	0		
1100	0.0		7.16							
1115	0.0				2.9	0	19.9	0		
1130	0.00									
1145	0.00				2.6	0	19.9	0		
1200	0.00									
1215	0.00		~~7.16~~		2.1	0	19.9	0		
1300	0.00									
1315	0.001				3.5	0	19.8	0		
1330	0.001		7.16							
1345	0.001									
1400	0.001									
1415	0.001				2.3	0	20.9	0		
1430	0.001									
1445	0.001									

Notes: NM - Not Measured

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: MW-1028

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
1515	0.00				3.9	0	20.9	0		
1530	0.00									
1545	0.00									
1600	0.00									
1615	0.00				2.2	0	20.9	0		
1630	0.00		7.16							
1645	0.00									
1700	0.00									
			7.23		Sparge	@ 15	PSI - 1.7	CFM		
1805			~~7.78~~ 7.95							
1830	0.00				3.1	0	21.0	0		

7/14

Notes: NM - Not Measured

AECOM

Monitoring Testing Data

Page _____ of _____

DATE: _____

Extraction Well ID: _____

Monitoring Well ID: _____

Air Sparge Well ID: _____

Time (min)	Pressure (" H_2O)	Depth to Product (ft)	Depth to Water (ft)	Dissolved Oxygen (mg/L)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity
			7.2	0.14						

Notes: NM - Not Measured

AECOM

AS/SVE Pilot Testing Data

Page _____ of _____

DATE: 7/12/11
Job #
Site ID:
Site Address:
City, State:

DO @ T_0 : 0.22

Extraction Well ID: SVE-1
Well Diameters (in): 4"
Initial DTP (ft): NM
Initial DTW (ft): 5.95
DTB (ft): 13.95

Air Sparge Well ID: AS-1
Well Diameters (in): 2
Initial DTP (ft): NM
Initial DTW (ft): 5.82
DTB (ft): 39.54 (40)

Time (min)	SVE System Influent											SVE System Effluent		AS System	
	Pressure (" H_2O)	Soil Vapor Velocity (ft/min)	Temp (°F)	SCFM (calculated)	ACFM (calculated)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity	VGAC-1 VOC (ppm_v)	VGAC-2 VOC (ppm_v)	Pressure (psi)	Injection Rate (~~scfm~~)
Baseline															SCFH
10:15	2.6	313	104					Step - 1							
15	2.7	320	104			10.9	ø	21.2	ø			ø	ø		
30	2.6	314	106			9.4	ø	21.2	ø			ø	ø		
	2.6	320	110			8.9	ø	21.2	ø			–	–		
	2.6	325	109			7.7	ø	21.2	ø	1518	49%	–	–		
1	2.6	319	111	* SUMA Sample *		7.1	ø	21.2	ø	762	53%	ø	ø		
	2.6	90	111			21.9	ø	21.2	ø	–	–	–	–		
1245	10	107	112												
15	9.9	111	109			~~20.9~~ 15.6	ø	20.9	ø	707	44%	ø	ø		
30	10.0	113	110			21.1		~~20.8~~		938	48%	–	–		
[illegible]	10.1	109	107			22.9	–	20.4	–	1121	51%				
90	10.2	110	106			20.3	ø	20.3	ø	1738	52%	ø	ø		
120	10.2	110	107			18.9		20.2	ø	1528	51%	–	–		
(1500)	~~[illegible]~~ 55"	190	104												
15	56"	140	104			11.9	ø	20.3	ø	1921	54%	–	–		
30	56"	130	105			10.1	ø	20.2	ø	2101	52%	ø	ø		
60	56"	120	104			10.7	ø	20.2	ø	1141	50%	–	–		
90	56"	120	104			8.7	NM	NM		896	51%	ø	ø		
120		140	106			8.6	NM	NM		592	48%	ø	ø		
1730	26.6	110	104			7.2				~~472~~				25 PSI	90 SCFH
15	26.6	121	93			6.9				472	NM			17	90
30	26.4	120	92	* SUMA Sample *		12.6				1270	60%			16	100
60	26.4	124	91			9.6				1203	58%			15	100
90	26.5	130	90			8.8				1268	60%	ø	ø	16	100
120	26.6	128	88			8.0				1201	58%			16	100
150	26.6	125	86			6.9				1154	56%	ø	ø	16	100

Notes: Soil vapor sample collected for lab analysis by EPA Method TO-14.
NM - Not Measured

Diameter of Pipe (in):	2	4	6
Cross Sectional Area ft^2:	0.0218	0.0873	0.1963

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

AECOM

AS/SVE Pilot Testing Data

Page _____ of _____

DATE: 7/13/11
Job #
Site ID:
Site Address:
City, State:

DO @ T_0 : 0.30
DO @ End : 7.60

Extraction Well ID:
Well Diameters (in):
Initial DTP (ft):
Initial DTW (ft):
DTB (ft):

Air Sparge Well ID: AS-2
Well Diameters (in): 2
Initial DTP (ft):
Initial DTW (ft):
DTB (ft): (21)

Time (min)	SVE System Influent: Pressure (" H_2O)	Soil Vapor Velocity (ft/min)	Temp (°F)	SCFM (calculated)	ACFM (calculated)	VOC (ppm_v)	% LEL	% O_2	H_2S	CO_2 (ppm_v)	% Relative Humidity	SVE System Effluent: VGAC-1 VOC (ppm_v)	VGAC-2 VOC (ppm_v)	AS System: Pressure (psi)	Injection Rate (scfm)
Baseline															
Step - 1															
0815	25.5	194	97			17.7	ø	20.4	ø	234	70%	ø	ø		
0830	[illegible]													5 psi	60 SCFH
0845	26.6	210	108	* Suma Sample *		25.2	ø	20.3	ø	374	72%	–	–	7.5	60
30	26.8	195	112			16.1	ø	20.3	ø	–	–	ø	ø	7.0	60
60	26.6	197	110			17.8	ø	20.4	ø	471	79%	–	–	7.0	60
90	26.6	204	112			16.9		20.5		809	68%	ø	ø	7.0	60
120	26.5	211	118			17.4		20.4		1202	64%			6.5	60
150	26.5	207	110			16.4		20.4		2211	61%	ø	ø	6.5	60
180	26.6	190	97			15.2		20.8		2821	60%	–	–	6.5	60
210	26.6	190	96			–		21.0		2505	63%			7.0	60+
1215	26.8							3 SCFM Bubbled out of Wells				(MP-3I)		10.0	180
15	27.4	190	94			17.6		20.9		2455	56%			9	120
30	26.8	194	94	* SUMA *		18.7		20.9		2292	51%	ø	ø	8	120
60	26.9	188	97			19.0		20.9		2461	48%	ø	ø	8	130
90	26.8	191	98			NM		20.8		2602	47%	–	–	8	130
120	26.9	186	103			23.3		20.9		2304	46%	ø	ø	8	120
150	26.6	190	105			24.2		20.9		2563	45%	–	–	8	120
180	26.5	194	107			22.2		20.8		2281	44%	ø	ø	8	120

Notes: Soil vapor sample collected for lab analysis by EPA Method TO-14.
NM - Not Measured

Diameter of Pipe (in):	2	4	6
Cross Sectional Area ft^2:	0.0218	0.0873	0.1963

	Make	Model #	Calibration
Equipment:			
Equipment:			
Equipment:			
Equipment:			

Appendix C

Low-Flow Groundwater Sample Collection Logs

AECOM

Well ID: MW-102S

Low Flow Ground Water Sample Collection Record

Client: _____ Date: 6/12/12 Time: Start 220 am/pm
Project No: _____ Finish _____ am/pm
Site Location: Cranston RI
Weather Conds: Cloudy 70s Collector(s): Julien Chambert

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material _____

b. Water Table Depth 7.62 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
T			
D			

Time (24hr)	Volume Removed (~~Liters~~) gal	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1430	0	14.16	6.44	400	2.43	-148.9	512	100	7.62	Grey/none
1440	.5	13.62	6.85	413	1.31	-148.2	20.9	100	7.62	—/—
1450	.75	13.62	6.89	414	0.66	-156.2	10.1	100	7.62	—/—
1500	1.25 gal	13.62	6.90	415	0.41	-150.2	12.9	100	7.62	—/—
1510	1.5 gal	13.60	6.91	415	0.30	-144	11.3	100	7.62	—/—
1515	1.75	13.63	6.91	415	0.20	-169.2	9.52	100	7.62	—/—
1523	2	13.60	6.91	415	0.19	-169.7	8.74	100	7.62	—/—

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: Bladder pump

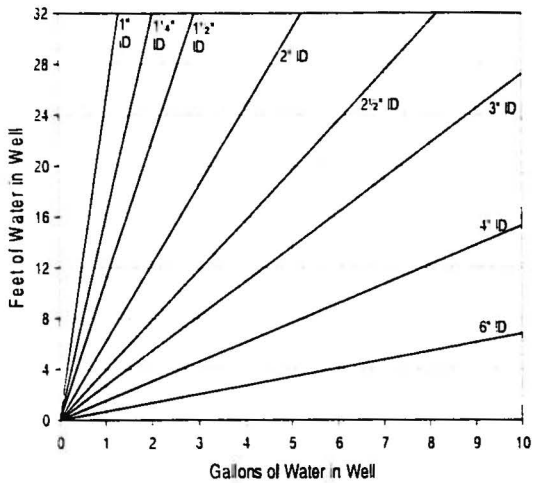
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-102S-061212-1	Vial	3	HCl	VOC	1530
MW-102S-061212-2	Vial	3	HCl	VOCs	1540

Comments Pump placement 103'

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (~~liters~~ gallons)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
15:29	2.5	13.55	6.91	415	0.16	-172.0	3.39	100	7.62	— / —
15:32	3	13.51	6.91	415	0.15	-172.6	3.39	100	7.62	— / —

AECOM

Well ID: MW-102D

Low Flow Ground Water Sample Collection Record

Client: _____ Date: 6/12/12 Time: Start 220 am/pm
Project No: _____ Finish _____ am/pm
Site Location: Cranston, RI
Weather Conds: Cloudy 70's Collector(s): W. Kerrigan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 8.46 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
T			
C			

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1430	0	12.43	7.07	187	1.82	-148.2	overrange	100	08.94	Grey/none
1440	.5	12.19	7.09	187	1.77	-172.4	—	100	08.46	Grey/none
1450	.75 gal	12.19	7.08	188	0.51	-170.8	—	100	08.46	—/—
1500	1.30 gal	12.25	7.07	190	0.34	-173.0	—	100	08.46	—/—
1510	2 gal	12.42	7.05	194	0.26	-179.3	—	100	9.03	—/—
1520	2.5 gal	13.01	7.05	196	0.14	-189.7	—	100	9.03	—/—
1530	3 gal	12.85	7.05	195	0.04	-191.5	—	100	9.03	—/—

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

_____

3. SAMPLE COLLECTION: Method: _____

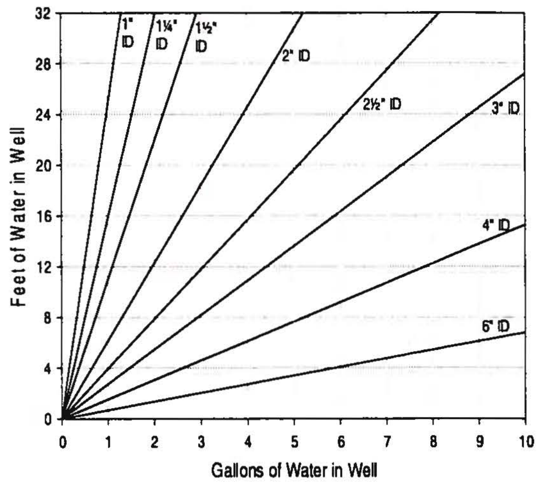
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-102D-061212-1	Vol.	9	HCl	VOCs	1545
MS/MSD	collected				

Comments Pump placement 22.5'

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1540	3.5 gal	12.98	7.05	195	-0.05	-193.5	Out of Range	100	9.03	grey / none

AECOM

Well ID: MW-14D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/12/12
Time: Start 1450 am/pm
Finish 1600 am/pm
Project No:
Site Location: Cranston RI
Weather Conds: Sunny warm
Collector(s): S. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4"

b. Water Table Depth 10.11 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	±1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI 650 MDS	A	
HACH 2100Q	T4	
MP-30 Water level		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1520	2.5	15.55	7.03	414	1.39	-81.6	121	100	10.11	Red/Brown/None
1525	3.0	14.88	7.00	413	1.38	-85.3	78.4	100	10.11	" / "
1530	3.5	14.59	6.98	413	1.29	-88.2	69.3	100	10.11	" / "
1535	4.0	14.46	6.95	415	0.93	-96.2	44.2	100	10.11	" / "
1540	4.5	14.47	6.94	414	0.93	-97.1	44.3	100	10.11	" / "
1545	5.0	14.64	6.92	415	0.73	-101.7	43.9	100	10.11	" / "
1550	5.5	14.70	6.92	415	0.76	-101.5	41.5	100	10.11	" / "

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

Turb > 5NTU

3. SAMPLE COLLECTION: Method: non dedicated bladder

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-14D_061212-1					
	VOA vial	3	HCl	VOC	1555

Comments

Signature [signature] Date 6/12/12

AECOM

Well ID: MW-205

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/12/12 Time: Start 1510 am/pm
Project No: Finish _____ am/pm
Site Location: Grenista RLF
Weather Conds: 75° partly sunny Collector(s): KRobinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 10.35 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		B
Hach		T-4
	MP-30	

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1520	1	16.35	6.01	246	2.15	62.4	22.2	100	10.37	orange
1525	1.5	16.35	6.01	246	2.15	62.1	21.8	100	10.37	↓
1530	2	14.88	5.79	235	1.29	79.1	88.7	100	10.39	↓
1535	2.5	14.20	5.74	236	1.22	88.8	68.2	100	10.42	Clear
1540	3	14.86	5.65	238	1.01	76.8	63.7	100	10.43	↓
1545	3.5	14.55	5.64	238	0.99	73.7	63.7	100	10.45	↓
1550	4	14.81	5.66	239	0.96	62.9	50.1	100	10.45	↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: _____

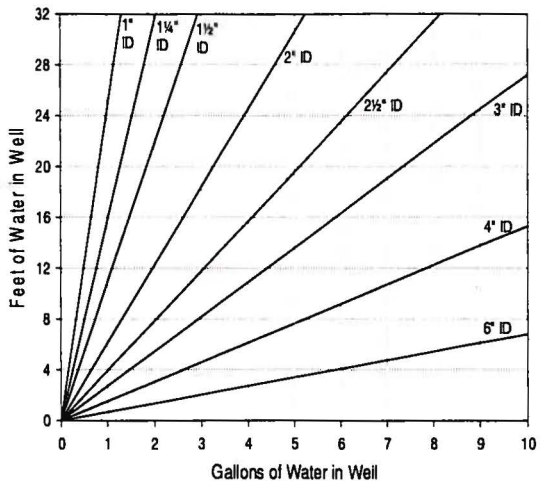
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-205-06212-1004		3	HCl	VOCs	1615

Comments _____

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1555	4.5	14.95	5.64	240	0.95	582	473	100	10.46	clear
1600	5	14.60	5.63	237	0.94	581	393	100	10.46	clear
1605	5.5	14.49	5.61	237	0.94	586	323	100	10.47	clear
1610	6	14.42	5.60	236	0.93	586	292	100	10.47	clear

AECOM

Well ID: MW-34S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/12/12
Time: Start 1200 am/pm
Finish 1430 am/pm
Project No:
Site Location: CRANSTON RI
Weather Conds: overcast 70c
Collector(s): J. Chambers

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4/ Steel

b. Water Table Depth 8.26 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
D			
TI			

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1217	0	14.03	6.74	399	6.12	-129.5	71.0	125	8.30	brown/none
1234	1 gal	14.01	6.77	398	1.56	-141.6	14.5	125	8.30	clear/none
1253	2 gal	14.47	6.80	401	0.55	-147.3	16.8	125	8.30	—/—
1300		14.35	6.81	399	0.38	-148.6	16.2	125	8.30	—/—
1308		14.27	6.81	397	0.30	-149.7	12.5	125	8.30	—/—
1312		14.32	6.81	397	0.27	-149.8	11.6	125	8.30	—/—
1318	3 gal	14.26	6.82	399	0.19	-147.5	17.6	125	8.30	—/—

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: bladder pump

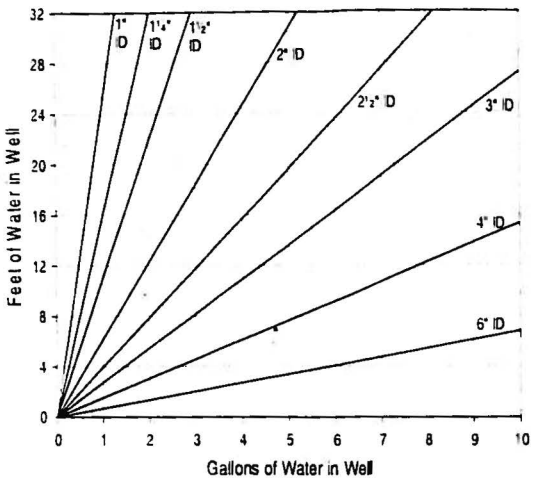
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-34S-061212-1	Vods	3	HCl	VOCs	1340

Comments Pump placement 15'

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1328	3gal	14.22	6.84	399	0.19	-145.9	15.8	125	8.30	—/—
1338		14.32	6.84	401	0.18	-147.7	19.2	125	8.30	—/—

AECOM

Well ID: MW-34D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/12/12
Time: Start 1200 am/pm
Finish 1400 am/pm
Project No:
Site Location: Cranston, RI
Weather Conds: Cloudy 70s
Collector(s): N. Kerrigan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 9.15 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
C			
T2			

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1215	0	14.98	6.93	252	1.71	45.0	324	100/min	9.15	orange / —
1238	1 gal	14.01	6.64	246	0.37	33.9	216	100/min	9.15	none / —
1254	2 gal	14.29	6.63	248	0.16	28.2	188	100	9.15	— / —
1300	2.5 gal	14.35	6.61	249	0.13	27.6	216	100	9.15	— / —
1310	3 gal	14.27	6.61	249	0.08	25.8	177	100	9.15	— / —
1315	3.5 gal	14.25	6.61	248	0.06	25.6	160	100	9.15	— / —
1320	3.75 gal	14.21	6.61	249	0.04	24.8	153	100	9.15	— / —

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: bladder pump

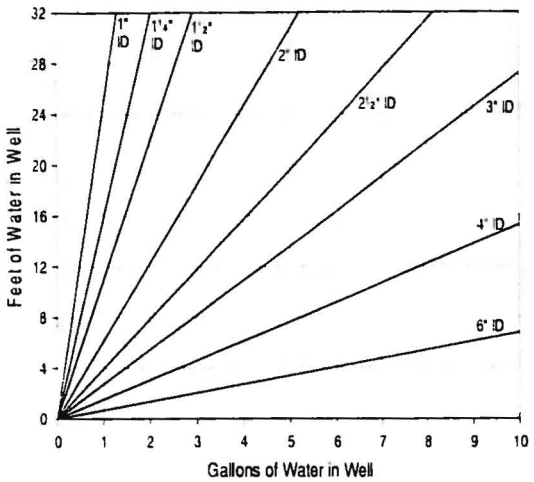
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-34D	0.6L NZ-1 VOA	3	HCl	VOC	1330

Comments Pump placement 43'

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1330	4.0741	14.20	6.60	249	0.02	24.9	161	100	5.15	— / —

AECOM

Well ID: MW-10D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/12/12
Time: Start 1000 am/pm
Finish 1115 am/pm
Project No:
Site Location: Cranston RI
Weather Conds: ~75°F, cloudy
Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4"

b. Water Table Depth 12.35 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	B	
	MP30 water level		
	HACH	2100Q	

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1015	1.5	14.43	6.39	240	0.48	20.7	97.4	100	0.5	red/Brown/tan
1020	2.0	14.35	6.40	300	0.41	26.0	75.3	100	0.0	
1025	2.5	14.32	6.40	299	0.35	28.6	48.5	100	0.0	
1030	3.0	14.30	6.39	299	0.29	30.4	45.6	100	0.0	
1035	3.5	14.26	6.38	299	0.29	30.0	40.0	100	0.0	
1040	4.0	14.24	6.39	299	0.28	28.6	37.0	100	0.0	
1045	4.5	14.23	6.39	298	0.26	30.4	34.4	100	0.0	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☒
Have parameters stabilized	☐	☒	☐

If no or N/A - Explain below.

Turb > 5 NTU

3. SAMPLE COLLECTION: Method: nondedicated bladder pump

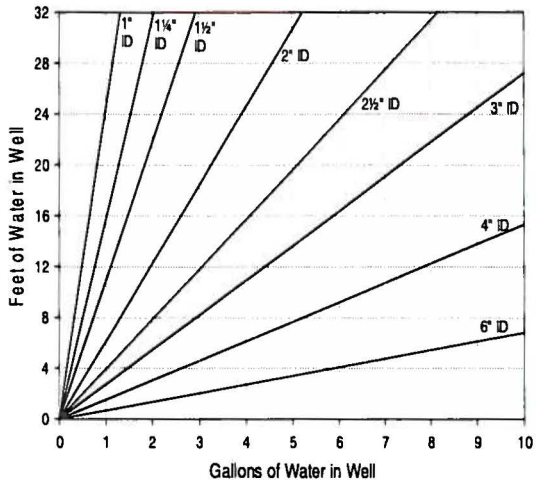
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-10D-061212-1					
VOA vial	VOC	3	HCl	VOC	1110

Comments _____

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1050	5.0	14.27	6.40	298	0.31	29.2	33.9	100	0.0	-/-
1055	5.5	14.27	6.38	298	0.37	41.3	31.3	100	0.0	-/-
1100	6.0	14.26	6.38	299	0.37	41.6	29.5	100	0.0	-/-

AECOM

Well ID: MW 105

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/12-12 Time: Start 1000 am/pm
Project No: Finish 1105 am/pm
Site Location:
Weather Conds: 70's partly cloudy Humid Collector(s): K. Robinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 12.34 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non-dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	6000XL	A
	Hach	2100Q	F-3
		MP-30	

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1015	1	14.95	6.14	199	1.60	77.1	32.3	100	12.34	Clear
1020	1.5	14.84	6.12	199	1.75	87.2	30.3	100	12.34	
1025	2	14.63	6.09	197	1.78	92.4	26.4	100	12.34	
1030	2.5	14.60	6.08	196	1.78	99.5	22.3	100	12.34	
1035	3	14.63	6.09	194	1.78	99.6	20.8	100	12.34	
1040	3.5	14.61	6.08	195	1.75	102.2	18.3	100	12.34	
1045	4	14.57	6.08	195	1.70	103.1	14.3	100	12.34	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☒
Have parameters stabilized	☐	☒	☐

If no or N/A - Explain below.

Turbidity

3. SAMPLE COLLECTION: Method: non dedicated Bladder pump

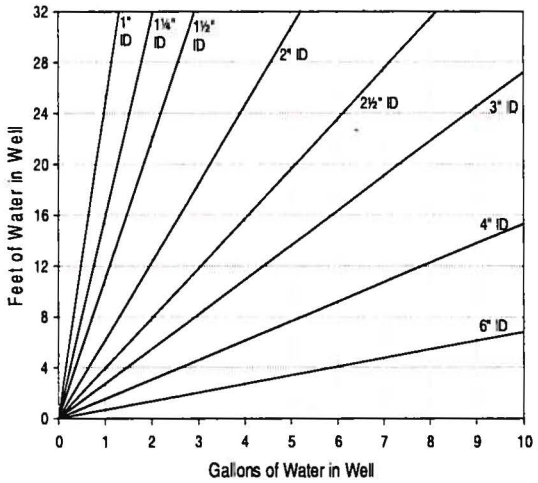
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-105_6012-1	VOA	3	HCl	VOCs	1105

Comments

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
			6.08							
1050	4.5	14.53	6.09	194	1.77	106.6	14.6	100	12-34	CLEAR
1055	5	14.54	6.66	192	1.92	110.4	14.3	100	12-34	CLEAR
1100	5.5	14.52	6.66	192	1.92	110.5	14.4	100	12-34	CLEAR

AECOM

Well ID: MW-45

Low Flow Ground Water Sample Collection Record

Client: BASF Cranston RI Date: 6/12/12 Time: Start ~~1200~~ 1210 am/pm
Project No: Finish 1315 am/pm
Site Location: Cranston RI
Weather Conds: Cloudy warm ~ 70°F Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4"

b. Water Table Depth 10.38 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	650 MDS	B
HACH	2100Q turb	T3
MP	30 water level	

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1225	0.5	22.01	7.12	2	8.80	61.3	36.1	100	10.55	none/none
1230	1.0	15.00	6.34	222	1.07	54.4	27.8	100	10.55	-/-
1235	1.5	15.03	6.33	226	0.78	48.8	19.4	100	10.59	-/-
1240	2.0	15.12	6.33	229	0.76	43.2	14.1	100	10.65	-/-
1245	2.5	15.18	6.32	231	0.65	39.6	10.2	100	10.70	-/-
1250	3.0	15.21	6.32	235	0.56	36.7	8.43	100	10.88	-/-
1255	3.5	15.18	6.32	236	0.53	32.7	7.35	100	18.80	-/-

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

_____

3. SAMPLE COLLECTION: Method: non dedicated bladder

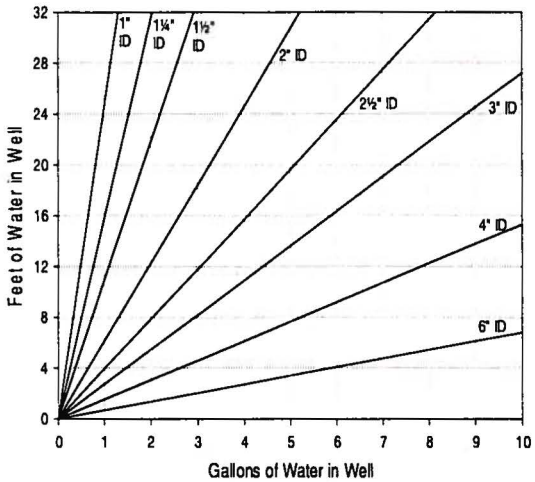
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-45_061212-1	VOA vial	3	HCl	VOC	1310

Comments _____

Signature [signature] Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1300	4.0	18.17	6.32	237	0.51	26.3	5.16	100	~~18~~ 19.80	- / -
1305	4.5	15.16	6.32	238	0.49	24.4	4.59	100	10.80	- / -

AECOM

Well ID: MW-4P

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6-12-12
Time: Start ~~1200~~ 1210 am/pm
Finish _____ am/pm
Project No: _____
Site Location: Cranston RI
Weather Conds: 70's partly cloudy
Collector(s): K. Robinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____
c. Length of Water Column _____ (a-b)
Casing Diameter/Material _____
b. Water Table Depth 9.48
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		A
Hach	2100q	F3
MP-30		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1225	1	14.28	12.04	1433	10.52	-26.2	5.3	100	10.81	
1230	1.5	14.09	12.05	314	10.40	-40.0	6.88	100	10.83	
1235	2	13.95	11.89	317	10.32	-26.3	12.72	100	11.82	
1240	2.5	13.96	11.85	318	10.28	-12.7	20.82	100	11.88	
1245	3	13.95	11.84	318	10.26	-6.2	33.3	100	11.89	
1250	3.5	13.96	11.84	318	10.26	-6.1	30.3	100	11.89	
1255	4	13.99	11.84	318	10.26	-6.1	29.7	100	11.90	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☐	☒	☐

(continued on back)

If no or N/A - Explain below.
Time

3. SAMPLE COLLECTION: Method: Non dedicated Bladder pump

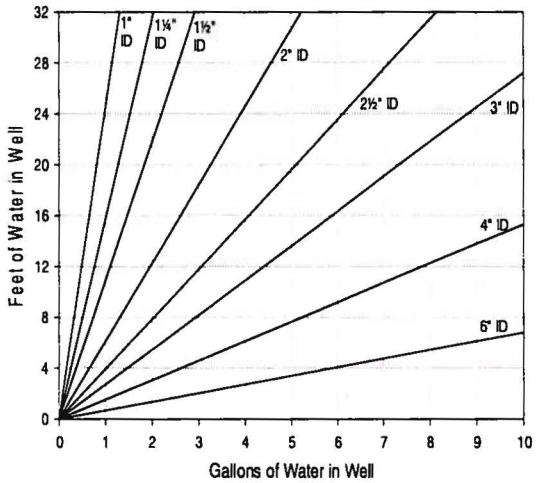
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-4D_6121201	VOA	3	HCl	VOCs	1320

Comments _____

Signature _____ Date 6-12-12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1300	4.5	13.85	11.78	961	10.27	21	37.0	100	12.21	
1305	5	13.89	11.73	896	10.24	5.5	37.2	100	12.57	
1315	5.5	13.89	11.73	896	10.24	6.7	37.7	100	12.88	

AECOM

Well ID: MW-12S

Low Flow Ground Water Sample Collection Record

Client: ~~AECOM~~ BASF
Date: 6/12/12
Time: Start 10 00 am/pm
Finish 11 30 am/pm
Project No:
Site Location: CRANSTON RI
Weather Conds: overcast 70s
Collector(s): J. Chabot

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 11.78 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
T1			
D			

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
10:10	0	14.61	6.42	254	7.50	-69.8	3.54	100	11.40	none/no
10:20	1	14.75	6.32	224	5.41	-60.4	3.93	100	11.40	- / -
10:25	1.5	14.76	6.37	221	4.55	-57.6	4.24	100	11.40	- / -
10:35	2.0	14.41	6.44	213	2.39	-51.5	3.76	100	~~11.90~~ 11.40	- / -
10:45	2.5	14.25	6.44	212	2.00	-50.0	3.47	100	~~11.95~~ 11.40	- / -
10:50	3.0	14.26	6.44	210	1.76	-48.2	3.30	100	~~11.95~~ 11.40	- / -
11:00	3.5	14.37	6.45	209	1.15	-46.0	4.69	100	~~12.00~~ 11.40	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: bladder pump

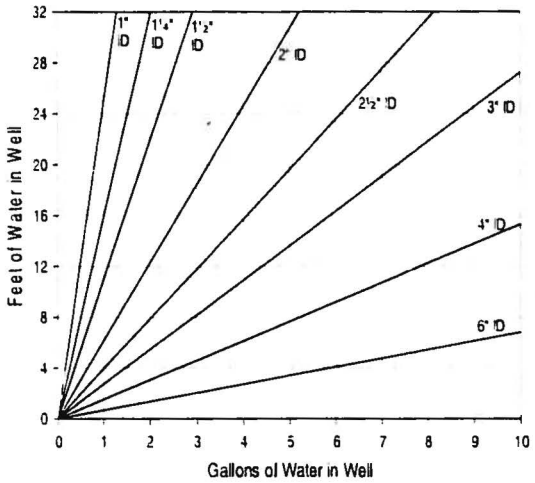
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-12S_061212-1	VOAs	3	HCl	VOCs	1313

Comments Pump placement: 15'

Signature _____ Date 6/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1105		14.31	6.45	208	1.05	-46.6	3.75	100	11.40	
1110		14.32	6.46	208	0.97	-44.7	3.49	100	11.40	

AECOM

Well ID: MW-12D

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/12/12 Time: Start 1000 am/pm
Project No: Finish _____ am/pm
Site Location: CRANSTON RI
Weather Conds: Overcast 70s Collector(s): W. Kerrigan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 9.84 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	±1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used: Make Model Serial Number

TI, E

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1000		13.91	7.63	432	-4.79	-28.4	+++	100/min	9.84	clear/none
1005	.15	13.82	7.52	335	0.30	-21.0	+++	↓	9.84	-
1010	.20	14.11	7.52	338	0.24	-31.0	+++	↓	9.84	↓
1015	.30	14.33	7.52	340	0.28	-32.0	41.6	↓	10.10	↓
1020	.45	14.30	7.51	337	0.21	-47.2	39.9	↓	10.10	↓
1025	.55	14.36	7.50	337	0.18	-74.5	42.1	↓	10.10	↓
1030	.70	14.39	7.46	336	0.13	-86.0	37.9	↓	10.10	↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: bladder pump

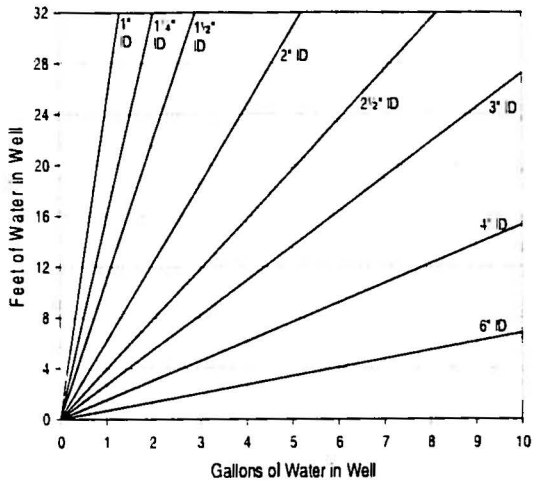
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-12D-061212-1	VOAs	3	HCl	VOCs	1115

Comments pump placed 43'

Signature [signature] Date 06/12/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1035	.75	14.30	7.45	335	0.11	-89.0	35.7	100/min	10.30	Clear/none
1040	1.00	14.18	7.42	333	0.07	-94.3	30.7	100	10.30	—/—
1050	1.00	14.09	7.37	329	0.04	-97.1	27.3	100	10.35	—/—
1100	1.20	14.14	7.31	328	0.02	-97.7	25.4	100	10.35	—/—

MW-29D (dc)

AECOM

Well ID: ~~P-29D~~

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1350 am/pm
Finish 1520 am/pm
Project No: 60163799
Site Location: Cranston, RI
Weather Conds: 60's, rainy
Collector(s): C Callahan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 2" SS

b. Water Table Depth 9.58 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: EPA Low Flow Nondedicated bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XC	01L0702
Hach	2100Q	T1

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1400	1	17.19	7.66	300	6.90	-30.8	26.2	100	9.64	Clear/none
1405	1.5	17.01	7.20	298	2.11	-31.1	19.7	"	9.68	"
1410	2	16.72	6.97	297	1.98	-32.7	11.8	"	9.71	"
1415	2.5	16.68	6.89	297	1.50	-33.8	9.7	"	9.72	"
1420	3	16.61	6.88	296	1.68	-34.9	8.9	"	9.74	"
1425	3.5	16.58	6.88	296	1.70	-35.0	8.1	"	9.75	"
1430	4	16.56	6.88	296	1.71	-35.0	8.4	"	9.75	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: SAho

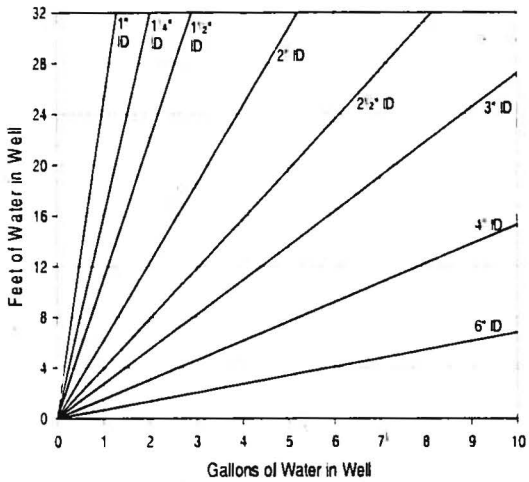
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-29D_061312-1	VOA	3	HCl	VOC's	1510

Comments Pump placement: 40

Signature [signature] Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1435	4.5	16.50	6.60	297	0.90	-36.1	6.9	100	9.75	clear/no
1440	5	16.49	6.75	298	0.66	-38.0	5.8	"	9.75	"
1445	5.5	16.49	6.75	299	0.65	-38.0	4.5	"	9.75	"
1500	6	16.49	6.74	300	0.65	-38.0	4.0	"	9.75	"

AECOM

Well ID: MW-31D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1120 am/pm
Finish 1245 am/pm
Project No: 60163799
Site Location: Crosby, RT
Weather Conds: 60's, cloudy
Collector(s): C Callahan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 2" SS

b. Water Table Depth 2.45 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: EPA Low Flow Nondedicated Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	E
Hach	2100Q	T1

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1130	1	17.45	6.71	299	1.09	3.7	30.0	100	8.50	Clear/none
1135	1.5	17.41	6.70	300	0.70	-9.7	21.1	"	8.51	"
1140	2	17.38	6.70	302	0.52	-21.1	13.7	"	8.52	"
1145	2.5	17.35	6.69	303	0.36	-42.1	9.2	"	8.52	"
1150	3	17.32	6.69	304	0.31	-59.6	8.1	"	8.52	"
1155	3.5	17.30	6.68	304	0.28	-65.1	7.5	"	8.52	"
1200	4	17.27	6.68	305	0.25	-70.1	6.2	"	8.52	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: SAME

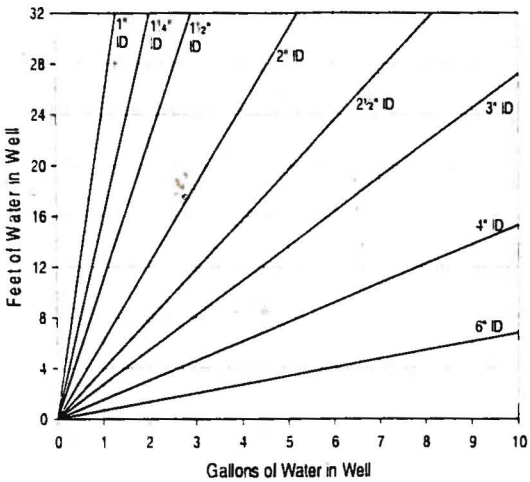
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-31D-061312-1	VOA	3	HCl	VOC's	1230

Comments Pump placement 40'

Signature [signature] Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1205	4.5	17.25	6.66	305	0.20	-72.9	3.9	100	8.52	clear/none
1210	5	17.21	6.65	307	0.19	-74.5	3.5	"	8.52	"
1215	5.5	17.20	6.65	308	0.18	-75.1	3.6	"	8.52	"
1220	6	17.20	6.65	308	0.18	-75.6	3.1	"	8.52	"

AECOM

Well ID: P-355

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1120 am/pm
Finish _____ am/pm
Project No: 60163719
Site Location: Cranston
Weather Conds: 60's Cloudy
Collector(s): K. Robinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 2"

b. Water Table Depth 7.40 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		B
Hach		7-2
MP-30		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1130	1	13.62	6.28	217	0.51	-221	11.1	100	7.41	clear
1135	1.5	13.79	6.34	234	0.62	-60.3	10.2	100	7.52	
1140	2	13.81	6.39	253	0.72	-78.9	9.7	100	7.58	
1145	2.5	13.84	6.45	296	0.81	-92.3	7.3	100	7.58	
1150	3	13.87	6.64	315	0.88	-97.8	6.2	100	7.58	
1155	3.5	13.90	6.70	330	0.89	-108.3	5.3	100	7.59	
1200	4	13.92	6.71	356	0.91	-120.3	4.6	100	7.60	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: bladder

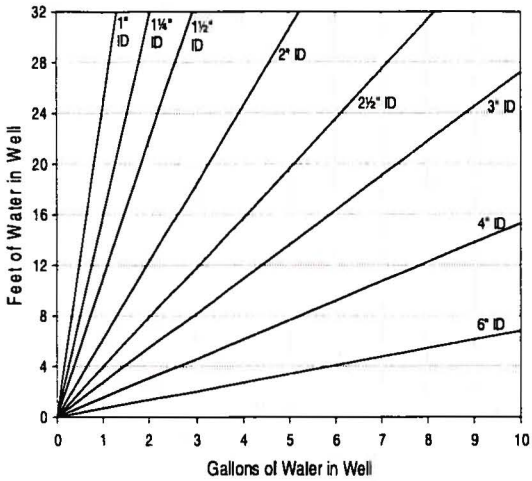
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
P-355-061312-1	VOA	3	HCl	VOCs	1225

Comments pump placement 15' (screen interval 5')

Signature [signature] Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1205	4.5	13.90	6.77	359	0.98	-121.0	1.2	100	7.61	Clear
1215	5	13.90	6.77	359	0.97	-121.0	1.2	100	7.61	↓
1220	5.5	13.90	6.77	359	0.97	-121.0	1.0	100	7.61	↓

AECOM

Well ID: P-37S

Low Flow Ground Water Sample Collection Record

Client: BUSF Date: 6/13/12 Time: Start 1350 am/pm
Project No: 60163799 Finish _____ am/pm
Site Location: Cranston
Weather Conds: 60's periods of rain Collector(s): K. RCbinsa

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2"

b. Water Table Depth 7.12 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		E
Hach		T-1

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1400	1	15.90	6.52	214	1.52	18.1	16.2	100	7.15	
1405	1.5	15.21	6.49	210	1.23	36.3	10.2	100	7.18	
1410	2	14.96	6.46	208	1.06	52.7	9.8	100	7.19	
1415	2.5	14.57	6.45	208	1.01	69.8	7.2	100	7.22	
1420	3	14.36	6.44	207	0.55	72.3	6.4	100	7.23	
1425	3.5	14.25	6.43	206	0.21	89.5	5.8	100	7.24	
1430	4	14.18	6.39	206	0.10	94.1	4.03	100	7.25	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: bladder

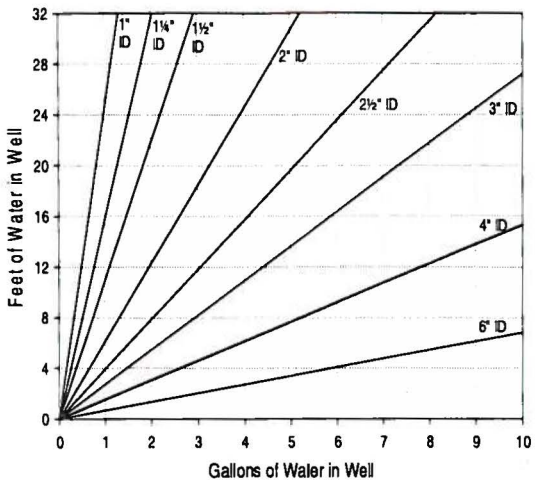
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
P-37S_061312	VO9	3	HCl	VOC3	1450

Comments Pump placement: 15' (screen interval: 5')

Signature [signature] Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1435	4.5	14.21	6.34	206	0.10	95.1	3.97	100		
1440	5	14.20	6.39	206	0.11	94.1	2.88	100		

AECOM

Well ID: P-385

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1400 am/pm
Finish 1515 am/pm
Project No: 60163799
Site Location: CRANSTON RI
Weather Conds: Rain COS
Collector(s): J. Chambert

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 7'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material _____

b. Water Table Depth 7.16
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
A		
T4		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1418	1	13.56	6.46	171	1.16	-32.7	9.46	100	7.50	-/-
1438										
1447		13.46	6.32	170	0.63	-17.0	23.1	100	7.50	-/-
1450		13.06	6.32	169	0.39	-19.3	17.9	200	7.50	-/-
1453		13.00	6.31	168	0.26	-22.0	8.35	200	7.50	-/-
1456		12.98	6.31	168	0.22	-23.5	8.49	200	7.50	-/-
1500	1 gal	12.98	6.31	168	0.18	-25.3	8.41	200	7.5	-/-

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: _____

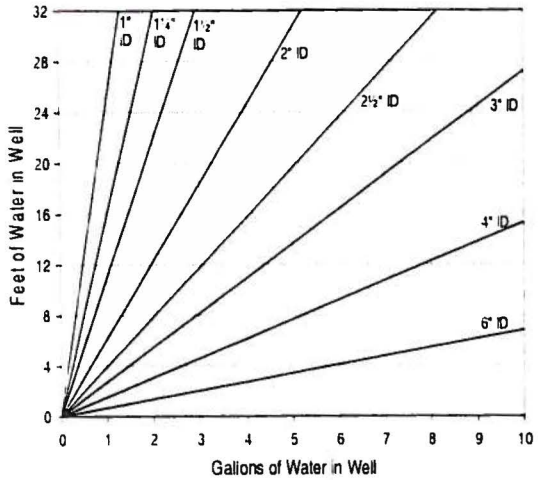
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
AEM385-061312-1	Vool	3	HCl	VOC	1510

Comments Pump placement 15'
Controller dispensation @ 1930

Signature [signature]
Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
15:03		12.97	6.31	168	0.17	-26.3	7.13	200	7.50	—/—
15:06		12.96	6.31	168	0.16	-26.9	7.49	200	7.70	—/—

AECOM

Well ID: MW-1D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 0905 am/pm
Finish 1030 am/pm
Project No: 60163799
Site Location: Crosta 2I
Weather Conds: 60's Rain
Collector(s): K Robinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4"

b. Water Table Depth 8.11 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI		B
	Hach		T-2
	MP30		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0915	1	12.98	6.11	213	0.83	174.6	52.3	100	8.11	clear
0920	1.5	13.01	6.14	214	0.72	109.6	46.7	100	8.15	
0925	2	13.06	6.15	214	0.71	72.3	42.3	100	8.17	
0930	2.5	13.08	6.17	214	0.69	32.3	39.6	100	8.18	
0935	3	13.09	6.18	214	0.63	19.2	23.1	100	8.20	
0940	3.5	13.10	6.20	214	0.59	-14.6	18.2	100	8.21	
0945	4	13.11	6.22	214	0.52	-29.3	12.1	100	8.22	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: non dedicated bladder pump

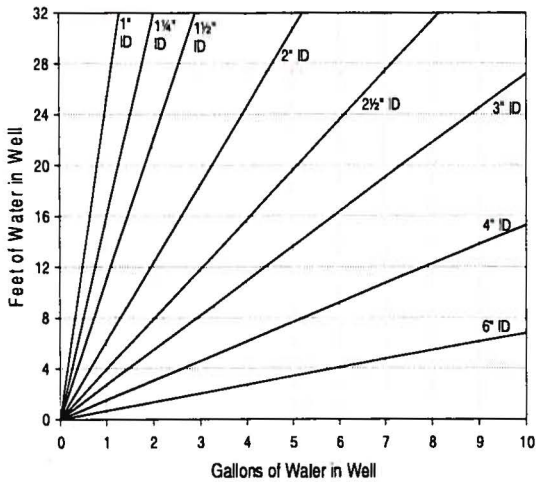
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-1D-061312-1	VOA	3	HCl	VOCs	1020

Comments Pump placement: 47.5'

Signature [signature] Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0950	4.5	13.14	6.25	214	0.49	-73.2	9.6	100	8.24	Clear
0955	5	13.14	6.25	214	0.49	-70.1	3.2	100	8.24	
1000	5.5	13.13	6.25	214	0.49	-72.0	2.1	100	8.24	
1005	6	13.16	6.25	214	0.49	-73.6	2.2	100	8.24	

AECOM

Well ID: MW-15

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 0905 am/pm
Finish 1030 am/pm
Project No:
Site Location: CRANSTON, RI
Weather Conds: 60°F, rainy
Collector(s): C. Callahan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4" SS

b. Water Table Depth 6.75 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: EPA Low Flow Non Dedicated Bladder Pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	E
Hach	2100Q	T1

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0915	1	13.12	7.29	381	0.11	-178.0	25.6	100	7.03	clear/none
0920	1.5	13.26	7.25	378	0.10	-180.1	21.2	"	7.19	"
0925	2	13.29	7.21	371	0.08	-182.7	18.3	"	7.26	"
0930	2.5	13.35	7.18	368	0.06	-184.9	15.7	"	7.38	"
0935	3	13.39	7.17	367	0.04	-187.8	12.6	"	7.49	"
0940	3.5	13.46	7.16	366	0.03	-189.6	9.9	"	7.62	"
0945	4	13.59	7.15	365	0.02	-190.3	7.2	"	7.86	"

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: SAMA

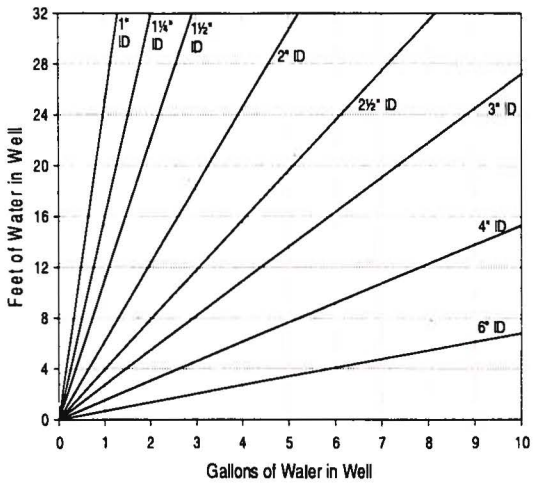
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-15_061312-1	VOA	3	HCl	VOCs	1015

Comments Pump placement: 13'

Signature _____ Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0950	4.5	13.60	7.13	365	0.01	-191.9	6.8	100	7.91	clear/none
0955	5	13.61	7.12	364	0.01	-192.6	6.1	"	7.92	"
1000	5.5	13.61	7.11	364	0.00	-192.9	5.2	"	7.92	"
1005	6	13.61	7.11	363	0.00	-193.5	4.3	"	7.93	"

AECOM

Well ID: MW-2S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 900 am/pm
Finish 1045 am/pm
Project No: 60163799
Site Location: CRANSTON RI
Weather Conds: Rain 60s
Collector(s): J. [illegible]

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 4"

b. Water Table Depth 6.65 to steel casing d. Calculated System Volume (see back) _____

Top of outer casing + 1.3'

2. WELL PURGE DATA

a. Purge Method: bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	A		
	T4		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
930	0	13.92	6.04	170	1.19	15.9	70.2	150	6.65	-/-
940		13.79	6.05	168	0.30	19.5	158	150	6.65	-/-
950		14.09	6.13	184	0.27	1.5	9.68	150	6.65	-/-
1000		14.19	6.20	206	0.24	-18.1	7.53	150	6.65	-/-
1010		14.20	6.20	209	0.24	-20.0	7.02	150	6.65	-/-
1015		14.25	6.21	211	0.23	-23.2	6.06	150	6.65	-/-
1020	5 gal	14.23	6.23	214	0.24	-25.7	3.88	150	6.65	-/-

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: bladder pump

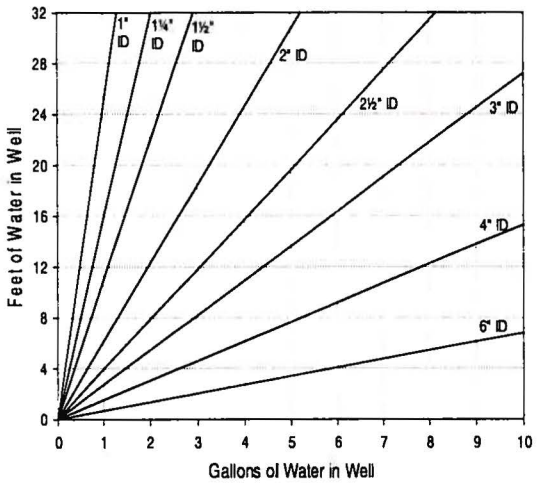
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-2S_061312-1	Vial	3	HCl	VOCs	1030

Comments Pump placement 13'

Signature _____ Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1025		14.23	6.14	214	0.22	-26.9	2.24	150	6.65	—/—
1030		14.20	6.26	209	0.21	-25.5	2.17	150	6.65	—/—

AECOM

Well ID: P-36S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1100 am/pm
Finish 1240 am/pm
Project No: 6016 3799
Site Location: Charlotte NC
Weather Conds: Rain 60s
Collector(s): J. Chambers

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 7.95 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	A		
	T4		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1133	0	16.12	7.09	794	3.46	-39.7	3.02	200	8.01	-/-
1140	1	15.27	7.17	792	1.43	-76.7	1.34	100	8.01	-/-
1148		15.02	7.18	792	0.66	-94.9	1.35	100	8.01	-/-
1201		14.94	7.21	796	0.42	-115.3	1.61	100	8.01	-/-
1215	2.5 gal	14.92	7.21	797	0.25	-129.2	1.18	100	8.01	-/-
1220	~5 gal	15.02	7.21	796	0.22	-132.6	1.96	100	8.01	-/-

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: Bladder

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
P-36S-061312-1	Vial	3	HCl	VOCs	1225

MS/MSD collected

Comments Pump placement 15' (screen interval: 5')

Signature _____ Date 6/13/12

1348

AECOM

Well ID: PW-110

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/13/12 Time: Start 1400 am/pm
Project No: 60163799 Finish _____ am/pm
Site Location: Cranston RI
Weather Conds: Raining Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material _____

b. Water Table Depth 7.91 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI XL 600	[illegible]	
	HACH 2100Q	T3	
	NP 30 water level		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1410	1.0	14.30	6.24	259	1.52	-22.4	12.0	100	7.90	-/-
1415	1.5	14.11	6.24	259	0.97	-22.6	8.43	100	7.90	-/-
1420	2.0	13.99	6.23	256	0.68	-22.6	6.13	100	7.90	-/-
1425	2.5	13.94	6.23	255	0.50	-22.8	4.69	100	7.90	-/-
1430	3.0	13.91	6.23	254	0.46	-23.5	4.05	100	7.90	-/-
1435	3.5	13.88	6.23	254	0.34	-23.8	3.68	100	7.90	-/-

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: non dedicated bladder pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
PW-110_061312-1					1445
	VOA vial	3	HCl	VOC	

Comments Pump placement: 18'

Signature [signature] Date 6/13/12

AECOM

Well ID: PW-120

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 0910 am/pm
Finish _____ am/pm
Project No: 60163799
Site Location: Cranston RI
Weather Conds: raining
Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____
c. Length of Water Column _____ (a-b)
Casing Diameter/Material 6"
b. Water Table Depth 7.5'
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI 600XL	C	
HACH 2100Q	T3	
M? 30	water level	

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0935	2.0	13.54	6.50	401	0.38	-108.7	59.2	100	7.5	none / none
0940	2.5	13.53	6.56	401	0.33	-108.8	37.8	100	7.5	- / -
0945	3.0	13.50	6.56	400	0.31	-108.3	22.0	100	7.5	- / -
0950	3.5	13.52	6.56	400	0.28	-108.0	15.6	100	7.5	- / -
0955	4.0	13.52	6.56	400	0.27	-108.0	12.6	100	7.5	- / -
1000	4.5	13.52	6.56	399	0.26	-108.0	13.6	100	7.5	- / -
1005	5.0	13.51	6.56	399	0.26	-107.9	12.3	100	7.5	- / -

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: non dedicated bladder pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
PW-120_061312-1					
	VOA vial	3	HCl	VOC	1015

Comments Pump placement 30'

Signature _____ Date 6/13/12

AECOM

Well ID: PW-130

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1130 am/pm
Finish 1240 am/pm
Project No: 60163799
Site Location: Cranston RI
Weather Conds: Cloudy, cool
Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material 6"

b. Water Table Depth 8.45 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI 600xL	C	
HACH 2100Q	T3	
MP 30 water level		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1140	1.0	15.61	6.95	401	1.26	-110.1	35.7	100	8.50	none/none
1145	1.5	14.94	6.98	397	0.38	-124.1	21.7	100	8.50	none/none
1150	2.0	14.84	6.98	396	0.34	-126.4	15.1	100	8.50	none/non
1155	2.5	14.75	6.99	394	0.31	-128.3	11.9	100	8.50	none/non
1200	3.0	14.61	6.99	393	0.26	-131.4	7.03	100	8.50	none/none
1205	3.5	14.60	6.99	392	0.25	-132.5	5.31	100	8.50	none/none
1210	4.0	14.58	7.00	392	0.23	-133.1	4.53	100	8.50	none/none

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: non dedicated bladder pump.

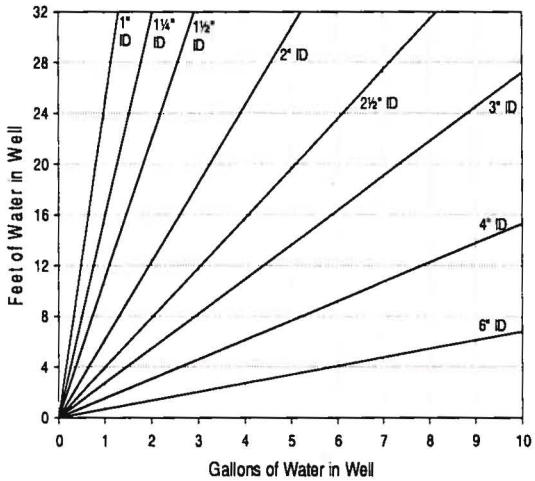
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
PW-130-061312-1		am +	PW-130-061312-2		
1220			1230		
	VOA vial	3	HCl	VOC	

Comments pump placement 36'

Signature [signature] Date 6/13/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1215	9.5	14.55	7.00	392	0.22	-136.7	3.97	100	8.5	none / none

AECOM

Well ID: MW-135

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 830 am/pm
Finish _____ am/pm
Project No: 60163799
Site Location: CRANSTON RI
Weather Conds: Overcast 60s
Collector(s): J. Chambert

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 18.37 c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 8.43 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	A		
	T1		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
903	0	14.43	6.66	364	0.28	150.2	>1000	200	8.50	brown / —
911		14.10	6.64	293	0.27	208.8	>1,000	200	8.50	brown / —
925	2 gal	14.47	6.62	277	0.20	108.0	>1,000	200	8.50	brown / —
937		14.56	6.64	287	0.25	179.3	>1,000	200	8.50	brown / —
945	3 gal	14.62	6.62	287	0.30	173.3	>1,000	200	8.50	brown / —
950		14.93	6.63	287	0.32	180.3	>1,000	200	8.50	brown / —
955		14.89	6.62	288	0.29	176.5	>1,000	200	8.50	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: Bladder

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-135-0614/2-1	VOAs	3	HCl	VOCs	1000

Comments Pump placement: 13'

Turbidity is very high. No change observed during the entire purging time. All other parameters were stable, take sample.

Signature _____ Date 6/14/12

AECOM

Well ID: P-13D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 0900 am/pm
Finish _____ am/pm
Project No: _____
Site Location: Cranston RI
Weather Conds: Cloudy warm
Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 40.02
c. Length of Water Column _____ (a-b)
Casing Diameter/Material _____

b. Water Table Depth 8.45
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI 600XL	C	
	HACH 2100 Q	T2	
	MI-30 water level		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0905	0.5	14.88	6.78	254	0.75	-99.3	72.9	100	9.03	none/none
0910	1.0	14.87	6.71	257	0.75	-86.8	34.7	100	9.00	
0920	2.0	15.17	6.63	259	0.43	-74.9	11.5	100	9.00	
0930	3.0	15.04	6.59	257	0.38	-70.9	7.25	100	9.00	
0940	4.0	14.90	6.55	254	0.32	-66.3	5.97	100	9.00	
0950	5.0	14.93	6.53	254	0.29	-66.5	4.00	100	9.00	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: non dedicated bladder pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
P-13D_061412-1	VOA vial	3	HCl	VOC	0955

Comments: Pump placement (screen interval: 3') : 37.5

Signature: [signature]
Date: 6/14/12

Replacement for MW-30D

Well ID: P-30D

AECOM

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/14/12 Time: Start 1035 am/pm
Project No: Finish 1345 am/pm
Site Location: Cranston RI
Weather Conds: Cloudy, cool / intermittent warm Collector(s): J. Webster

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 49.9 c. Length of Water Column _____ (a-b) Casing Diameter/Material 5"

b. Water Table Depth 8.75 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: non dedicated bladder pump.

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI 600XL	C	
	HACH 2100Q	T2	
	MP-30 Water level		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1115	1.35	17.47	9.05	221	1.15	-288.1	50.4	~30	0	none/none
1130	1.80	17.86	8.80	256	0.91	-286.1	34.3	~30	0	—/—
1145	2.25	18.34	8.54	280	0.78	-280.1	18.0	~30	0	—/—
1200	2.70	19.34	8.38	299	0.70	-274.6	18.2	~30	0	—/—
1215	3.15	20.89	8.26	317	0.67	-272.1	16.1	~30	0	—/—
1230	3.50	21.87	8.23	329	0.63	-259.8	10.9	~30	0	—/—
1245	3.95	23.87	8.20	347	0.60	-248.8	10.8	~30	0	—/—

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: non dedicated bladder pump.

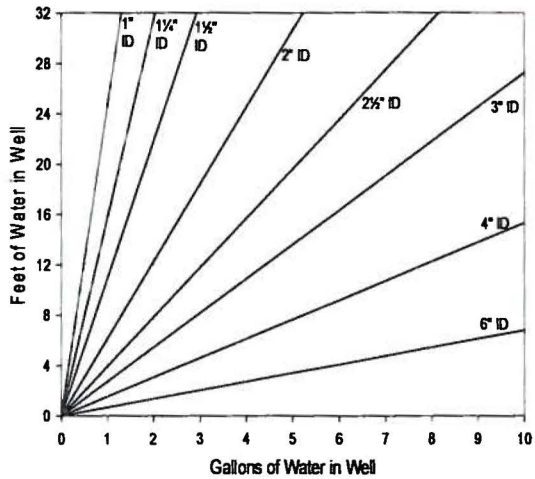
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
P-30D_061412-1					
	VOA vial	3	HCl	VOC	1320

Comments Pump placement 47.5' Screen interval: 3'
Flow rate @ maybe 30mL per min. Reading taken every 15min.

Signature [signature] Date 6/14/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1300	4.30	23.70	8.10	348	0.81	-265.0	11.0	~30	0	— / —
1315	4.75	23.60	7.95	349	0.79	-266.4	10.8	~30	0	— / —

AECOM

Well ID: MW-100S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 0845 am/pm
Finish 1000 am/pm
Project No: 60163799
Site Location: Cranston, RI
Weather Conds: 60's cloudy
Collector(s): C. Callahan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 15.00
c. Length of Water Column 8.66 (a-b)
Casing Diameter/Material 2" PVC
b. Water Table Depth 6.34
d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method: EPA Low Flow Non Dedicated Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	B
Hach	2100Q	T3

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0855	1	14.88	6.73	170	9.86	-8.9	9.7	100	6.43	clear/none
0900	1.5	14.71	6.80	170	8.20	-10.1	8.2	"	6.43	"
0905	2	14.65	6.82	170	8.80	-12.7	7.6	"	6.44	"
0910	2.5	14.61	6.83	169	8.11	-15.6	7.1	"	6.44	"
0915	3	14.58	6.84	169	7.99	-17.7	6.5	"	6.44	"
0920	3.5	14.55	6.85	169	7.91	-19.0	5.9	"	6.44	"
0925	4	14.50	6.85	169	7.85	-20.1	5.6	"	6.44	"

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: SAME

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-100S-061412-1	VOA	3	HCl	VOC's	0950

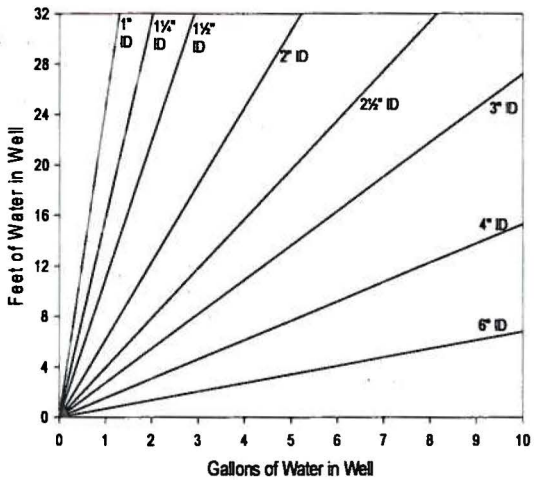
Comments Pump @ 10'

Signature

Date 6/14/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0930	4.5	14.50	6.90	169	7.90	-20.1	5.6	100	6.45	Clear/none
0935	5	14.48	6.89	169	7.91	-22.7	4.78	"	6.45	"
0940	5.5	14.47	6.88	169	7.92	-23.0	4.56	"	6.45	"
0945	6	14.47	6.88	169	7.93	-23.1	4.21	"	6.45	"

AECOM

Well ID: MW-100D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 0845 am/pm
Finish _____ am/pm
Project No: 60163799
Site Location: Cranston, RI
Weather Conds: 60's, Cloudy
Collector(s): K. Robinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 24.70
c. Length of Water Column _____ (a-b)
Casing Diameter/Material 2" PVC
b. Water Table Depth 6.98
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
YSI		600XL	F
Hach		2100Q	T-4

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0855	1	13.04	6.57	143	1.39	262	92.8	100	7.61	
0900	1.5	12.86	6.54	152	1.04	15.4	69.7	100	7.68	
0905	2	12.71	6.63	156	0.86	4.2	50.6	100	7.69	
0910	2.5	12.52	6.66	164	0.39	-3.7	200	100	7.71	
0915	3	12.34	6.68	172	0.31	-20.1	304	100	7.74	
0920	3.5	12.29	6.69	179	0.20	-64.3	283	100	7.79	
0925	4	12.24	6.69	181	0.15	-123.7	236	100	7.81	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: _____

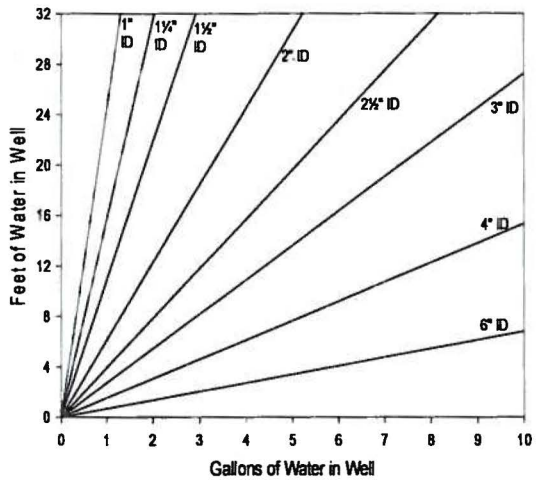
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-100D_06/14/12-1	VOA	3	HCl	VOCs	0955

Comments Screen interval: 5' pump @ 22.5'

Signature _____ Date 6/14/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0930	45	12.19	6.75	181	0.12	-131.3	219	7.82	100	
0935	5	12.19	6.74	181	0.11	-131.2	208	7.82	100	
0940	5.5	12.19	6.75	181	0.11	-131.1	199	7.82	100	
0945	6	12.19	6.74	181	0.11	-131.4		7.82	100	

AECOM

Well ID: MW-101S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1015 am/pm
Finish _____ am/pm
Project No: 60163799
Site Location: Cranston
Weather Conds: 60's Cloudy
Collector(s): K Robinson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 15.83
c. Length of Water Column _____ (a-b)
Casing Diameter/Material 2" PVC
b. Water Table Depth 6.98
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Non deaerated Bladder pump

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		E
Hach		F-4

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1025	1	14.51	6.99	196	2.49	-539	247	100	6.91	orange
1030	1.5	14.25	6.99	196	2.11	-502	236	100	6.91	orange
1035	2	14.13	6.99	198	1.95	-506	203	100	6.94	Orange
1040	2.5	13.98	6.99	199	1.88	-541	198	100	6.97	Orange
1045	3	13.72	7.00	202	1.69	-60.2	194	100	6.99	clear
1050	3.5	13.58	7.00	204	1.22	-61.3	133	100	7.01	
1055	4	13.52	7.00	206	0.95	-62.1	122.8	100	7.02	↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: non deaerated bladder pump

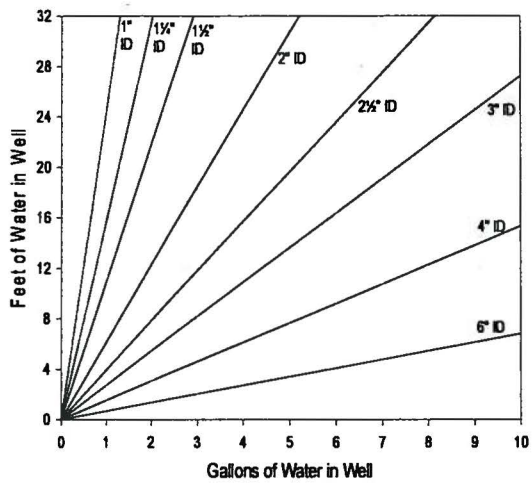
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-101S_061412-1	VOA	3	HCl	VOC's	1125

Comments Pump placed: 10'

Signature _____ Date _____

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor	
1100	1324		7.01	208	0.85	-63.1	102	100	7.08		7.5
1105	1322		7.01	208	0.85	-63.1	94.9	100	7.08		5
1110	1323		7.01	208	0.85	-63.1	94.8	100	7.08		5.5
1115	1322		7.01	208	0.85	-63.1	94.1	100	7.08		6

AECOM

Well ID: MW-101D

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1015 am/pm
Finish 1130 am/pm
Project No: 60163799
Site Location: Cranston, RI
Weather Conds: 60's, cloudy
Collector(s): C. Callahan

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 24.8
c. Length of Water Column 17.45 (a-b)
Casing Diameter/Material 2" PVC
b. Water Table Depth 7.35
d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method: EPA Low Flow Non Dedicated Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	R
	Hach	2100Q	T3

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1025	1	13.44	6.50	259	1.55	48.9	14.6	100	7.56	Clear/None
1030	1.5	12.91	6.30	258	0.21	49.4	12.7	"	7.65	"
1035	2	12.50	6.39	299	0.11	0.76	6.4	"	7.65	"
1040	2.5	12.22	6.55	310	2.62	-77.0	7.5	"	7.65	"
1045	3	12.20	6.61	313	1.80	-101.6	6.9	"	7.65	"
1050	3.5	12.10	6.63	316	1.21	-126.8	6.9	"	7.65	"
1055	4	12.00	6.65	330	0.98	-151.1	6.6	"	7.65	"

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: SDME

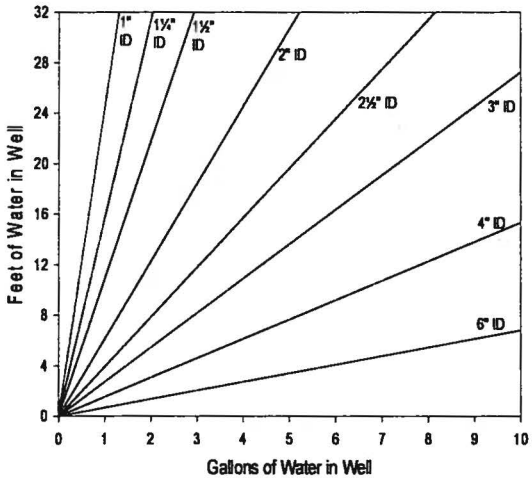
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-101D_061412-1	VOA	3	HCl	VOC	1120

Comments: Pump @ 22.5' (screen interval 5')

Signature: [signature]
Date: 6/14/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1100	4.5	12.59	6.75	330	0.97	-161.7	4.21	100	7.65	Clear/None
1105	5	12.58	6.76	330	0.97	-164.7	4.07	"	7.65	"
1110	5.5	12.58	6.76	331	0.96	-165.0	3.98	"	7.65	"
1115	6	12.58	6.77	332	0.96	-165.2	3.92	"	7.65	"

AECOM

Well ID: MW-21S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1030 am/pm
Finish 1150 am/pm
Project No: 60163799
Site Location: Cranston RI
Weather Conds: overcast 60
Collector(s): J. Chonhol

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b)

Casing Diameter/Material _____

b. Water Table Depth 5.10 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
A		
T1		

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1050	1	15.22	6.45	52	0.42	1.0	16.1	200	6.3	—/—
1055		15.60	6.93	52	0.58	-8.9	14.3	200	6.3	—/—
1100		15.60	6.91	52	0.61	-14.3	14.8	100	6.2	—/—
1105		15.62	6.88	51	0.58	-22.5	12.7	100	6.2	—/—
1110		15.58	6.88	49	0.57	-31.6	8.83	100	6.2	—/—
1115		15.72	6.87	47	0.69	-37.0	8.35	100	6.2	—/—
1120		15.73	6.87	47	0.62	-40.7	8.63	100	6.2	—/—

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: Bladder

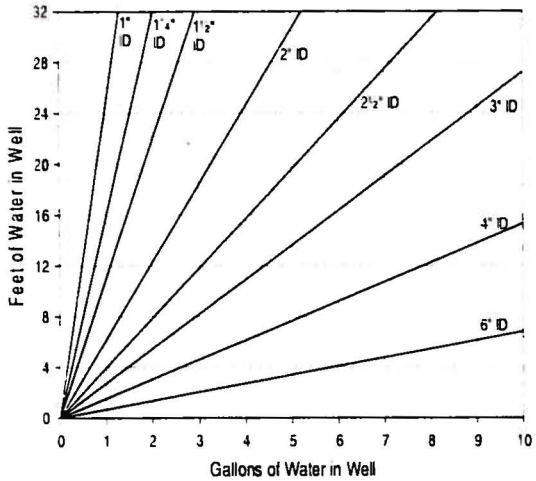
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-21S-061412-1	Vial	3	HCl	VOC	1140

Comments Pump placement 8'

Signature [signature] Date 6/14/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1125	2 gal	15.78	6.87	46	0.62	-43.5	7.17	100	6.10	none/none
1130		15.97	6.87	46	0.65	-46.9	7.41	100	6.10	— / —
1135		15.88	6.86	46	0.62	-47.9	5.77	100	6.10	— / —
1140		15.91	6.85	46	0.63	-48.8	4.85	100	6.10	— / —
		(SD)								

AECOM

Well ID: MW-22S

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1255 am/pm
Finish 1405 am/pm
Project No: 60163799
Site Location: Cranston, RI
Weather Conds: 60's, cloudy
Collector(s): C Callahan / K Rathsen

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 20.30
c. Length of Water Column 14.05 (a-b)
Casing Diameter/Material 4" SS
b. Water Table Depth 6.25
d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method: EPA Low Flow Non Dedicated Bladder

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	F
Hach	2100Q	T3

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1305	1	15.91	6.42	139	1.06	55.0	56.5	100	14.10	clear/none
1310	1.5	15.92	6.40	138	0.79	61.1	21.6	"	14.10	"
1315	2	15.93	6.39	137	0.78	63.4	15.7	"	14.11	"
1320	2.5	15.94	6.38	137	0.76	65.9	9.6	"	14.12	"
1325	3	15.95	6.37	136	0.75	67.1	8.4	"	14.12	"
1330	3.5	15.96	6.35	135	0.75	68.5	7.1	"	14.13	"
1335	4	15.97	6.34	135	0.75	69.7	6.8	"	14.13	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: SAME

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-22S_061412-1	VOA	3	HCl	VOC's	1400

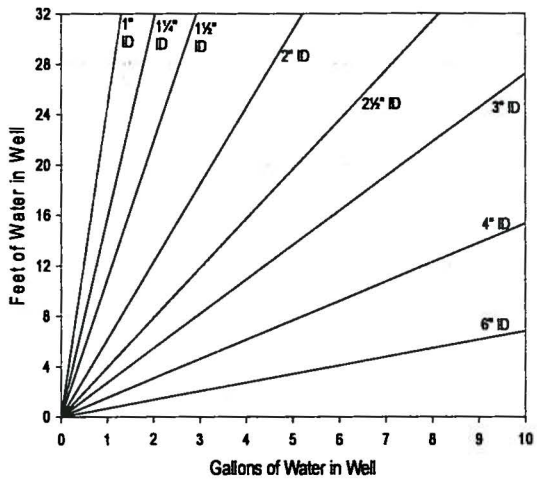
Comments Pump @ 15'

Signature

Date 6/14/12

Purge Volume Calculation

AECOM



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1340	4.5	15.98	6.30	135	0.73	71.1	5.26	100	14.14	Clear/none
1345	5	15.99	6.28	135	0.72	71.5	5.01	"	14.14	"
1350	5.5	15.99	6.28	134	0.71	72.5	4.77	"	14.14	"
1355	6	15.99	6.27	134	0.71	72.8	4.31	"	14.14	"

AECOM

Well ID: GW-1 (26-28)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1628 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston RI
Weather Conds: Cloudy, light rain
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 28'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp 1" STEEL
b. Water Table Depth _____
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing stuck at 27'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	08B1041AF
	Hach	2100Q	1109000013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1625	1.0	15.01	7.04	261	0.33	-138.2	71,000	200	NM	Grey / none
1630	2.0	14.54	7.08	256	0.14	-147.2	71,000	200		
1635	3.0	14.37	7.00	250	0.14	-137.5	71,000	200		
1640	4.0	14.30	6.96	248	0.14	-125.7	71,000	200		
1645	5.0	14.09	6.92	245	0.14	-113.5	210	200		cloudy / none

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW1(26-28)-061312-1	40mL-V	3	HCL	8260	1650

Comments: pump on at 1620

Signature: Tom Croft
Date: 6/13/12

AECOM

Well ID: GW-1 (31-33)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/14/12 Time: Start 0805 am/pm
Project No: Finish _____ am/pm
Site Location: 180 Mill St, Cranston, RI
Weather Conds: overcast, 60s, dry Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 33' c. Length of Water Column _____ (a-b)

Casing Diameter/Material: Temp 1" Steel

b. Water Table Depth ~10' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 32'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	02B0141AF
	Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0810	1.0	15.09	7.36	553	0.41	-190.1	71.00	200	NM	cloudy gray / slight petroleum like
0815	2.0	14.01	6.78	359	0.26	-121.6	472	200		
0820	3.0	13.83	6.73	352	0.22	-77.2	127	200		
0825	4.0	13.74	6.35	350	0.21	-63.2	73.3	200		
0830	5.0	13.70	6.77	349	0.19	-63.3	60.7	200		

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☒
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☐	☒	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW1(31-33)-061412-1	40mL-V	3	HCL	8260	0835

Comments: pump on at 0805

Signature: Tom Croft Date: 6/14/12

AECOM

Well ID: GW-2 (26-28)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1450 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston RI
Weather Conds: 60s, light rain
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 28
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp. 1" Steel
b. Water Table Depth _____
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Peristaltic pump - Tubing intake at 27'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B1041AE
Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1455	1.0	15.26	6.70	262	0.20	-94.8	>1,000	200	NM	gray / none
1500	2.0	14.91	6.72	263	0.18	-98.4	>1,000	200	NM	
1505	3.0	14.84	6.70	265	0.09	-100.3	>1,000	200	NM	
1510	4.0	14.77	6.71	266	0.08	-101.4	>1,000	200	NM	
1515	5.0	14.62	6.71	266	0.08	-101.7		200	NM	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW2(26-28)-061312-1	40mL VOA	3	HCl	8260	1520

Comments: pump on at 1450

Signature: Tom Croft
Date: 6/13/12

AECOM

Well ID: GW2(31-33)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/13/12 Time: Start 1530 am/pm
Project No: Finish ____ am/pm
Site Location: 100 Mill St, Cranston, RI
Weather Conds: 60s, light rain Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 33' c. Length of Water Column ____ (a-b) Casing Diameter/Material Temp 1" Steel

b. Water Table Depth ____ d. Calculated System Volume (see back) ____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 32'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02A1041AF
Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1535	1.0	15.59	6.63	285	0.38	-92.9	>1,000	200	NM	gray/none
1540	2.0	15.31	6.63	283	0.25	-101.9	>1,000	200		
1545	3.0	15.12	6.63	282	0.21	-105.9	>1,000	200		
1550	4.0	15.03	6.64	282	0.18	-107.5	>1,000	200		
1555	5.0	14.99	6.64	282	0.17	-108.5	>1,000	200		

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW2(31-33)-OC1312-1	40mL-V	3	HCL	8260	1600

Comments pump on at 1530

Signature Tom Croft Date 6/13/12

AECOM

Well ID: GW-3 (26-28)

Low Flow Ground Water Sample Collection Record

Client: AECOM Date: 6/13/12 Time: Start 1310 am/pm
Project No: Finish ____ am/pm
Site Location: 180 Mill St., Cranston, RI
Weather Conds: 60s, light rain Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length ____ c. Length of Water Column ____ (a-b) Casing Diameter/Material: Temp 1" Steel

b. Water Table Depth ____ d. Calculated System Volume (see back) ____

2. WELL PURGE DATA

a. Purge Method: ____

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B1041AF
Hach	2100Q	110900013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1315	0.75	15.83	6.80	263	0.14	-125.3	>1,000	150	NM	Brown/none
1320	1.50	15.58	6.74	257	0.13	-122.1	>1,000	150	NM	
1325	2.25	15.35	6.66	250	0.13	-114.2	>1,000	150	NM	
1330	3.00	15.26	6.62	247	0.14	-111.1	>1,000	150	NM	
1335	3.75	15.27	6.59	244	0.14	-104.6	>1,000	150	NM	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW3(26-28)-061912-1	40mL-V	3	HCL	8260	1340

Comments: pump on at 1310

Signature: Tom Croft Date: 6/13/12

AECOM

Well ID: GW-3(31-33)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 1350 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston, RI
Weather Conds: 60s, light rain
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 33'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp. 1" steel
b. Water Table Depth _____
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 32'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	02B1041AF
	Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1355	0.75	16.31	6.43	260	0.16	-18.6	>1,000	150	NM	Brown/none
1400	~~0.50~~ 1.75	15.80	6.33	255	0.07	-9.8	>1,000	200	NM	
1405	2.75	15.61	6.38	251	0.08	-8.8	>1,000	200	NM	
1410	3.75	15.68	6.46	249	0.07	-12.4	>1,000	200	NM	
1415	4.75	15.71	6.48	246	0.07	-12.1	>1,000	200	NM	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW3(31-33)-061312-1	40mL-V	3	HCL	8260	1420

Comments: pump on at 1350

Signature: Tom Croft
Date: 6/13/12

AECOM

Well ID: GW4 (26-28)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start _____ am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston, RI
Weather Conds: 60s, light rain
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 28
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp. 1" Steel
b. Water Table Depth _____
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Peristaltic pump — tubing intake at 27'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B1041AF
Hach	2100Q	110 [illegible]

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
~~1030~~ 1110	0.75	15.61	6.26	241	0.50	7.3	>1,000	150	NM	Brown/none
1115	1.50	15.08	6.18	235	0.24	1.2	>1,000	150	NM	
1120	2.25	14.96	6.17	233	0.14	-6.0	>1,000	150	NM	
1125	3.00	14.85	6.16	232	0.11	-10.1	>1,000	150	NM	
1130	3.75	14.74	6.16	232	0.11	-12.6	>1,000	150	NM	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW4(26-28)-061312-1	40mL-V	~~4~~ 3	HCL	8260	1135
GW4(26-28)-061312-2	Duplicate				~~1135~~ 1140

Comments: Pump on at 1105

Signature: Tom Croft
Date: 6/13/12

AECOM

Well ID: GW-4 (31-33)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/13/12 Time: Start 1155 am/pm
Project No: Finish _____ am/pm
Site Location: 180 Mill St., Constantia NY
Weather Conds: Cloudy, light rain Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 33 c. Length of Water Column _____ (a-b) Casing Diameter/Material _____

b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 32'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	02B1041AF
	Hach	2100Q	11090013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1200	0.75	16.41	6.22	243	0.77	31.3	>1,000	150	NM	gray / none
1205	1.50	16.11	6.15	242	0.20	17.1	>1,000	150	NM	
1210	2.25	15.76	6.15	242	0.17	0.4	>1,000	150	NM	
1215	3.00	15.76	6.15	242	0.12	-11.0	>1,000	150	NM	
1220	3.75	15.68	6.15	241	0.12	-13.5	>1,000	150	NM	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW4(31-33)-061312-1	40mL-V	3	HCL	8260	1225

Comments pump on at 1155

Signature Tom Croft Date 6/13/12

AECOM

Well ID: GW-5 (23-27)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/13/12
Time: Start 0850 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston, RI
Weather Conds: 60s, light rain
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 27'
c. Length of Water Column _____ (a-b)
b. Water Table Depth _____
d. Calculated System Volume (see back) _____

Casing Diameter/Material: grab sample Temp. steel 1"

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 26'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B1041AF
Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0905	1.4	14.63	6.33	317	2.53	-111.6	>1,000	280	NM	brown/none
0910	2.8	14.01	6.37	259	0.24	-118.6	>1,000	280	↓	↓
0915	4.2	13.84	6.45	258	0.20	-119.2	>1,000	280	↓	↓
0920	5.2	13.36	6.52	257	0.19	-103.7	647	200	↓	↓
0925	6.2	13.73	6.54	256	0.17	-80.7	247	200	↓	↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW5(23-27)-061312-1	40mL-V	3	HCL	8260	09:30

MS/MSD collected — 6 extra bottles, same ID

Comments: pump on at 0900

Signature: Tom Croft
Date: 6/13/12

AECOM

Well ID: GW5 (30-32)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/13/12 Time: Start 1000 am/pm
Project No: Finish _____ am/pm
Site Location: 180 Mill St, Cranston, RI
Weather Conds: 60s, light rain Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 32 c. Length of Water Column _____ (a-b)

Casing Diameter/Material: Temp. 1" steel

b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 31'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	08B0141AF
Hach	2100Q	1109C00130C9

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1005	0.75	14.41	6.55	274	0.42	-73.2	71,000	150	nm	Brown/none
1010	1.50	14.23	6.57	274	0.27	-81.1	71,000	150	nm	
1015	2.25	14.16	6.56	273	0.21	-85.2	71,000	150	nm	
1020	3.00	14.07	6.56	273	0.19	-87.9	71,000	150	nm	
1025	3.75	14.09	6.56	272	0.17	-89.4		150	nm	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

(continued on back)

If no or N/A - Explain below.

grab

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW5(30-32)-061312-1	40 ml-V	3	HCL	8260	1030

Comments: pump on at 1000

Signature: Tom Croft Date: 6/13/12

AECOM

Well ID: GW-6(~~20-22~~ 19-21)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/14/12 Time: Start 0855 am/pm
Project No: Finish ____ am/pm
Site Location: 180 Mill St. Cranston, RI
Weather Conds: overcast, 60s, dry Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length ~~22~~ 21' c. Length of Water Column ____ (a-b) Casing Diameter/Material: Temp 1" steel

b. Water Table Depth ~10' d. Calculated System Volume (see back) ____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 20'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B0141AF
Hach	2100Q	1109000:3069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0900	1.0	14.20	6.83	366	2.39	-73.8	>1,000	200	NM	cloudy gray/solvent-li
0905	2.0	13.72	6.93	365	0.55	-89.2	>1,000	200		
0910	3.0	13.39	6.97	366	0.30	-94.3	868	200		
0915	4.0	13.25	6.93	364	0.25	-89.4	484	200		
0920	5.0	13.13	6.95	372	0.22	-93.1	272	200		

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW6(~~20-22~~ 19-21)-061412-1	40mL-V	3	HCL	8260	0925

MS/MSD collected as 6 extra VOAs with same ID

Comments: pump on at 0855

Signature: Tom Croft Date: 6/14/12

AECOM

Well ID: GW-6 (24-26)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 0940 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston, RI
Weather Conds: overcast, 60s, dry
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 26'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp 1" Steel
b. Water Table Depth ~10'
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 25'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	02B0141AF
	Hach	2100 Q	110900013009

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0945	1.0	13.94	6.92	265	0.58	-77.6	71,000	200	NM	cloudy, gray / solvent-like
0950	2.0	13.62	6.90	264	0.26	-82.6	71,000	200		
0955	3.0	13.48	6.89	264	0.21	-85.4	924	200		
1000	4.0	13.48	6.89	263	0.20	-83.8	562	200		
1005	5.0	13.47	6.89	263	0.20	-84.1	400	200		

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW6(24-26)-061412-1	40mL-V	3	HCL	8260	1010

Comments: pump on at 0940

Signature: Tom Croft
Date: 6/14/12

AECOM

Well ID: GW-7 (19-21)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1025 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 100 Mill St, Cranston, RI
Weather Conds: overcast 60's, dry
Collector(s): Tom Croff

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 21'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp 1" Steel
b. Water Table Depth ~10'
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump – tubing intake at 20'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	02B0141AF
	Hach	2100Q	11090 C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1030	1.0	14.04	7.17	338	0.86	-95.9	>1,000	200	NM	gray/solvent-like
1035	2.0	13.65	7.18	331	0.14	-101.7	>1,000	200		
1040	3.0	13.30	7.10	319	0.11	-95.4	>1,000	200		
1045	4.0	13.13	7.04	310	0.12	-94.4	617	200		
1050	5.0	13.07	7.02	307	0.12	-94.8	356	200		

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW7(19-21)-061412-1	40mL-V	3	HCL	8260	1055
GW7(19-21)-061412-2	Duplicate	3	HCL	8260	1100

Comments: pump on at 1025
→ air bubbles in tubing

Signature: Tom Croff
Date: 6/14/12

AECOM

Well ID: GW-7 (24-26)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/14/12 Time: Start 1105 am/pm
Project No: Finish _____ am/pm
Site Location: 180 Mill St, Cranston, RI
Weather Conds: overcast, 60s, dry Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 26' c. Length of Water Column _____ (a-b)

Casing Diameter/Material: Temp 1" Steel

b. Water Table Depth ~10' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 25'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B0141AF
Hach	2100Q	1090100013067

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1110	1.0	14.24	7.09	358	1.56	-86.4	>1,000	200	NM	gray / solvent-like
1115	2.0	13.97	6.99	366	2.66	-75.6	>1,000	200	↓	
1120	3.0	13.82	6.95	368	3.26	-72.0	>1,000	200		
1125	4.0	13.80	6.93	369	3.55	-72.6	>1,000	200		
1130	5.0	13.78	6.92	369	3.61	-72.3	>1,000	200	↓	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW7(24-26)-061412-1	40mL-V	3	HCL	8260	1135

Comments: pump on at 1105
- air bubbles in tubing

Signature: Tom Croft Date: 6/14/12

AECOM

Well ID: GW-8 (19-21)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1145 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston, RI
Weather Conds: overcast, 60s, dry
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 21'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp 1" steel
b. Water Table Depth ~10'
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 20'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	6600	02B0141AF
	Hach	2100Q	110900613069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1150	0.75	15.49	7.12	511	0.26	-116.0	71,000	150	NM	gray/solvent-like
1155	1.50	15.46	7.10	516	0.15	-115.0	71,000	150		
1200	2.25	15.26	7.08	519	0.12	-115.0	71,000	150		
1205	3.00	15.16	7.06	519	0.12	-115.0	71,000	150		
1210	3.75	15.24	7.05	517	0.13	-115.8		150		

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW8 (19-21)-061412-1	40mL-V	3	HCL	8260	1215

Comments: pump on at 1145

Signature: Tom Croft
Date: 6/14/12

AECOM

Well ID: GW8(24-26)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/14/12 Time: Start 1220 am/pm
Project No: Finish _____ am/pm
Site Location: 180 Mill St, Cranston, RI
Weather Conds: Sunny, 70s, dry Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 26' c. Length of Water Column _____ (a-b)

Casing Diameter/Material: Temp 1" Steel

b. Water Table Depth ~10' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 25'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B0141AF
Hach	2100 Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1225	1.0	16.23	6.77	295	0.85	-78.4	>1,000	200	NM	grey / solvent-like
1230	2.0	15.69	6.74	290	0.24	-79.9	>1,000	↓	↓	↓
1235	3.0	15.42	6.74	288	0.22	-81.1	>1,000	↓	↓	↓
1240	4.0	15.20	6.74	287	0.22	-82.5	424	↓	↓	↓
1245	5.0	15.02	6.74	286	0.21	-80.2	104	↓	↓	↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW8(24-26)-061412-1	40mL-V	3	HCL	8260	1250

Comments: Pump on at 1220

Signature: Tom Croft Date: 6/14/12

AECOM

Well ID: GW-9 (19-21)

Low Flow Ground Water Sample Collection Record

Client: BASF Date: 6/14/12 Time: Start 1300 am/pm
Project No: Finish _____ am/pm
Site Location: 180 Mill St, Cranston, RI
Weather Conds: Sunny, 70s, dry Collector(s): Tom Goff

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 21' c. Length of Water Column _____ (a-b)

Casing Diameter/Material: Temp. 1" Steel

b. Water Table Depth 1/8' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 20'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

	Make	Model	Serial Number
	YSI	600XL	02B0141AF
	Hach	2100Q	11070010369

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1305	1.0	15.77	6.37	317	0.31	10.8	>1,000	200	NM	gray/none
1310	2.0	14.95	6.33	316	0.22	8.8	>1,000	200	↓	
1315	3.0	14.68	6.32	317	0.22	5.7	>1,000	200	↓	
1320	4.0	14.55	6.30	312	0.17	4.1	940	200	↓	
1325	5.0	14.53	6.29	310	0.16	3.5	418	200	↓	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW9(19-21)-061412-1	40mL-V	3	HCL	8260	1330

Comments: pump on at 1300

Signature: Tom Goff Date: 6/14/12

AECOM

Well ID: GW-9(24-26)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1340 am/pm
Project No:
Finish ____ am/pm
Site Location: 180 Mill St, Cranston, RI
Weather Conds: Sunny, 70s, dry
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 26'
c. Length of Water Column ____ (a-b)
Casing Diameter/Material: Temp. 1" Steel
b. Water Table Depth ~10'
d. Calculated System Volume (see back) ____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump - tubing intake at 25'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B0141AF
Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1345	1.0	15.21	6.20	287	0.37	69.4	>1,000	200	NM	cloudy gray/none
1350	2.0	15.11	6.18	286	0.21	65.5	>1,000	200	↓	↓
1355	3.0	14.65	6.17	284	0.16	64.8	>1,000	200	↓	↓
1400	4.0	14.49	6.15	282	0.15	60.1	>1,000	200	↓	↓
1405	5.0	14.39	6.15	282	0.15	60.9	~~>1,000~~ 884	200	↓	↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW9(24-26)-061412-1	40 mL-V	3	~~[illegible]~~ HCL	8260	1410

Comments: pump on at 1340

Signature: Tom Croft
Date: 6/14/12

AECOM

Well ID: GW-10 (19-21)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1425 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St., Cranston, RI
Weather Conds: sunny, 70's, dry
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 22-21'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp. 1" Steel
b. Water Table Depth ~10'
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump – Tubing intake at ~~to~~ 20'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B0141AF
Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1430	1.0	15.62	6.79	313	0.69	-94.4	>1,000	200	NM	gray/none
1435	2.0	15.15	6.88	314	0.27	-110.6	>1,000	200	NM	↓
1440	3.0	14.97	6.96	314	0.16	-119.3	>1,000	200	NM	↓
1445	4.0	14.66	7.02	313	0.12	-126.2	>1,000	200	NM	↓
1450	5.0	14.53	7.03	312	0.12	-127.6	>1,000	200	NM	↓

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW10(19-21)-061412-1	40mL-V	3	HCL	8260	1455

Comments: pump off on at 1425

Signature: Tom Croft
Date: 6/14/12

AECOM

Well ID: GW-10 (24-26)

Low Flow Ground Water Sample Collection Record

Client: BASF
Date: 6/14/12
Time: Start 1510 am/pm
Finish _____ am/pm
Project No: _____
Site Location: 180 Mill St, Cranston, RI
Weather Conds: sunny, 70s, dry
Collector(s): Tom Croft

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 26'
c. Length of Water Column _____ (a-b)
Casing Diameter/Material: Temp. 1" Steel
b. Water Table Depth ~10'
d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: peristaltic pump – tubing intake at 25'

b. Acceptance Criteria defined (see workplan)

- Temperature	3%	-D.O.	10%
- pH	± 1.0 unit	- ORP	± 10mV
- Sp. Cond.	3%	- Drawdown	< 0.3'

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI	600XL	02B0741AF
Hach	2100Q	11090C013069

Time (24hr)	Volume Removed (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
1515	1.0	15.21	6.70	314	1.99	-75.9	>1,000	200	nm	gray/none
1520	2.0	15.62	6.86	312	0.28	-118.0	>1,000	↓	↓	↓
1525	3.0	15.29	7.04	313	0.49	-132.4	>1,000	↓	↓	↓
1530	4.0	15.22	7.06	313	0.60	-141.0	>1,000	↓	↓	↓
1535	5.0	15.16	7.07	313	0.48	-141.3	>1,000	↓	↓	↓

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method: grab

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
GW10(24-26)-061412-1	40mL-V	3	HCL	8260	1548

Comments: pump on at 1510

Signature: Tom Croft
Date: 6/14/12

Appendix D

Summary Report for Direct Sensing Services

ZEBRA

July 24, 2012

Julien Chambert
AECOM
250 Apollo Drive Suite 341
Chelmsford, MA 01824

Attention: Mr. Chambert
RE: Summary Report for Direct Sensing Services
Former Scott Aviation Inc. Site
Cranston Site
ZEBRA RFP NO. DS20416

Dear Mr. Chambert:

The following is a summary of site activities performed by ZEBRA Environmental at the AECOM Cranston, RI Site this report also includes a list of project personnel, a summary of the equipment used in the project and the capabilities of the equipment. A detailed description of the work performed follows this summary, and includes subsections on data acquisition and detector operation. The work was started and finished on July 24, 2012.

SITE PROJECT PERSONNEL:
Mr. Julien Chambert, AECOM
Mr. Brad Carlson, ZEBRA Environmental
Mr. Will McAllister, ZEBRA Environmental

SUMMARY OF EQUIPMENT USED IN THE PROJECT AND CAPABILITIES

The following list includes the equipment used for this project. More in-depth descriptions are included in other sections of this report.

1. Electrical Conductivity (EC) / Membrane Interface Probe (MIP) Unit
2. Probe Rods
3. Data Acquisition Vehicle
   - MIP controller unit
   - MIP6500 Series Probe (120v)
   - PEEK Trunklines
   - FC5000 Field Computer
   - Laptop Computer/Printer
   - Gas Chromatograph fitted with a Electron Capture Detector (ECD), Photo Ionization Detector (PID) and a Flame Ionization Detector (FID)
   - Electrical generator

used to standardize the results. Care must be taken to ensure that the samples are collected at the specific portions of the profile where the MIP data was collected. The inherent non-homogenous nature of soil and aquifer materials will result in some inconsistency between MIP data and quantitative analytical results, so the standardization process cannot be completely precise.

DETAILED DESCRIPTION OF SITE ACTIVITIES

ZEBRA mobilized a fully equipped Electrical Conductivity/Membrane Interface Probe System (EC/MIP) mounted on a Gator Unit to the site. The "data acquisition vehicle" carried the system 6500 Gas Controller unit, FC5000 Field Computer, printer, O.I. Analytical Model 4430 Photoionization Detector (PID) and Flame Ionization Detector (FID), O.I. Analytical Electron Capture Detector (ECD), generator and all required compressed gases, two (2) complete assemblies of MIP probes, probe rods and trunk lines, as well as all the tools and supplies needed for the EC/MIP logging. The ZEBRA field team utilized a track mounted Model 6600DT Geoprobe unit to advance the EC/MIP probes into the subsurface.

The project involved logging two-hundred (200) feet at six (6) locations identified by the representatives of AECOM, and ZEBRA. Project Personnel recorded the location of the logging/sampling locations on a site plan. The work was started and finished on July 24, 2012.

At each location the EC/MIP probe was advanced to the target depth in 1 foot intervals. As the probe was being driven to depth, the electrical conductivity data and detector responses were being continuously recorded by the system's data acquisition hardware and software. Upon completion of the logging, the probe rod assembly was extracted from the ground and cleaned, and the borehole filled with Bentonite.

The Membrane Interface Probe (MIP) is a percussion tolerant VOC sensor that can continuously log volatile organics that diffuse through a semi-permeable membrane. Using a carrier gas, the VOC's are brought to the surface through tubing, which is connected to a laboratory grade Electron Capture Detector (ECD), Photoionization Detector (PID) and Flame Ionization Detector (FID) for immediate screening. All of these detectors are mounted in a Hewlett Packard 5890 Series II Gas Chromatograph cabinet. The following is a description of the ECD, PID and FID.

Electron Capture Detector (ECD)

Highly sensitive detector used to detect Hydrocarbons
Compounds of Interest: Chlorinated Compounds (Halogentated)
Detection Sensitivity: > 500 PPB
Detection Range: approximately 10^7

The radioactive Nickel 63 sealed inside the ECD detector emits electrons (beta particles) which collide with and ionize the make-up gas molecules (either nitrogen or P5). This reaction forms a stable cloud of free electrons in the ECD detector cell. The ECD electronics work to maintain a constant current equal to the standing current through the electron cloud by applying a periodic

- Compressed Gas Cylinders

The following lists the capabilities of the Electrical Conductivity and Membrane Interface Probe Unit. More in-depth descriptions for this technology are included in other sections of this report.

Electrical Conductivity Probe Capabilities

The electrical conductivity (EC) probe measures the relative electrical conductivity of soil and ground water in contact with the probe, and provides a means to estimate the relative grain size distribution of the soil particles. Higher relative electrical conductivity measured by the probe should be interpreted as indicative of the presence of more colloidal sized soil particles compared with soil horizons exhibiting lower conductivity. The soil zones with lower relative electrical conductivity measured by the probe should be interpreted as indicative of less colloidal sized soil particles, and the presence of a greater percentage of silt and sand sized particles.

Since these measurements are relative, collection of soil cores adjacent to one or more of the EC probe locations for comparison to the EC data can be used to standardize the results. The physical inspection of grain size distribution in the different soil horizons can then be compared to the EC data to make inferences regarding the EC data at other locations where soil samples were not collected. Alternatively, the EC data can be compared to well logs collected adjacent to one of the probe locations for standardization.

The EC probe data will also be influenced by other electrolytes in the soil or aquifer. Salt water intrusion, brine spills, excessive fertilizer applications or other events that increase the loading of ions in the soil/aquifer matrix will influence EC results. It is not anticipated that any of these type events have occurred at this site.

Membrane Interface Probe Capabilities

The Membrane Interface Probe (MIP) measures the relative concentration of Volatile Organic Compounds (VOCs) in the soil and aquifer adjacent to a sampling window in the probe body. Heating of the soil and aquifer in direct contact with the probe increases the potential volatilization of the VOCs which can move through a membrane in the sampling window in response to the concentration gradient on either side of the membrane. Once the VOCs have diffused through the membrane, they are entrained in a carrier gas that delivers them to detectors in an above-ground gas chromatograph. The detectors produce a signal deflection in response to the VOCs, which is captured and stored for future interpretation.

The MIP can detect the presence of gross VOCs, but does not produce concentration data or specific compound speciation. The lower limit of detection is influenced by the in situ conditions, the contaminants, the detectors used and other on site conditions. In general, halogenated compounds are detected at lower concentrations compared to non-halogenated organic compounds.

Since these data are relative to each other, collection of discrete soil or groundwater samples adjacent to one or more of the MIP probe locations for comparison to the response data can be

pulse to the anode and cathode. The standing current value is selected by the operator; the standing current value sets the pulse rate through the ECD cell, a standing current value of 300 means that the detector electronics will maintain a constant current of 0.3 nanoamperes through the ECD cell by periodically pulsing. If the current drops below the set standing current value, the number of pulses per second increases to maintain the standing current. When electronegative compounds enter the ECD cell from the column, they immediately combine with some of the free electrons, temporarily reducing the number remaining in the electron cloud. When the electron population is decreased, the pulse rate is increased to maintain a constant current equal to the standing current. The pulse rate is converted to an analog output, which is acquired by the HP data system. Unlike other detectors which measure an increase in signal response, the ECD detector electronics measure the pulse rate needed to maintain the standing current.

Photo Ionization Detector (PID)

Highly sensitive detector used to detect Hydrocarbons (ionization potential < 10.6 eV)
Compounds of Interest: Volatile Organic Hydrocarbons (Aromatic)
Detection Sensitivity: > 1.0 PPM
Detection Range: approximately 10^6

The Photo Ionization Detector (PID) responds to all molecules whose ionization potential is below 10.6eV, including aromatics and molecules with carbon double bonds. The PID is nondestructive, so the sample can be routed through the PID and passed on, in series, with the FID.

Flame Ionization Detector

Highly sensitive detector used to detect Hydrocarbons
Compounds of Interest: Volatile Organic Hydrocarbons
Detection Sensitivity: > 100 PPB
Detection Range: approximately 10^7

The Flame Ionization Detector (FID) is the most popular detector. Its popularity is due to its universal response and its ease of use. The FID responds to carbon and therefore produces a signal for all carbon containing compounds. The FID responds to any molecule with a carbon-hydrogen bond, such as aliphatic straight chained molecules, but its response is either poor or nonexistent to compounds such as CCl_4 or NH_3. Since the FID is mass sensitive, and not concentration sensitive, changes in the carrier gas flow rate have little effect on the detector response. It is preferred for general hydrocarbon analysis. The FID response is stable from day to day. It is generally robust and easy to operate. But because it uses a hydrogen diffusion flame to ionize compounds for analysis, it destroys the sample in the process.

Soil Conductivity System

An integral part of the MIP system is the direct sensing soil conductivity system. This system utilizes a specially designed probe that will withstand the rigors of percussion probing while taking continuous measurements of soil conductivity as it is being driven into the ground. The sensing probe is linked to a control box where the signal is received by a lap top computer. The signal from the probe is matched with precise depth measurements and logged on the screen. The consultant is able to read real time data showing changes in soil conductivity/resistivity. These changes can be used to identify lithology, contaminant mass, salt-water intrusion, or any other subsurface condition that displays a change in conductivity/resistivity.

Data Presentation

A summary of the logging point name and the terminal depth achieved is presented in the ***MIP field book*** (MIPFieldBook_AECOM.xls) in Microsoft Excel Format has been prepared and e-mailed to you.

A Log displaying the response from each of the three (3) detectors (ECD, PID, and FID) and Conductivity has been prepared e-mailed. The logs showing the ECD, PID, and FID detector response reported in micro volts, and the conductivity in MilliSiemens per meter. The depth below grade is depicted on the X - axis with 0 feet (land surface) located at the bottom left of the page. The maximum depth logged below grade is at the bottom right of the page. Regarding electronic data transfer, all data collected on site has been compiled on Excel spread sheets and submitted to you via e-mail.

ZEBRA appreciates the opportunity to provide these services and looks forward to working with AECOM in the future. Should there be any questions regarding this project or our other services, please do not hesitate to contact us.

Sincerely yours,

William B. Carlson
ZEBRA Environmental Corp.

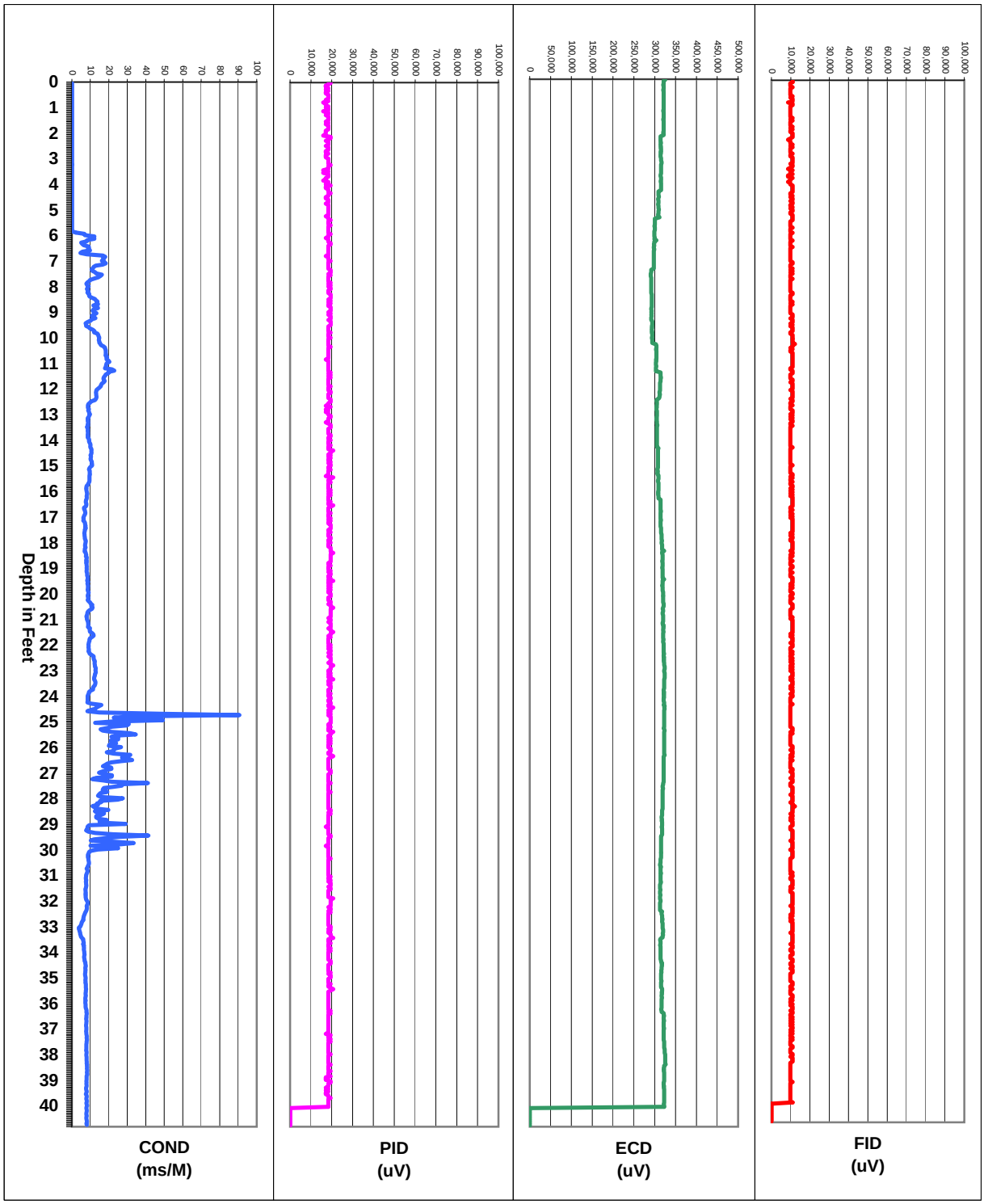
PLF: wbc

cc: Will MacAllister, ZEBRA – Schenectady, NY
cc: Matt Ednie, ZEBRA – Schenectady, NY

ZEBRA MIP Field Book

AECOM	**Cranston, RI**					
Number of Days MIP	**1**	1				
DEPTH for DAY		200				
DATE		7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
DS20415						
Number of locations	**5**	AESB103	AESB108	AESB107	AESB114	AESB127
MIP Unit		gator	gator	gator	gator	gator
Probe #P1	**200**	41	41	39	39	40
Response Test Result		Good	Good	Good	Good	Good
PID MAX		20,757	34,188	20,757	21,978	21,978
ECD MAX		326,007	525,031	344,322	549,450	258,852
FID MAX		12,210	19,536	12,210	25,641	115,995
PID Lamp Percentage		50	50	50	50	50
Mass Flow		40	40	40	40	40
ECD		**Location Notes**	**Location Notes**	**Location Notes**	**Location Notes**	**Location Notes**

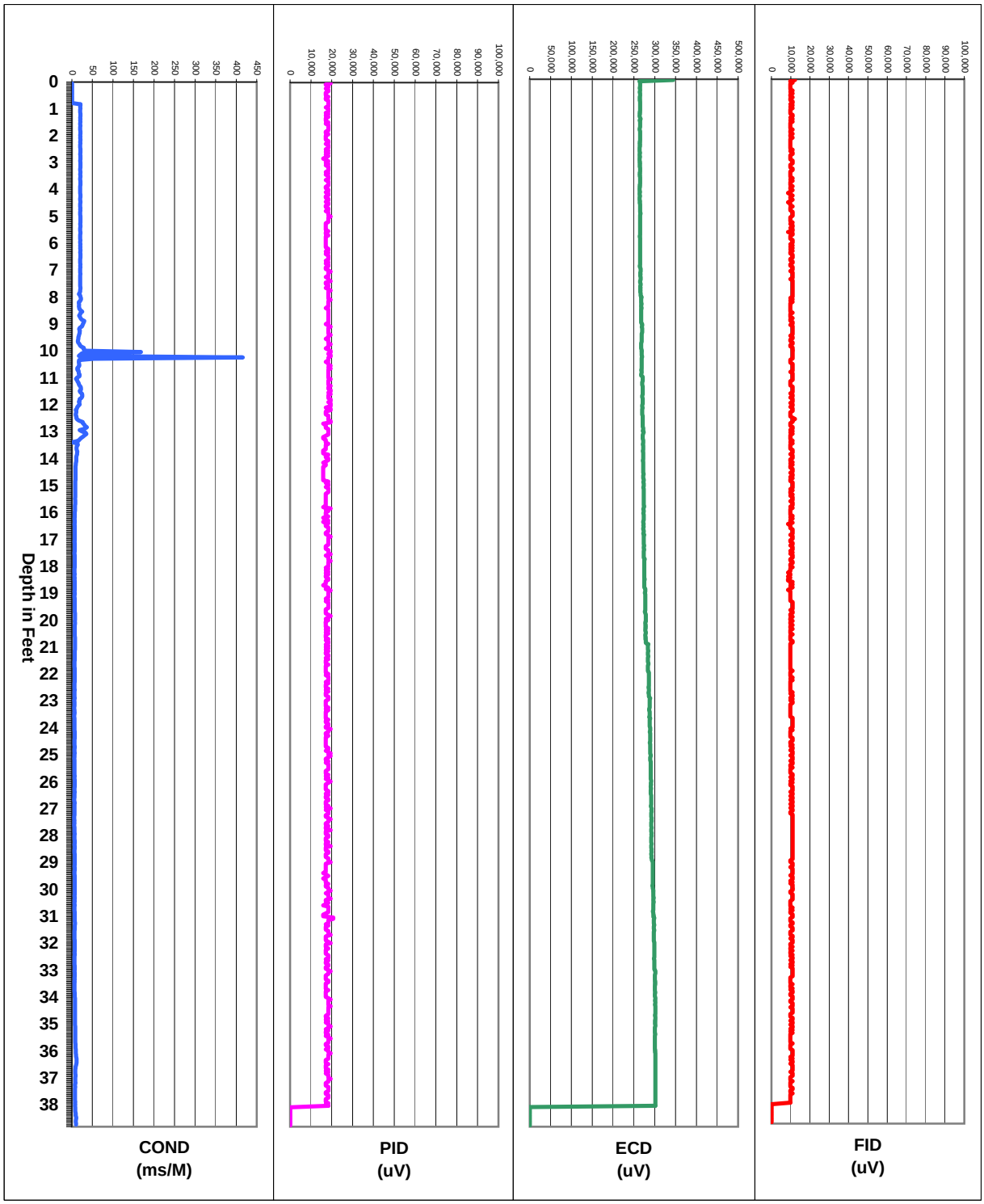
ZEBRA EC/MIP Summary Log, Point AESB103
Cranston, RI



for: AECOM
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 7/24/2012
Proj. Name: Cranston Site
Proj. #: DS20415
Operators: Will M
Point 1 of 0

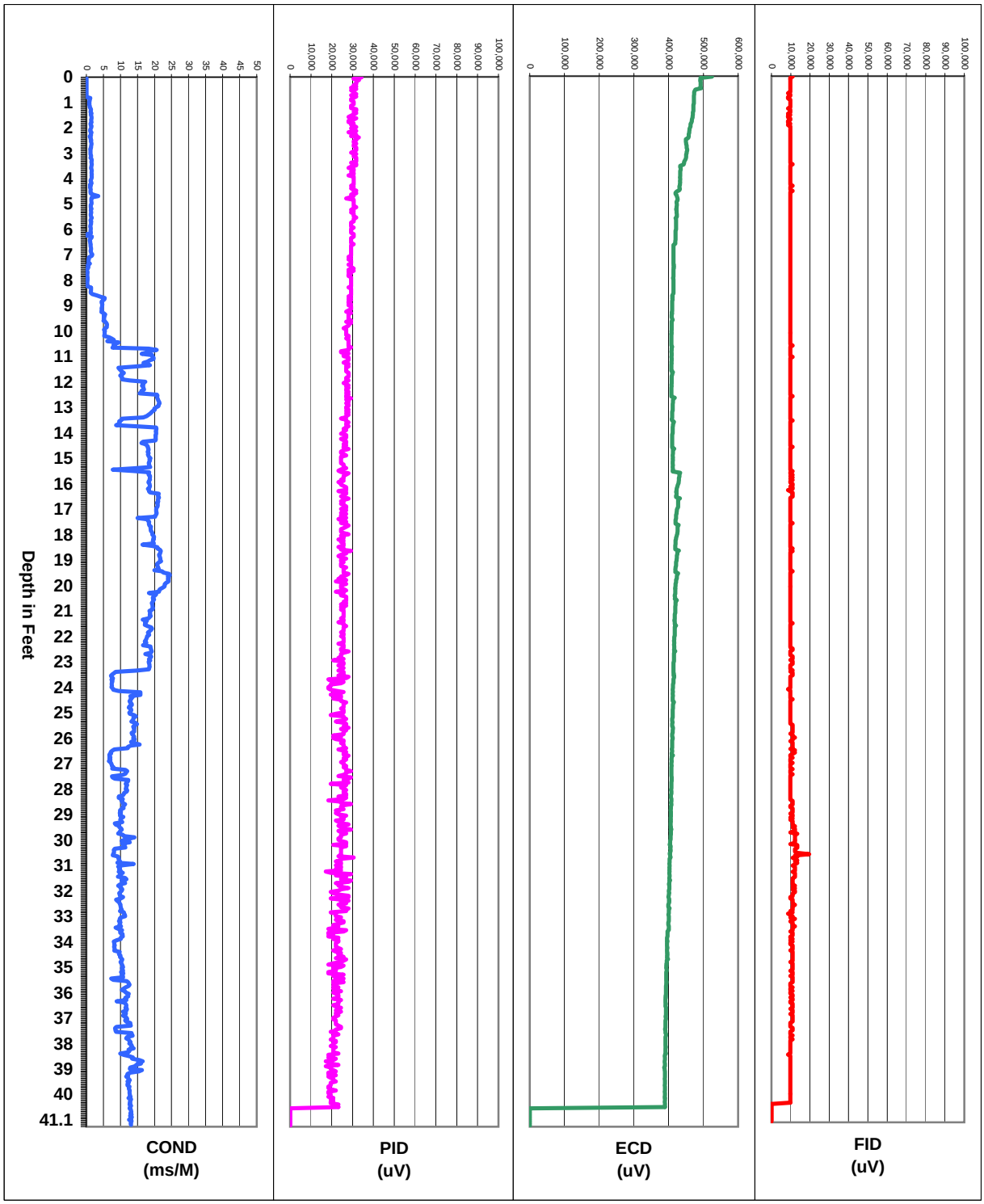
ZEBRA EC/MIP Summary Log, Point AESB107
Cranston, RI



for: AECOM
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 7/24/2012
Proj. Name: Cranston Site
Proj. #: DS20415
Operators: Will M
Point 3 of 0

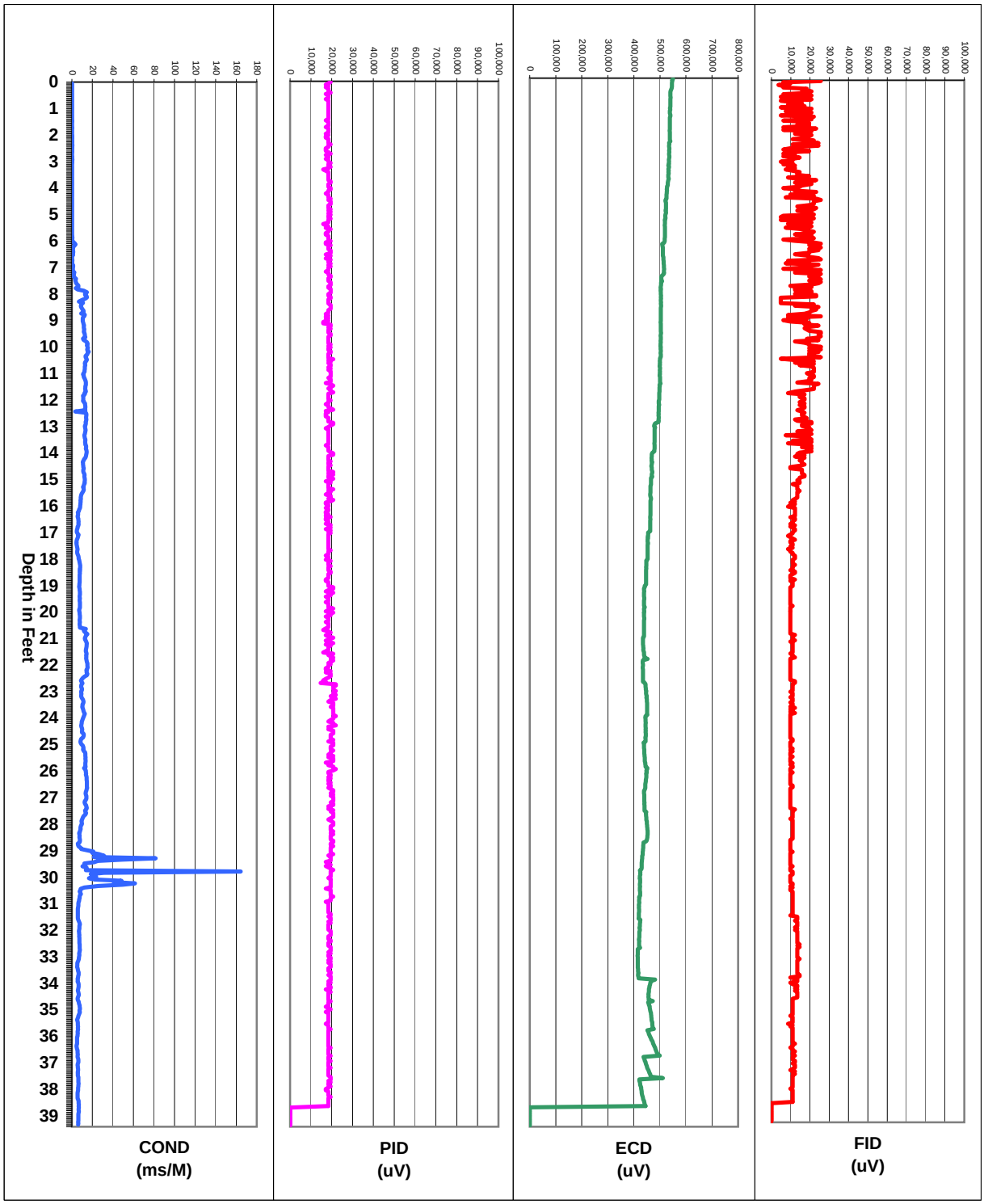
ZEBRA EC/MIP Summary Log, Point AESB108
Cranston, RI



for: AECOM
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 7/24/2012
Proj. Name: Cranston Site
Proj. #: DS20415
Operators: Will M
Point 2 of 0

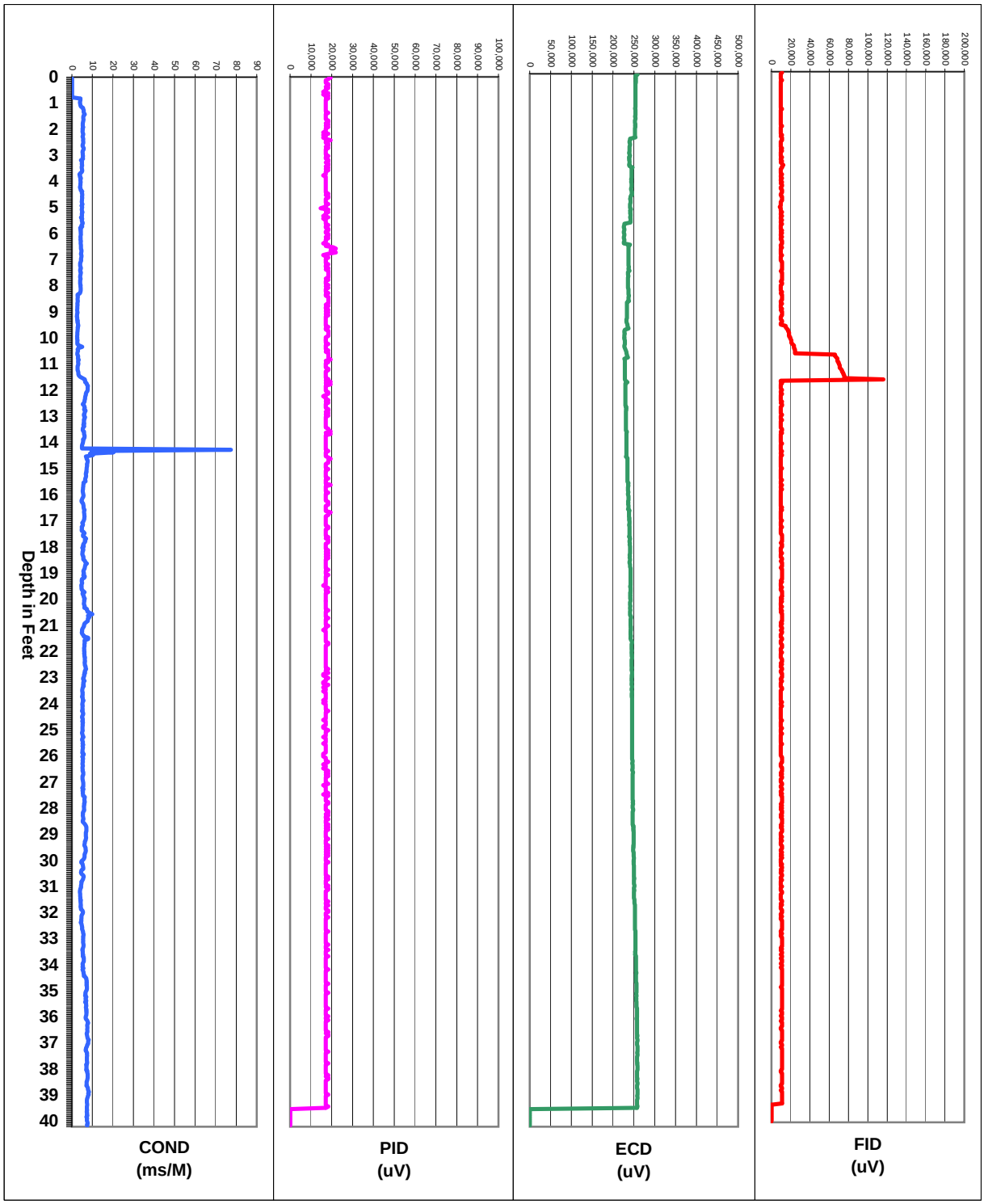
ZEBRA EC/MIP Summary Log, Point AESB114
Cranston, RI



for: AECOM
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 7/24/2012
Proj. Name: Cranston Site
Proj. #: DS20415
Operators: Will M
Point 4 of 0

ZEBRA EC/MIP Summary Log, Point AESB127
Cranston, RI



for: AECOM
by: Zebra Environmental
30 No. Prospect Avenue
Lynbrook, NY 11563
(516) 596-6300

Date: 7/24/2012
Proj. Name: Cranston Site
Proj. #: DS20415
Operators: Will M
Point 5 of 0

Appendix E

Boring Logs

AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-101** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed:
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-101(0-2)_061212-1	0-2	0	SW	Asphalt on top. Brown, well graded SAND, dry, loose, few fine gravel, trace silt, no odor.		
-3- -4-							
-5- -6-	SB-101(4-6)_072612-1	4-6	2.0	SP	Brown, fine to medium SAND, trace gravel, loose, dry, no odor.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

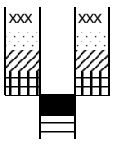
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-102** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed:
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-102(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, some silt and gravel, liitle organic materiel.		
-3- -4-							
-5- -6-	SB-102(4-6)_061512-1	4-6	2.9	SP	Dark brown, medium SAND, some gravel, dry, loose, no odor.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

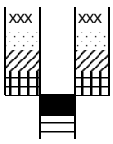
Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Change in Material Type

Change in Deposit Type

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-103** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-103(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, some silt and gravel, liitle organic materiel.		
-2-							
-3-							
-4-							
-5-	SB-103(4-6)_072712-1	4-6	12.8	SP	Brown, medium to coarse SAND, some gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

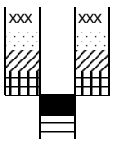
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-104** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist: J. Chambert, C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-104(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, some silt and gravel, liitle organic materiel.		
-2-							
-3-							
-4-							
-5-	SB-104(4-6)_072712-1	4-6	1.3	SP	Dark brown, fine to medium SAND, some gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

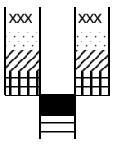
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-105** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-105(0-2)_061512-1	0-2	0.0	OL	0-1' - Dark brown, fine to medium SAND, little silt and gravel, some organic material.		
-2-				SP	1-2' - Grey, medium to coarse SAND, fill material.		
-3-							
-4-							
-5-	SB-105(4-6)_072612-1	4-6	5.7	SP	Dark brown, medium to coarse SAND, asphalt, some gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

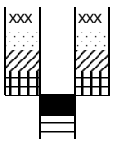
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-106** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed: 07/25/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-106(0-2)_061212-1	0-2	0.0	SW	Asphalt on top. Brown, well graded SAND, dry, loose, few fine gravel, trace silt, no odor..		
-3- -4-							
-5- -6-	SB-106(4-6)_072512-1	4-6	1.9	SP	Brown, fine to medium SAND, some silt and gravel, brick fragments, wet, medium density, no odor.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

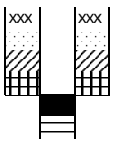
Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Change in Material Type

Change in Deposit Type

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-107** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/24/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-107(0-2)_061512-1	0-2	0.0	SP	Brown, fine to medium SAND, some gravels, cobbles, asphalt pieces, trace silt.		
-2-							
-3-							
-4-							
-5-	SB-107(4-6)_072412-1	4-6	0.0	SP	Brown, fine to medium SAND, some gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

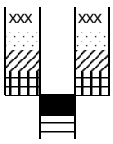
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-108** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/23/12
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-108(0-2)_061512-1	0-2	0.0	SP	Brown, fine to medium SAND, some gravels, cobbles, asphalt pieces, trace silt.		
-3- -4-							
-5- -6-	SB-108(4-6)_072312-1	4-6	0.0	SW	Dark brown, well graded SAND, some silt and gravel, dry, unknown odor, medium density.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

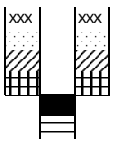
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen

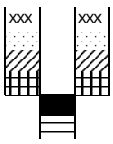


AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-109** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed: 07/23/12
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-109(0-2)_061212-1	0-2	0	SW	Asphalt on top. Brown, well graded SAND, dry, loose, few fine gravel, trace silt, no odor..		
-2-							
-3-							
-4-	SB-109(4-6)_072312-1	4-6	0.0	SP	Brown, fine to medium SAND, trace gravel, dry, no odor, very loose.		
-5-							
-6-					Bottom of boring 6 feet bgs		
-7-							
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used		Penetration Resistance ("Blow Counts")				
Trace	0 to 10%	Cohesionless Density		Cohesive Consistency		Concrete
Little	10 to 20%	0-4	Very Loose	0-2	Very Soft	Silica Sand Pack
Some	20 to 35%	5-9	Loose	3-4	Soft	Native Fill
And	35 to 50%	10-29	Med. Dense	5-8	M/Stiff	Bentonite Seal
		30-49	Dense	9-15	Stiff	Riser
Change in Material Type		50+	Very Dense	16-30	Hard	Screen
Change in Deposit Type				31+	Very Hard	



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-110** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/23/12
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-110(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, silt and gravel.		
-2-							
-3-							
-4-							
-5-	SB-110(4-6)_072312-1	4-6	5.5	SP	Dark brown, fine to medium SAND, trace silt and gravel, dry, loose, slight odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

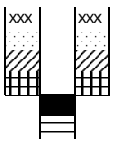
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-111** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/23/12
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist	J. Chambert C.Callahan	Notes: Log Only	
		Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-111(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, silt and gravel.		
-2-							
-3-							
-4-							
-5-	SB-111(4-6)_072312-1	4-6	9.8	SP	Brown, dark brown, fine to medium SAND, trace silt and gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

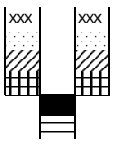
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-112** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/23/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist	J. Chambert C.Callahan	Notes: Log Only	
		Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-112(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, silt and gravel.		
-2-							
-3-							
-4-							
-5-	SB-112(4-6)_072312-1 SB-112(4-6)_072312-2	4-6	0.0	SP	Brown, fine to medium SAND, trace gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

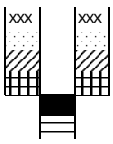
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-113** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/23/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-113(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND and GRAVEL, little silt.		
-2-							
-3-							
-4-							
-5-	SB-113(4-6)_072312-1	4-6	13.2	SP	Brown, fine to medium SAND, trace gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

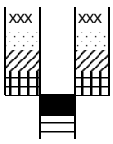
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-114** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/23/12
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-114(0-2)_061512-1	0-2	0.0	SP	Dark brown, fine to medium SAND, silt and gravel.		
-2-							
-3-							
-4-							
-5-	SB-114(4-6)_072312-1	4-6	11.3	SP	Dark brown, grey, fine to medium SAND and PEASTONE, trace silt, dry, loose, slight odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

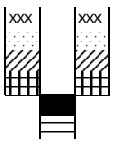
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-115** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed:
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-115(0-2)_061512-1 Duplicate sample collected	0-2	0.0	SP	Dark brown, fine to medium SAND, silt and gravel.		
-3- -4-							
-5- -6-	SB-115(4-6)_061512-1	4-6	0.0	SP	Brown, fine to medium SAND, some gravel, no odor, loose, dry.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen

AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-116** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist: J. Chambert, C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-116(0-2)_061512-1 MS/MSD sample collected	0-2	0.0	SP	Dark brown, fine to medium SAND, silt and gravels. Pipe at 4 inches, direction North-South		
-2-							
-3-							
-4-							
-5-	SB-116(4-6)_072612-1	4-6	0.4	SP	Brown, medium to coarse SAND, black asphalt, dry, loose, no odor.		
-6-							
-7-							
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

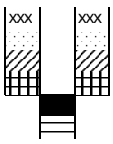
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-117** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-117(0-2)_061212-1	0-2	0.0	SW	Asphalt on top. Brown, well graded SAND, dry, loose, few fine gravel, trace silt, no odor.		
-3- -4-							
-5- -6-	SB-117(4-6)_072612-1	4-6	0.3	SW	Brown, dark brown, well graded SAND, some gravel, moist, medium density, no odor.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

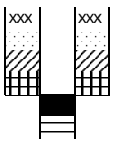
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-118** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed:
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-118(0-2)_061512-1	0-2	0.0	SP	Grey, fine to medium, SAND, some rounded gravel.		
-2-							
-3-							
-4-							
-5-	SB-118(4-6)_061512-1	4-6	0.0	SP	Brown, fine SAND, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

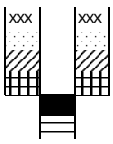
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-119** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed: 07/25/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-119(0-2)_061212-1	0-2	0	SW	Brown, well graded SAND, dry, loose, some fine gravel, trace silt, trace wood fragment, slight naphthalene odor.		
-2-							
-3-							
-4-							
-5-	SB-119(4-6)_072512-1	4-6	0.0	SP	Brown, grey, fine to medium SAND, trace silt, some gravel, moist, slight odor, loose to medium density.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

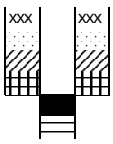
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-120** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/24/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-120(0-2)_061512-1 MS/MSD sample collected	0-2	0.0	SP	Brown, fine to medium SAND, some gravels, cobbles, trace silt.		
-3- -4-							
-5- -6-	SB-120(4-6)_072412-1	4-6	0.9	SM	Brown, grey, fine SAND and SILT, trace gravel, dry, tight, odor.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

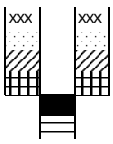
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-121** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed:
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-121(0-2)_061512-1	0-2	0.0	SP	Brown, fine to medium SAND, some gravels, cobbles, trace silt.		
-2-							
-3-							
-4-							
-5-	SB-121(4-6)_061512-1	4-6	0.0	SP	Dark brown, fine to medium SAND, trace silt, gravel, asphalt, dry, medium density, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

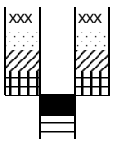
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-122** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/15/2012	Dated Completed: 07/24/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist J. Chambert C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Julien Chambert/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-122(0-2)_061512-1	0-2	140	SP	Grey, medium to coarse SAND, some gravels.		
-2-							
-3-							
-4-							
-5-	SB-122(4-6)_072412-1	4-6	0.0	SP	Brown, fine to medium SAND, brick fragments, gravel, concrete, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

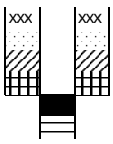
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-123** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/27/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-123(0-2)_072712-1	0-2	12.8	SP	Light brown, medium to coarse SAND, trace gravel, dry, loose, no odor.		
-2-							
-3-							
-4-							
-5-	SB-123(4-6)_072712-1	4-6	8.8	SP	Brown, medium to coarse SAND, some gravel, concrete, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

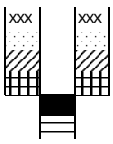
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-124** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/27/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Hand Auger / Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-124(0-2)_072712-1	0-2	2.0	SW	Light brown, well graded SAND, trace gravel, dry, loose, no odor.		
-2-							
-3-							
-4-							
-5-	SB-124(4-6)_072712-1	4-6	3.2	SP	Brown, fine to medium SAND, some gravel, concrete, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

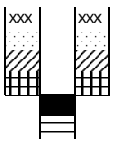
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-125** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed: 07/25/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-125(0-2)_061212-1	0-2	0	SW	Asphalt on top. Brown, well graded SAND, dry, loose, few fine gravel, trace silt, no odor.		
-3- -4-							
-5- -6-	SB-125(4-6)_072512-1	4-6	0.0	SP	Brown, medium to coarse SAND, black coarse sand , dry, loose, no odor.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

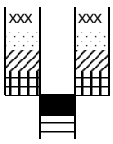
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-126** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 06/12/2012	Dated Completed: 07/25/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist: T. Croft C.Callahan	Notes: Log Only	Driller's Name:	Rodney and Derrick
		AECOM Representative:	Tom Croft/Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1- -2-	SB-126(0-2)_061212-1	0-2	0	SW	Asphalt on top. Brown, well graded SAND, dry, loose, few fine gravel, trace silt, no odor.		
-3- -4-							
-5- -6-	SB-126(4-6)_072512-1	4-6	0.0	SP	Brown, medium to coarse SAND, black coarse sand, dry, no odor, loose.		
-7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-					Bottom of boring 6 feet bgs		

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

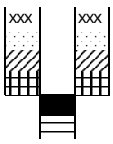
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-127** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/23/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-127(0-2)_072412-1	0-2	4.5	SW	Brown, well graded SAND, some gravel, dry, no odor, loose.		
-2-							
-3-							
-4-							
-5-	SB-127(4-6)_072312-1	4-6	0.0	SW	Same as above. Recovery: 24/24		
-6-							
-7-							
-8-							
-9-							
-10-							
-11-	SB-127(10-12)_072612-1	10-12	0.0	SW	Light brown, well graded SAND, dry, loose, no odor. Recovery: 24/24		
-12-							
-13-					Bottom of boring 12 feet bgs		
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

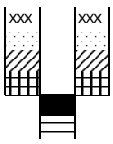
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-128** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/25/2012	Dated Completed: 07/25/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-128(0-2)_072512-1	0-2	3.4	SP	Brown, fine SAND, some gravel, dry, loose, no odor.		
-2-							
-3-							
-4-							
-5-	SB-128(4-6)_072512-1	4-6	23.7	SP	Brown, fine to medium SAND, little gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

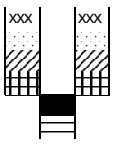
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-129** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/25/2012	Dated Completed: 07/25/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-1-	SB-129(0-2)_072512-1	0-2	0.0	SP	Brown, fine to medium SAND, trace silt, some gravel, dry, loose, no odor.		
-2-							
-3-							
-4-							
-5-	SB-129(4-6)_072512-1	4-6	0.0	SW	Brown, fine to coarse SAND, trace silt, some gravel, dry, loose, no odor.		
-6-							
-7-					Bottom of boring 6 feet bgs		
-8-							
-9-							
-10-							
-11-							
-12-							
-13-							
-14-							
-15-							
-16-							
-17-							
-18-							
-19-							
-20-							

Notes:

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

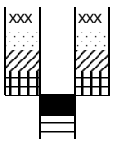
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-131** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/27/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-20-	SB-13(19-21)_072712-1	19-21	4.5	SM	Grey, fine to coarse SAND and SILT, medium density, wet,unknown odor. Recovery: 24/17		
-21-							
-22-					Bottom of boring 21 feet bgs		
-23-							
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

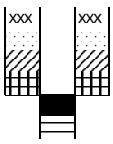
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-131** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/26/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-20-	SB-131(19-21)_072512-1	19-21	59.9	SM	Grey, fine SAND and SILT, tight, moist, unknown odor. Recovery: 24/12		
-21-							
-22-					Bottom of boring 21 feet bgs		
-23-							
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Change in Material Type

Change in Deposit Type

Concrete

Silica Sand Pack

Native Fill

Bentonite Seal

Riser

Screen

AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-132** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/26/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-21-	SB-132(20-22)_072512-1	20-22	59.9	SM	Grey, fine SAND and SILT, tight, moist, solvent odor. Recovery: 24/12		
-22-							
-23-					Bottom of boring 22 feet bgs		
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							
-40-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen

AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-133** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/26/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-20-	SB-133(19-21)_072512-1	19-21	67.0	SM	Grey, fine SAND and SILT, tight, moist, solvent odor.		
-21-							
-22-					Bottom of boring 21 feet bgs		
-23-							
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

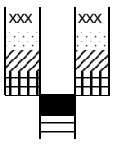
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-134** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/26/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-21-	SB-134(20-22)_072512-1	20-22	9.0	SM	Grey, fine SAND and SILT, tight, moist, solvent odor. Recovery: 24/12		
-22-							
-23-					Bottom of boring 22 feet bgs		
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							
-40-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

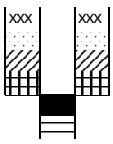
Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Change in Material Type

Change in Deposit Type

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-135** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/26/2012	Dated Completed: 07/26/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-21- -22-	SB-135(20-22)_0727712-1 MS/MSD sample collected	20-22	1.5	SM	Grey, fine SAND and SILT, tight, moist, solvent odor. Recovery: 24/20		
-23-					Bottom of boring 22 feet bgs		
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							
-40-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

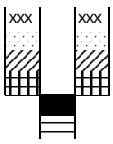
Change in Material Type

Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-136** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/27/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-21- -22-	SB-136(20-22)_0727712-1 SB-136(20-22)_0727712-2	20-22	3.3	SM	Grey, fine SAND and SILT, tight, moist, solvent odor. Recovery: 24/21		
-23-					Bottom of boring 22 feet bgs		
-24-							
-25-							
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							
-40-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

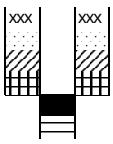
Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

Change in Material Type
Change in Deposit Type

Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



AECOM		Project: BASF 180 Mill Street Cranston, Rhode Island	Boring No.: **SB-137** Sheet 1 of 1
Boring Location:	See site plan	Project Manager: Joanne Lynch	Project Number: 60163799
Ground Elevation:	NA	Dated Started: 07/27/2012	Dated Completed: 07/27/2012
Depth to Water:	NA	Drill Type:	Geoprobe
		Drill Rig and Model Number:	Geoprobe
		Drilling Company:	Geosearch
Geologist C.Callahan	Notes: Log Only	Driller's Name:	
		AECOM Representative:	Colin Callahan
		Owner/Client Rep.:	BASF

Depth (feet)	Sample I.D.	Sample Depth (feet bgs)	PID (ppm/v)	USCS Class.	Description of Sample	Well Construction	Depth (feet)
-21-							
-22-							
-23-	SB-137(20-22)_0727712-1	22-24	4.0	SM	Grey, fine SAND and SILT, tight, moist, solvent odor. Recovery: 24/19		
-24-							
-25-					Bottom of boring 24 ft bgs		
-26-							
-27-							
-28-							
-29-							
-30-							
-31-							
-32-							
-33-							
-34-							
-35-							
-36-							
-37-							
-38-							
-39-							
-40-							

Notes: No sample collected from 0 to 20 feet bgs.

roportions Used

Trace	0 to 10%
Little	10 to 20%
Some	20 to 35%
And	35 to 50%

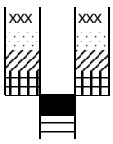
Penetration Resistance ("Blow Counts")

Cohesionless Density		Cohesive Consistency	
0-4	Very Loose	0-2	Very Soft
5-9	Loose	3-4	Soft
10-29	Med. Dense	5-8	M/Stiff
30-49	Dense	9-15	Stiff
50+	Very Dense	16-30	Hard
		31+	Very Hard

Change in Material Type

Change in Deposit Type

Concrete
Silica Sand Pack
Native Fill
Bentonite Seal
Riser
Screen



Appendix F

Supporting Materials for 2013/2014 Investigation Activities

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	MP-3I	MP-3S	MW-002S	MW-021S	MW-029D	MW-031D	MW-031S	MW-034D	MW-102D	NP-GW01	NP-GW01
					Sample Date	7/24/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/25/2013	7/25/2013	7/24/2013	7/24/2013	1/8/2014	1/8/2014
					sample_type_code	N	N	FD	N	N	N	N	N	N	N	FD
					Depth Interval	18 - 22 ft	5 - 13 ft	8 - 18 ft	6 - 16 ft	34 - 44 ft	36 - 46 ft		38 - 48 ft	20 - 25 ft	7 - 17 ft	7 - 17 ft
					Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**											
353.2	NITRATE				mg/l	< 0.030 U	< 0.030 U	NA	0.189	NA	NA	NA	0.671	< 0.030 U	NA	NA
AM20GAX	METHANE				ug/l	1700	2000	NA	22	NA	NA	NA	8.1	1500	NA	NA
CENSUS	Benzyl Succinate Synthase				Cells/ml	693	NA	NA	NA	NA	NA	NA	20800	1080	NA	NA
CENSUS	biphenyl Dioxygenase				Cells/ml	11700	NA	NA	NA	NA	NA	NA	45600	54800	NA	NA
CENSUS	Denitrifying bacteria (K)				Cells/ml	305000	NA	NA	NA	NA	NA	NA	912000	1770000	NA	NA
CENSUS	Denitrifying bacteria (S)				Cells/ml	59500	NA	NA	NA	NA	NA	NA	390000	702000	NA	NA
CENSUS	Methanogen				Cells/ml	3.20	NA	NA	NA	NA	NA	NA	< 0.900 U	116	NA	NA
CENSUS	Phenol Hydrolase				Cells/ml	10.3	NA	NA	NA	NA	NA	NA	2040	65.5	NA	NA
CENSUS	Sulfate Reducing Bacteria				Cells/ml	3260	NA	NA	NA	NA	NA	NA	152	3400	NA	NA
CENSUS	Toluene Dioxygenase				Cells/ml	< 0.900 U	NA	NA	NA	NA	NA	NA	< 0.900 U	< 0.900 U	NA	NA
CENSUS	Toluene Monooxygenase				Cells/ml	< 0.900 U	NA	NA	NA	NA	NA	NA	80.9	< 0.900 U	NA	NA
CENSUS	Total Eubacteria				Cells/ml	48400	NA	NA	NA	NA	NA	NA	47200	1390000	NA	NA
CENSUS	Trichlorobenzene Dehalogenase				Cells/ml	3830	NA	NA	NA	NA	NA	NA	< 0.900 U	2020	NA	NA
CENSUS	Xylene Monoxygenase				Cells/ml	566	NA	NA	NA	NA	NA	NA	1910	86500	NA	NA
HACH	Ferrous Iron				ug/l	5940 D	9130 D	NA	586	NA	NA	NA	< 50 U	1980 D	NA	NA
SW6010	IRON				mg/l	8.69	6.02	NA		NA	NA	NA	0.916	3.28	NA	NA
SW8082	AROCLOR-1016			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1221			0.005	mg/l	0.00904 D	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	0.00019	< 0.00009 U	NA	NA
SW8082	AROCLOR-1232			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1242			0.005	mg/l	< 0.00009 U	0.0141 D	0.00046	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1248			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1254			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	0.00027	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1260			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1262			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8082	AROCLOR-1268			0.005	mg/l	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	< 0.00009 U	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	1,1,1-TRICHLOROETHANE (TCA)		3.1		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,2,2-TETRACHLOROETHANE				mg/l	< 0.0500 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0500 U	< 0.0005 U	< 0.0005 U
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0010 U	< 0.0010 U
SW8260B	1,1,2-TRICHLOROETHANE		3.1		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHENE		0.007		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROPROPENE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	NA	NA
SW8260B	1,2,3-TRICHLOROBENZENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,3-TRICHLOROPROPANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	1,2,4-TRICHLOROBENZENE				mg/l	< 0.100 U	0.0025	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRIMETHYLBENZENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)		0.002		mg/l	< 0.500 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.500 U	< 0.0050 U	< 0.0050 U
SW8260B	1,2-DIBROMOETHANE (EDB)				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROBENZENE	**0.094**			mg/l	**30.7 D**	**1.48 D**	0.0024	< 0.0010 U	< 0.0010 U	0.0226	< 0.0010 U	0.0014	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROETHANE		0.11		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROPROPANE		3		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3,5-TRIMETHYLBENZENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	1,3-DICHLOROBENZENE				mg/l	< 0.100 U	0.0125	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROPROPANE		3		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	1,4-DICHLOROBENZENE				mg/l	0.274 D	0.0115	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-Dioxane				mg/l	< 50.0 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 50.0 U	< 0.500 U	< 0.500 U
SW8260B	1-Chlorohexane				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	2,2-DICHLOROPROPANE		3		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	2-BUTANONE (MEK)				mg/l	< 1.00 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 1.00 U	< 0.0100 U	< 0.0100 U
SW8260B	2-CHLOROTOLUENE	**1.5**			mg/l	**3.18 D**	0.0022	0.0026	< 0.0010 U	< 0.0010 U	0.0568	< 0.0010 U	0.0309	**31.9 D**	< 0.0010 U	< 0.0010 U
SW8260B	2-HEXANONE				mg/l	< 1.00 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 1.00 U	< 0.0100 U	< 0.0100 U
SW8260B	2-PHENYLBUTANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	4-CHLOROTOLUENE				mg/l	0.126 D	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	2.08 D	NA	NA
SW8260B	4-METHYL-2-PENTANONE (MIBK)				mg/l	< 2.50 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 2.50 U	< 0.0250 U	< 0.0250 U
SW8260B	ACETONE				mg/l	< 1.00 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 1.00 U	< 0.0100 U	< 0.0100 U
SW8260B	BENZENE		0.14		mg/l	< 0.100 U	0.0121	0.0105	< 0.0010 U	< 0.0010 U	0.0072	0.0058	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	BROMOBENZENE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	NA	NA
SW8260B	BROMODICHLOROMETHANE				mg/l	< 0.0600 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0600 U	< 0.0006 U	< 0.0006 U
SW8260B	BROMOFORM				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	BROMOMETHANE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	CARBON DISULFIDE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CARBON TETRACHLORIDE		0.07		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROBENZENE	**1.7**	**3.2**		mg/l	**9.55 D**	1.58 D	0.502 D	< 0.0010 U	< 0.0010 U	0.0903	0.0345	0.0028	**4.82 D**	< 0.0010 U	< 0.0010 U

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	MP-3I	MP-3S	MW-002S	MW-021S	MW-029D	MW-031D	MW-031S	MW-034D	MW-102D	NP-GW01	NP-GW01
					Sample Date	7/24/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/25/2013	7/25/2013	7/24/2013	7/24/2013	1/8/2014	1/8/2014
					sample_type_code	N	N	FD	N	N	N	N	N	N	N	FD
					Depth Interval	18 - 22 ft	5 - 13 ft	8 - 18 ft	6 - 16 ft	34 - 44 ft	36 - 46 ft		38 - 48 ft	20 - 25 ft	7 - 17 ft	7 - 17 ft
					Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**											
SW8260B	CHLOROBROMOMETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROETHANE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	CHLOROFORM				mg/l	< 0.100 U	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROMETHANE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	CIS-1,2-DICHLOROETHENE		2.4		mg/l	< 0.100 U	0.637 D	0.0276	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CIS-1,3-DICHLOROPROPENE				mg/l	< 0.0400 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0400 U	< 0.0004 U	< 0.0004 U
SW8260B	CYCLOHEXANE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U
SW8260B	CYMENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	DIBROMOCHLOROMETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOMETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	DICHLORODIFLUOROMETHANE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	Diethyl ether				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	DIISOPROPYL ETHER				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	ETHYLBENZENE		1.6		mg/l	< 0.100 U	0.0096	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.161 D	< 0.0010 U	< 0.0010 U
SW8260B	Ethyltertiarybutylether				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	HEXACHLORO-1,3-BUTADIENE				mg/l	< 0.0600 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0600 U	NA	NA
SW8260B	HEXACHLOROETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	ISOPROPYLBENZENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYL ACETATE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0050 U	< 0.0050 U
SW8260B	METHYL TERT-BUTYL ETHER		5		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYLCYCLOHEXANE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0010 U	< 0.0010 U
SW8260B	METHYLENE CHLORIDE				mg/l	< 0.200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	m-Xylene & p-Xylene				mg/l	< 0.200 U	0.0035	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	0.523 D	< 0.0020 U	< 0.0020 U
SW8260B	NAPHTHALENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	N-BUTYLBENZENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	N-PROPYLBENZENE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	O-XYLENE				mg/l	< 0.100 U	0.0057	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0025	< 0.0010 U	< 0.0010 U	0.156 D	< 0.0010 U	< 0.0010 U
SW8260B	STYRENE		2.2		mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	tert-Butylbenzene				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	tertiaryAmylmethylether				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	NA	NA
SW8260B	TETRACHLOROETHENE (PCE)		**0.15**		mg/l	0.141 D	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRAHYDROFURAN				mg/l	< 0.500 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.500 U	NA	NA
SW8260B	TOLUENE	**1.7**	**1.7**		mg/l	0.105 D	0.0164	0.0160	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	**13.4 D**	< 0.0010 U	< 0.0010 U
SW8260B	TRANS-1,2-DICHLOROETHENE		2.8		mg/l	< 0.100 U	0.0215	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TRANS-1,3-DICHLOROPROPENE				mg/l	< 0.0400 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0400 U	< 0.0004 U	< 0.0004 U
SW8260B	TRICHLOROETHYLENE		0.54		mg/l	< 0.100 U	0.0026	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TRICHLOROFLUOROMETHANE				mg/l	< 0.100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	VINYL ACETATE				mg/l	< 0.500 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.500 U	NA	NA
SW8260B	VINYL CHLORIDE		**0.002**		mg/l	< 0.100 U	**0.351 D**	**0.0373**	< 0.0010 U	< 0.0010 U	**0.0036**	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW9056	SULFATE AS SO4				mg/l	11	10	NA	1.8	NA	NA	NA	13	6.3	NA	NA
TOC.LK	TOTAL ORGANIC CARBON				mg/l	7.6	5.9	NA	3.8	NA	NA	NA	< 1.0 U	5.9	NA	NA

Notes:
U = not detected above detection limits
D = Dilution
< indicates not detected above detection limits
Indicates exceedance of RIDEM GB Groundwater Criteria
Indicates exceedance of Site-specific Media Protection Standards
Indicates exceedance of Maximum Contaminant Level

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	NP-GW02	P-030D	P-035S	WPT-01	WPT-01	WPT-01	WPT-02	WPT-02	WPT-02	WPT-03	WPT-03
					Sample Date	1/8/2014	7/26/2013	7/25/2013	7/22/2013	7/22/2013	7/22/2013	7/22/2013	7/22/2013	7/22/2013	7/23/2013	7/23/2013
					sample_type_code	N	N	N	N	N	N	N	N	N	N	N
					Depth Interval	7 - 17 ft	35 - 38 ft	10 - 15 ft	24.5 ft	30.2 ft	40.5 ft	16.6 ft	23.2 ft	29.1 ft	25.2 ft	36.8 ft
					Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**											
353.2	NITRATE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AM20GAX	METHANE				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Benzyl Succinate Synthase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	biphenyl Dioxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Denitrifying bacteria (K)				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Denitrifying bacteria (S)				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Methanogen				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Phenol Hydrolase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Sulfate Reducing Bacteria				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Toluene Dioxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Toluene Monooxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Total Eubacteria				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Trichlorobenzene Dehalogenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Xylene Monoxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HACH	Ferrous Iron				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	IRON				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1016			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1221			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1232			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1242			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1248			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1254			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1260			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1262			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1268			0.005	mg/l	NA	< 0.00009 U	< 0.00009 U	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,1-TRICHLOROETHANE (TCA)		3.1		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,2,2-TETRACHLOROETHANE				mg/l	< 0.0005 U	< 0.0005 U	< 0.0050 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE				mg/l	< 0.0010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,2-TRICHLOROETHANE		3.1		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	0.0011	< 0.0010 U	0.0014	< 0.0010 U	0.0012	< 0.0010 U	0.0017	< 0.0010 U
SW8260B	1,1-DICHLOROETHENE		0.007		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROPROPENE				mg/l	NA	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	1,2,3-TRICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,3-TRICHLOROPROPANE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRIMETHYLBENZENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)		0.002		mg/l	< 0.0050 U	< 0.0050 U	< 0.0500 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	1,2-DIBROMOETHANE (EDB)				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROBENZENE	**0.094**			mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0177	< 0.0010 U	< 0.0010 U	0.0013	< 0.0010 U
SW8260B	1,2-DICHLOROETHANE		0.11		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3,5-TRIMETHYLBENZENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROPROPANE		3		mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-DICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0025	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-Dioxane				mg/l	< 0.500 U	< 0.500 U	< 5.00 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
SW8260B	1-Chlorohexane				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	2,2-DICHLOROPROPANE		3		mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	2-BUTANONE (MEK)				mg/l	< 0.0100 U	< 0.0100 U	< 0.100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	2-CHLOROTOLUENE	**1.5**			mg/l	< 0.0010 U	< 0.0010 U	0.0290 D	0.0019	0.0999	< 0.0010 U	0.588 D	0.0029	< 0.0010 U	< 0.0010 U	0.0034
SW8260B	2-HEXANONE				mg/l	< 0.0100 U	< 0.0100 U	< 0.100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	2-PHENYLBUTANE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	4-CHLOROTOLUENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0096	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	4-METHYL-2-PENTANONE (MIBK)				mg/l	< 0.0250 U	< 0.0250 U	< 0.250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U
SW8260B	ACETONE				mg/l	< 0.0100 U	< 0.0100 U	< 0.100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	BENZENE		0.14		mg/l	< 0.0010 U	< 0.0010 U	0.0473 D	0.0306	0.0054	< 0.0010 U	0.0013	0.0056	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	BROMOBENZENE				mg/l	NA	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	BROMODICHLOROMETHANE				mg/l	< 0.0006 U	< 0.0006 U	< 0.0060 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	BROMOFORM				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	BROMOMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	CARBON DISULFIDE				mg/l	< 0.0010 U	0.0041	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0029	0.0022	0.0011	< 0.0010 U	< 0.0010 U
SW8260B	CARBON TETRACHLORIDE		0.07		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROBENZENE	**1.7**	**3.2**		mg/l	< 0.0010 U	< 0.0010 U	**2.02 D**	0.139 D	0.158 D	< 0.0010 U	**2.26 D**	0.0103	0.0022	0.0036	0.0016

Draft Table F-1
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	NP-GW02	P-030D	P-035S	WPT-01	WPT-01	WPT-01	WPT-02	WPT-02	WPT-02	WPT-03	WPT-03
					Sample Date	1/8/2014	7/26/2013	7/25/2013	7/22/2013	7/22/2013	7/22/2013	7/22/2013	7/22/2013	7/22/2013	7/23/2013	7/23/2013
					sample_type_code	N	N	N	N	N	N	N	N	N	N	N
					Depth Interval	7 - 17 ft	35 - 38 ft	10 - 15 ft	24.5 ft	30.2 ft	40.5 ft	16.6 ft	23.2 ft	29.1 ft	25.2 ft	36.8 ft
					Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**											
SW8260B	CHLOROBROMOMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	0.0028	< 0.0020 U
SW8260B	CHLOROFORM				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	CIS-1,2-DICHLOROETHENE		2.4		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CIS-1,3-DICHLOROPROPENE				mg/l	< 0.0004 U	< 0.0004 U	< 0.0040 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	CYCLOHEXANE				mg/l	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	CYMENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOCHLOROMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOMETHANE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DICHLORODIFLUOROMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	Diethyl ether				mg/l	NA	< 0.0010 U	< 0.0100 U	0.0129	0.0011	< 0.0010 U	< 0.0010 U	0.0102	0.0019	0.0058	< 0.0010 U
SW8260B	DIISOPROPYL ETHER				mg/l	NA	< 0.0010 U	< 0.0100 U	0.0028	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0025	0.0019	0.0018	< 0.0010 U
SW8260B	ETHYLBENZENE		1.6		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	Ethyltertiarybutylether				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	HEXACHLORO-1,3-BUTADIENE				mg/l	NA	< 0.0006 U	< 0.0060 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	HEXACHLOROETHANE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	ISOPROPYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYL ACETATE				mg/l	< 0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	METHYL TERT-BUTYL ETHER		5		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYLCYCLOHEXANE				mg/l	< 0.0010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	METHYLENE CHLORIDE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	m-Xylene & p-Xylene				mg/l	< 0.0020 U	< 0.0020 U	< 0.0200 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	NAPHTHALENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	N-BUTYLBENZENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	N-PROPYLBENZENE				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	O-XYLENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	0.0035	< 0.0010 U	0.0114	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	STYRENE		2.2		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	tert-Butylbenzene				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	tertiaryAmylmethylether				mg/l	NA	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRACHLOROETHENE (PCE)		**0.15**		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRAHYDROFURAN				mg/l	NA	< 0.0050 U	< 0.0500 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	TOLUENE	**1.7**	**1.7**		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0011	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TRANS-1,2-DICHLOROETHENE		2.8		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TRANS-1,3-DICHLOROPROPENE				mg/l	< 0.0004 U	< 0.0004 U	< 0.0040 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	TRICHLOROETHYLENE		0.54		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TRICHLOROFLUOROMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	VINYL ACETATE				mg/l	NA	< 0.0050 U	< 0.0500 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	VINYL CHLORIDE		**0.002**		mg/l	< 0.0010 U	< 0.0010 U	< 0.0100 U	< 0.0010 U	**0.0056**	**0.0418**	< 0.0010 U	< 0.0010 U	**0.0823**	< 0.0010 U	**0.0094**
SW9056	SULFATE AS SO4				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC.LK	TOTAL ORGANIC CARBON				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
U = not detected above detection limits
D = Dilution
< indicates not detected above detection limits
Indicates exceedance of RIDEM GB Groundwater Criteria
Indicates exceedance of Site-specific Media Protection Standards
Indicates exceedance of Maximum Contaminant Level

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	WPT-03	WPT-04	WPT-04	WPT-04	WPT-05	WPT-05	WPT-05	WPT-05	WPT-06	WPT-06	WPT-06
					Sample Date	7/23/2013	7/23/2013	7/23/2013	7/23/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013
					sample_type_code	N	N	N	N	N	N	N	N	N	N	N
					Depth Interval	43.8 ft	25.4 ft	33.5 ft	45.4 ft	26 ft	35.9 ft	41.4 ft	47.4 ft	15.2 ft	33.2 ft	43.2 ft
					Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**											
353.2	NITRATE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AM20GAX	METHANE				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Benzyl Succinate Synthase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	biphenyl Dioxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Denitrifying bacteria (K)				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Denitrifying bacteria (S)				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Methanogen				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Phenol Hydrolase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Sulfate Reducing Bacteria				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Toluene Dioxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Toluene Monooxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Total Eubacteria				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Trichlorobenzene Dehalogenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CENSUS	Xylene Monoxygenase				Cells/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HACH	Ferrous Iron				ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW6010	IRON				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1016			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1221			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1232			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1242			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1248			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1254			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1260			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1262			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8082	AROCLOR-1268			0.005	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,1-TRICHLOROETHANE (TCA)		3.1		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,2,2-TETRACHLOROETHANE				mg/l	< 0.0005 U	< 0.0005 U	< 0.0005 U		< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0500 U	< 0.0005 U	< 0.0005 U
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	1,1,2-TRICHLOROETHANE		3.1		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHENE		0.007		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROPROPENE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	1,2,3-TRICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,3-TRICHLOROPROPANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRICHLOROBENZENE				mg/l	< 0.0010 U	0.0068	0.0042	0.0025	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRIMETHYLBENZENE				mg/l	< 0.0010 U	0.0013	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)		0.002		mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.500 U	< 0.0050 U	< 0.0050 U
SW8260B	1,2-DIBROMOETHANE (EDB)				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROBENZENE	**0.094**			mg/l	< 0.0010 U	**4.48 D**	**1.73 D**	**0.906 D**	0.0015	0.0078	< 0.0010 U	< 0.0010 U	**0.225 D**	0.0079	< 0.0010 U
SW8260B	1,2-DICHLOROETHANE		0.11		mg/l	< 0.0010 U	0.0016	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3,5-TRIMETHYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROBENZENE				mg/l	< 0.0010 U	0.0010	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-DICHLOROBENZENE				mg/l	< 0.0010 U	0.0332	0.0135	0.0067	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-Dioxane				mg/l	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 50.0 U	< 0.500 U	< 0.500 U
SW8260B	1-Chlorohexane				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	2,2-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	2-BUTANONE (MEK)				mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U		< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 1.00 U	< 0.0100 U	< 0.0100 U
SW8260B	2-CHLOROTOLUENE	**1.5**			mg/l	< 0.0010 U	0.0085	0.0033	0.0019	< 0.0010 U	0.0156	< 0.0010 U	< 0.0010 U	0.243 D	0.0147	< 0.0010 U
SW8260B	2-HEXANONE				mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U		< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 1.00 U	< 0.0100 U	< 0.0100 U
SW8260B	2-PHENYLBUTANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	4-CHLOROTOLUENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	4-METHYL-2-PENTANONE (MIBK)				mg/l	< 0.0250 U	< 0.0250 U	< 0.0250 U		< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 2.50 U	< 0.0250 U	< 0.0250 U
SW8260B	ACETONE				mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U		< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 1.00 U	< 0.0100 U	< 0.0100 U
SW8260B	BENZENE		0.14		mg/l	< 0.0010 U	0.0075	< 0.0010 U		0.0377	0.0074	< 0.0010 U	< 0.0010 U	< 0.100 U	0.0043	< 0.0010 U
SW8260B	BROMOBENZENE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U		< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	BROMODICHLOROMETHANE				mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U		< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0600 U	< 0.0006 U	< 0.0006 U
SW8260B	BROMOFORM				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	BROMOMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U		< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	CARBON DISULFIDE				mg/l	< 0.0010 U	0.0050	0.0038		0.0013	0.0015	< 0.0010 U	< 0.0010 U	< 0.100 U	0.0010	0.0015
SW8260B	CARBON TETRACHLORIDE		0.07		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROBENZENE	**1.7**	**3.2**		mg/l	< 0.0010 U	0.682 D	0.186 D	0.0742	0.902 D	0.0486	0.0016	0.0045	**14.0 D**	0.0422	0.0032

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	WPT-03	WPT-04	WPT-04	WPT-04	WPT-05	WPT-05	WPT-05	WPT-05	WPT-06	WPT-06	WPT-06
					Sample Date	7/23/2013	7/23/2013	7/23/2013	7/23/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013	7/24/2013
					sample_type_code	N	N	N	N	N	N	N	N	N	N	N
					Depth Interval	43.8 ft	25.4 ft	33.5 ft	45.4 ft	26 ft	35.9 ft	41.4 ft	47.4 ft	15.2 ft	33.2 ft	43.2 ft
					Matrix	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**											
SW8260B	CHLOROBROMOMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U		< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	CHLOROFORM				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	CIS-1,2-DICHLOROETHENE		2.4		mg/l	< 0.0010 U	0.0366	0.0033	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	CIS-1,3-DICHLOROPROPENE				mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0400 U	< 0.0004 U	< 0.0004 U
SW8260B	CYCLOHEXANE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	CYMENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOCHLOROMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	DICHLORODIFLUOROMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	Diethyl ether				mg/l	< 0.0010 U	0.0052	< 0.0010 U	< 0.0010 U	0.0015	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	DIISOPROPYL ETHER				mg/l	< 0.0010 U	0.0016	< 0.0010 U	< 0.0010 U	0.0016	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	ETHYLBENZENE		1.6		mg/l	< 0.0010 U	0.0020	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	Ethyltertiarybutylether				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	HEXACHLORO-1,3-BUTADIENE				mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0600 U	< 0.0006 U	< 0.0006 U
SW8260B	HEXACHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	ISOPROPYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYL ACETATE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	METHYL TERT-BUTYL ETHER		5		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYLCYCLOHEXANE				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW8260B	METHYLENE CHLORIDE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	m-Xylene & p-Xylene				mg/l	< 0.0020 U	0.0056	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.200 U	< 0.0020 U	< 0.0020 U
SW8260B	NAPHTHALENE				mg/l	< 0.0010 U	0.0036	0.0015	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	N-BUTYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	N-PROPYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	O-XYLENE				mg/l	< 0.0010 U	0.0026	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	STYRENE		2.2		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	tert-Butylbenzene				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	tertiaryAmylmethylether				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRACHLOROETHENE (PCE)		**0.15**		mg/l	< 0.0010 U	**1.20 D**	**0.393 D**	**0.245 D**	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRAHYDROFURAN				mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.500 U	< 0.0050 U	< 0.0050 U
SW8260B	TOLUENE	**1.7**	**1.7**		mg/l	< 0.0010 U	0.0411	0.0095	0.0033	< 0.0010 U	0.0037	< 0.0010 U	< 0.0010 U	< 0.100 U	0.0016	< 0.0010 U
SW8260B	TRANS-1,2-DICHLOROETHENE		2.8		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TRANS-1,3-DICHLOROPROPENE				mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0400 U	< 0.0004 U	< 0.0004 U
SW8260B	TRICHLOROETHYLENE		0.54		mg/l	< 0.0010 U	0.0943	0.0165	0.0054	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	TRICHLOROFLUOROMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.100 U	< 0.0010 U	< 0.0010 U
SW8260B	VINYL ACETATE				mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.500 U	< 0.0050 U	< 0.0050 U
SW8260B	VINYL CHLORIDE		**0.002**		mg/l	**0.0323**	< 0.0010 U	**0.0060**	**0.0028**	< 0.0010 U	**0.0032**	**0.0089**	< 0.0010 U	< 0.100 U	**0.0023**	**0.0030**
SW9056	SULFATE AS SO4				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC.LK	TOTAL ORGANIC CARBON				mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
U = not detected above detection limits
D = Dilution
< indicates not detected above detection limits
Indicates exceedance of RIDEM GB Groundwater Criteria
Indicates exceedance of Site-specific Media Protection Standards
Indicates exceedance of Maximum Contaminant Level

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	WPT-06	WPT-07	WPT-07	WPT-07	WPT-07
					Sample Date	7/24/2013	7/25/2013	7/25/2013	7/25/2013	7/25/2013
					sample_type_code	N	FD	N	N	N
					Depth Interval	47.4 ft	43 ft	27.3 ft	43 ft	15 ft
					Matrix	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**					
353.2	NITRATE				mg/l	NA	NA	NA	NA	NA
AM20GAX	METHANE				ug/l	NA	NA	NA	NA	NA
CENSUS	Benzyl Succinate Synthase				Cells/ml	NA	NA	NA	NA	NA
CENSUS	biphenyl Dioxygenase				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Denitrifying bacteria (K)				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Denitrifying bacteria (S)				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Methanogen				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Phenol Hydrolase				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Sulfate Reducing Bacteria				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Toluene Dioxygenase				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Toluene Monooxygenase				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Total Eubacteria				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Trichlorobenzene Dehalogenase				Cells/ml	NA	NA	NA	NA	NA
CENSUS	Xylene Monoxygenase				Cells/ml	NA	NA	NA	NA	NA
HACH	Ferrous Iron				ug/l	NA	NA	NA	NA	NA
SW6010	IRON				mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1016			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1221			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1232			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1242			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1248			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1254			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1260			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1262			0.005	mg/l	NA	NA	NA	NA	NA
SW8082	AROCLOR-1268			0.005	mg/l	NA	NA	NA	NA	NA
SW8260B	1,1,1,2-TETRACHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,1-TRICHLOROETHANE (TCA)		3.1		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1,2,2-TETRACHLOROETHANE				mg/l	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U	< 0.0005 U
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE				mg/l	NA	NA	NA	NA	NA
SW8260B	1,1,2-TRICHLOROETHANE		3.1		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROETHENE		0.007		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,1-DICHLOROPROPENE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	1,2,3-TRICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,3-TRICHLOROPROPANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2,4-TRIMETHYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)		0.002		mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	1,2-DIBROMOETHANE (EDB)				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROBENZENE	**0.094**			mg/l	< 0.0010 U	0.0061	0.0058	< 0.0010 U	0.0055
SW8260B	1,2-DICHLOROETHANE		0.11		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,2-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3,5-TRIMETHYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,3-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-DICHLOROBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	1,4-Dioxane				mg/l	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
SW8260B	1-Chlorohexane				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	2,2-DICHLOROPROPANE		3		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	2-BUTANONE (MEK)				mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	2-CHLOROTOLUENE	**1.5**			mg/l	< 0.0010 U	0.0176	0.0160	< 0.0010 U	0.0985 D
SW8260B	2-HEXANONE				mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	2-PHENYLBUTANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	4-CHLOROTOLUENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	4-METHYL-2-PENTANONE (MIBK)				mg/l	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U	< 0.0250 U
SW8260B	ACETONE				mg/l	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U	< 0.0100 U
SW8260B	BENZENE		0.14		mg/l	< 0.0010 U	0.0172	0.0167	< 0.0010 U	0.0137
SW8260B	BROMOBENZENE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	BROMODICHLOROMETHANE				mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	BROMOFORM				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	BROMOMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	CARBON DISULFIDE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0080
SW8260B	CARBON TETRACHLORIDE		0.07		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROBENZENE	**1.7**	**3.2**		mg/l	0.0014	0.0578	0.0556	< 0.0010 U	**2.37 D**

Draft Table F-1
SRI Addendum Groundwater Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	WPT-06	WPT-07	WPT-07	WPT-07	WPT-07
					Sample Date	7/24/2013	7/25/2013	7/25/2013	7/25/2013	7/25/2013
					sample_type_code	N	FD	N	N	N
					Depth Interval	47.4 ft	43 ft	27.3 ft	43 ft	15 ft
					Matrix	WG	WG	WG	WG	WG
Analytical Method	**Chemical**	**MPS**	**GB Criteria**	**MCL**	**Units**					
SW8260B	CHLOROBROMOMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	CHLOROFORM				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CHLOROMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	CIS-1,2-DICHLOROETHENE		2.4		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	CIS-1,3-DICHLOROPROPENE				mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	CYCLOHEXANE				mg/l	NA	NA	NA	NA	NA
SW8260B	CYMENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOCHLOROMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DIBROMOMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DICHLORODIFLUOROMETHANE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	Diethyl ether				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	DIISOPROPYL ETHER				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	ETHYLBENZENE		1.6		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	Ethyltertiarybutylether				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	HEXACHLORO-1,3-BUTADIENE				mg/l	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U	< 0.0006 U
SW8260B	HEXACHLOROETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	ISOPROPYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYL ACETATE				mg/l	NA	NA	NA	NA	NA
SW8260B	METHYL TERT-BUTYL ETHER		5		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	METHYLCYCLOHEXANE				mg/l	NA	NA	NA	NA	NA
SW8260B	METHYLENE CHLORIDE				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	m-Xylene & p-Xylene				mg/l	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U	< 0.0020 U
SW8260B	NAPHTHALENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0010
SW8260B	N-BUTYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	N-PROPYLBENZENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	O-XYLENE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	0.0087
SW8260B	STYRENE		2.2		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	tert-Butylbenzene				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	tertiaryAmylmethylether				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRACHLOROETHENE (PCE)		**0.15**		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TETRAHYDROFURAN				mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	TOLUENE	**1.7**	**1.7**		mg/l	< 0.0010 U	0.0029	0.0033	< 0.0010 U	0.0014
SW8260B	TRANS-1,2-DICHLOROETHENE		2.8		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TRANS-1,3-DICHLOROPROPENE				mg/l	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U	< 0.0004 U
SW8260B	TRICHLOROETHYLENE		0.54		mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	TRICHLOROFLUOROMETHANE				mg/l	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U	< 0.0010 U
SW8260B	VINYL ACETATE				mg/l	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U	< 0.0050 U
SW8260B	VINYL CHLORIDE		**0.002**		mg/l	< 0.0010 U	0.0016	0.0017	0.0018	< 0.0010 U
SW9056	SULFATE AS SO4				mg/l	NA	NA	NA	NA	NA
TOC.LK	TOTAL ORGANIC CARBON				mg/l	NA	NA	NA	NA	NA

Notes:
U = not detected above detection limits
D = Dilution
< indicates not detected above detection limits
Indicates exceedance of RIDEM GB Groundwater Criteria
Indicates exceedance of Site-specific Media Protection Standards
Indicates exceedance of Maximum Contaminant Level

Draft Table F-2
SRI Addendum Shallow Soil Boring Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	SB138	SB139	SB140	SB141	SB142	SB142	SB143	SB144
					sample_type_code	N	N	N	N	FD	N	N	N
					Sample Date	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	SB138 0-.5 - 010714-1	SB139 0-.5 - 010714-1	SB140 0-.5 - 010714-1	SB141 0-.5 - 010714-1	SB142 0-.5 - 010714-2	SB142 0-.5 - 010714-1	SB143 0-.5 - 010714-1	SB144 0-.5 - 010714-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**								
SW6010	ARSENIC	7	7		mg/kg	< 1.9 U	< 2.2 U	< 2.4 U	< 2.1 U	< 2.3 U	< 2.4 U	< 2.6 U	< 2.5 U
SW6010	CADMIUM	39	1000		mg/kg	< 0.37 U	< 0.45 U	< 0.49 U	< 0.41 U	< 0.46 U	< 0.49 U	< 0.51 U	< 0.50 U
SW6010	COPPER	3100	10000		mg/kg	5.2	3.6	5.8	< 2.1 U	6.3	4.0	5.4	14.6
SW6010	LEAD	150	500		mg/kg	9.3	7.3	17.4	7.0	31.2	17.7	16.0	28.4
SW6010	MANGANESE	390	10000		mg/kg	112	123	107	85.3	115	102	118	196
SW6010	NICKEL	1000	10000		mg/kg	3.5	3.1	4.5	2.6	3.3	2.7	3.7	5.9
SW6010	VANADIUM	550	10000		mg/kg	6.0	5.6	7.5	13.1	7.2	5.7	7.0	11.6
SW6010	ZINC	6000	10000		mg/kg	21.3	20.3	32.8	22.0	28.2	24.7	24.5	44.4
SW7471	MERCURY	23	610		mg/kg	< 0.034 U	< 0.031 U	0.035	< 0.035 U	0.052	0.049	0.035	0.051
SW8082	AROCLOR-1016	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1221	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1232	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1242	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1248	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1254	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0658
SW8082	AROCLOR-1260	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1262	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	AROCLOR-1268	10	10		mg/kg	NA	NA	NA	NA	NA	NA	NA	< 0.0570 U
SW8082	Total PCB Aroclors	10	10	50	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0658
SW8100	TPH	**500**	2500		mg/kg	215	**1950**	121	245	161	255	184	NA
SW8270C	1,2,4,5-TETRACHLOROBENZENE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	1,2-BENZPHENANTHRACENE	**0.4**	780		mg/kg	0.276	**19.9**	**0.951**	< 0.185 U	**0.425**	**0.413**	**0.547**	**0.987**
SW8270C	2,2-OXYBIS(1-CHLOROPROPANE)	9.1	82		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2,4,5-TRICHLOROPHENOL	330	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2,4,6-TRICHLOROPHENOL	58	520		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2,4-DICHLOROPHENOL	30	6100		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2,4-DIMETHYLPHENOL	1400	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2,4-DINITROPHENOL	160	4100		mg/kg	< 1.84 U	< 1.73 U	< 1.77 U	< 1.85 U	< 1.83 U	< 1.80 U	< 1.76 U	< 1.94 U
SW8270C	2,4-DINITROTOLUENE	0.9	8.4		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2,6-DINITROTOLUENE	0.9	8.4		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2-CHLORONAPHTHALENE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2-CHLOROPHENOL	50	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2-METHYLNAPHTHALENE	123	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2-METHYLPHENOL	6000	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2-NITROANILINE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	2-NITROPHENOL	6000	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	3,3'-DICHLOROBENZIDINE	1.4	13		mg/kg	< 0.736 U	< 0.692 U	< 0.706 U	< 0.737 U	< 0.731 U	< 0.718 U	< 0.703 U	< 0.774 U
SW8270C	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	3-NITROANILINE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	4,6-DINITRO-2-METHYLPHENOL	160	4100		mg/kg	< 1.84 U	< 1.73 U	< 1.77 U	< 1.85 U	< 1.83 U	< 1.80 U	< 1.76 U	< 1.94 U
SW8270C	4-BROMOPHENYL PHENYL ETHER				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	4-CHLORO-3-METHYLPHENOL	50	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	4-CHLOROPHENYL PHENYL ETHER				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	4-METHYLPHENOL				mg/kg	< 0.736 U	< 0.692 U	< 0.706 U	< 0.737 U	< 0.731 U	< 0.718 U	< 0.703 U	< 0.774 U
SW8270C	4-NITROPHENOL	6000	10000		mg/kg	< 1.84 U	< 1.73 U	< 1.77 U	< 1.85 U	< 1.83 U	< 1.80 U	< 1.76 U	< 1.94 U
SW8270C	ACENAPHTHENE	43	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	ACENAPHTHYLENE	23	10000		mg/kg	< 0.367 U	2.60	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	ACETOPHENONE				mg/kg	< 0.736 U	< 0.692 U	< 0.706 U	< 0.737 U	< 0.731 U	< 0.718 U	< 0.703 U	< 0.774 U
SW8270C	ANTHRACENE	35	10000		mg/kg	< 0.367 U	2.45	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	ATRAZINE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	BENZO[A]ANTHRACENE	**0.9**	**7.8**		mg/kg	< 0.367 U	**22.9**	**0.959**	< 0.368 U	< 0.365 U	< 0.358 U	0.407	**0.965**
SW8270C	BENZO[A]PYRENE	**0.4**	**0.8**		mg/kg	0.210	**15.8**	**0.783**	< 0.185 U	0.303	0.312	**0.405**	**0.801**
SW8270C	BENZO[B]FLUORANTHENE	**0.9**	**7.8**		mg/kg	< 0.367 U	**20.0**	**1.20**	< 0.368 U	0.599	0.557	0.753	**1.30**
SW8270C	BENZO[G,H,I]PERYLENE	**0.8**	10000		mg/kg	< 0.367 U	**10.4**	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	BENZO[K]FLUORANTHENE	**0.9**	78		mg/kg	< 0.367 U	**8.82**	0.417	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	0.442
SW8270C	BENZYL BUTYL PHTHALATE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	Biphenyl				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	BIS(2-CHLOROETHOXY)METHANE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U

Draft Table F-2
SRI Addendum Shallow Soil Boring Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	SB138	SB139	SB140	SB141	SB142	SB142	SB143	SB144
					sample_type_code	N	N	N	N	FD	N	N	N
					Sample Date	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	SB138 0-.5 - 010714-1	SB139 0-.5 - 010714-1	SB140 0-.5 - 010714-1	SB141 0-.5 - 010714-1	SB142 0-.5 - 010714-2	SB142 0-.5 - 010714-1	SB143 0-.5 - 010714-1	SB144 0-.5 - 010714-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**								
SW8270C	BIS(2-CHLOROETHYL)ETHER	0.6	5.2		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	46	410		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	CAPROLACTAM				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	CARBAZOLE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	CHLOROPHENOLS				mg/kg	< 1.84 U	< 1.73 U	< 1.77 U	< 1.85 U	< 1.83 U	< 1.80 U	< 1.76 U	< 1.94 U
SW8270C	DIBENZO[A,H]ANTHRACENE	**0.4**	**0.8**		mg/kg	< 0.184 U	**3.17**	< 0.177 U	< 0.185 U	< 0.183 U	< 0.180 U	< 0.176 U	< 0.194 U
SW8270C	DIBENZOFURAN				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	DIETHYL PHTHALATE	340	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	DIMETHYL PHTHALATE	1900	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	DI-N-BUTYLPHTHALATE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	DI-N-OCTYLPHTHALATE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	FLUORANTHENE	**20**	10000		mg/kg	0.499	**40.0**	1.62	< 0.368 U	0.671	0.792	0.885	2.10
SW8270C	FLUORENE	28	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	HEXACHLORO-1,3-BUTADIENE	8.2	73		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	HEXACHLOROBENZENE	0.4	3.6		mg/kg	< 0.184 U	< 0.173 U	< 0.177 U	< 0.185 U	< 0.183 U	< 0.180 U	< 0.176 U	< 0.194 U
SW8270C	HEXACHLOROCYCLOPENTADIENE				mg/kg	< 1.84 U	< 1.73 U	< 1.77 U	< 1.85 U	< 1.83 U	< 1.80 U	< 1.76 U	< 1.94 U
SW8270C	HEXACHLOROETHANE	46	410		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	INDENO[1,2,3-CD]PYRENE	**0.9**	**7.8**		mg/kg	< 0.367 U	**9.35**	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	NAPHTHALENE	54	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	NITROBENZENE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	N-NITROSO-DI-N-PROPYLAMINE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	N-NITROSODIPHENYLAMINE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	P-CHLOROANILINE	310	8200		mg/kg	< 0.736 U	< 0.692 U	< 0.706 U	< 0.737 U	< 0.731 U	< 0.718 U	< 0.703 U	< 0.774 U
SW8270C	PENTACHLOROPHENOL	5.3	48		mg/kg	< 1.84 U	< 1.73 U	< 1.77 U	< 1.85 U	< 1.83 U	< 1.80 U	< 1.76 U	< 1.94 U
SW8270C	PHENANTHRENE	40	10000		mg/kg	< 0.367 U	1.61	< 0.353 U	< 0.368 U	< 0.365 U	0.413	< 0.351 U	0.628
SW8270C	PHENOL	6000	10000		mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	P-NITROANILINE				mg/kg	< 0.367 U	< 0.345 U	< 0.353 U	< 0.368 U	< 0.365 U	< 0.358 U	< 0.351 U	< 0.387 U
SW8270C	PYRENE	**13**	10000		mg/kg	< 0.367 U	**31.6**	1.12	< 0.368 U	0.432	0.487	0.610	1.52

Notes:
< indicates less than detection limit
U = not detected above detection limit
D = Dilution
RES DEC = Rhode Island Department of Environmental Management Residential Direct Contact Criteria in Soil
I/C DEC = Rhode Island Department of Environmental Management Industrial/Commercial Direct Contact Criteria in Soil
MPS = Media Protection Standard developed for Site-specific soil
Indicates exceedance of RES DEC
Indicates I/C DEC
NA = Not Analyzed

Draft Table F-2
SRI Addendum Shallow Soil Boring Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	SB145	SB145	SB146	SB147	SB148	SB149
					sample_type_code	FD	N	N	N	N	N
					Sample Date	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO
					sys_sample_code	SB145 0-.5 - 010714-2	SB145 0-.5 - 010714-1	SB146 0-.5 - 010714-1	SB147 0-.5 - 010714-1	SB148 0-.5 - 010714-1	SB149 0-.5 - 010714-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**						
SW6010	ARSENIC	7	7		mg/kg	NA	< 2.4 U	NA	3.5	< 2.9 U	3.9
SW6010	CADMIUM	39	1000		mg/kg	NA	< 0.47 U	NA	< 0.54 U	< 0.58 U	< 0.54 U
SW6010	COPPER	3100	10000		mg/kg	NA	10.0	NA	6.9	22.2	4.1
SW6010	LEAD	150	500		mg/kg	NA	20.6	NA	24.9	39.8	14.1
SW6010	MANGANESE	390	10000		mg/kg	NA	166	NA	69.0	221	76.2
SW6010	NICKEL	1000	10000		mg/kg	NA	4.4	NA	4.9	12.4	4.1
SW6010	VANADIUM	550	10000		mg/kg	NA	7.7	NA	17.7	15.1	15.5
SW6010	ZINC	6000	10000		mg/kg	NA	54.4	NA	31.4	263	19.6
SW7471	MERCURY	23	610		mg/kg	NA	0.073	NA	0.272	0.099	0.211
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1248	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1254	10	10		mg/kg	0.281	1.58	0.888	0.863	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	0.492	< 0.0600 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0553 U	< 0.0531 U	< 0.0562 U	< 0.0526 U	< 0.315 U	< 0.0600 U
SW8082	Total PCB Aroclors	10	10	50	mg/kg	0.281	1.58	0.888	0.863	0.492	< 0.0600 U
SW8100	TPH	**500**	2500		mg/kg	NA	NA	NA	NA	NA	NA
SW8270C	1,2,4,5-TETRACHLOROBENZENE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	1,2-BENZPHENANTHRACENE	**0.4**	780		mg/kg	NA	**1.45**	NA	**2.72**	0.257	< 0.206 U
SW8270C	2,2-OXYBIS(1-CHLOROPROPANE)	9.1	82		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2,4,5-TRICHLOROPHENOL	330	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2,4,6-TRICHLOROPHENOL	58	520		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2,4-DICHLOROPHENOL	30	6100		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2,4-DIMETHYLPHENOL	1400	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2,4-DINITROPHENOL	160	4100		mg/kg	NA	< 1.87 U	NA	< 1.74 U	< 2.12 U	< 2.06 U
SW8270C	2,4-DINITROTOLUENE	0.9	8.4		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2,6-DINITROTOLUENE	0.9	8.4		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2-CHLORONAPHTHALENE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2-CHLOROPHENOL	50	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2-METHYLNAPHTHALENE	123	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2-METHYLPHENOL	6000	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2-NITROANILINE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	2-NITROPHENOL	6000	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	3,3'-DICHLOROBENZIDINE	1.4	13		mg/kg	NA	< 0.747 U	NA	< 0.695 U	< 0.847 U	< 0.823 U
SW8270C	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	3-NITROANILINE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	4,6-DINITRO-2-METHYLPHENOL	160	4100		mg/kg	NA	< 1.87 U	NA	< 1.74 U	< 2.12 U	< 2.06 U
SW8270C	4-BROMOPHENYL PHENYL ETHER				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	4-CHLORO-3-METHYLPHENOL	50	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	4-CHLOROPHENYL PHENYL ETHER				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	4-METHYLPHENOL				mg/kg	NA	< 0.747 U	NA	< 0.695 U	< 0.847 U	< 0.823 U
SW8270C	4-NITROPHENOL	6000	10000		mg/kg	NA	< 1.87 U	NA	< 1.74 U	< 2.12 U	< 2.06 U
SW8270C	ACENAPHTHENE	43	10000		mg/kg	NA	< 0.373 U	NA	0.766	< 0.423 U	< 0.411 U
SW8270C	ACENAPHTHYLENE	23	10000		mg/kg	NA	0.416	NA	0.898	< 0.423 U	< 0.411 U
SW8270C	ACETOPHENONE				mg/kg	NA	< 0.747 U	NA	< 0.695 U	< 0.847 U	< 0.823 U
SW8270C	ANTHRACENE	35	10000		mg/kg	NA	< 0.373 U	NA	2.47	< 0.423 U	< 0.411 U
SW8270C	ATRAZINE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	BENZO[A]ANTHRACENE	**0.9**	**7.8**		mg/kg	NA	**1.57**	NA	**2.70**	< 0.423 U	< 0.411 U
SW8270C	BENZO[A]PYRENE	**0.4**	**0.8**		mg/kg	NA	**1.36**	NA	**2.38**	0.218	< 0.206 U
SW8270C	BENZO[B]FLUORANTHENE	**0.9**	**7.8**		mg/kg	NA	**2.29**	NA	**5.28**	< 0.423 U	< 0.411 U
SW8270C	BENZO[G,H,I]PERYLENE	**0.8**	10000		mg/kg	NA	0.417	NA	0.787	< 0.423 U	< 0.411 U
SW8270C	BENZO[K]FLUORANTHENE	**0.9**	78		mg/kg	NA	0.822	NA	**1.55**	< 0.423 U	< 0.411 U
SW8270C	BENZYL BUTYL PHTHALATE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	1.76	< 0.411 U
SW8270C	Biphenyl				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	BIS(2-CHLOROETHOXY)METHANE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U

Draft Table F-2
SRI Addendum Shallow Soil Boring Results - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	SB145	SB145	SB146	SB147	SB148	SB149
					sample_type_code	FD	N	N	N	N	N
					Sample Date	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014	1/7/2014
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO
					sys_sample_code	SB145 0-.5 - 010714-2	SB145 0-.5 - 010714-1	SB146 0-.5 - 010714-1	SB147 0-.5 - 010714-1	SB148 0-.5 - 010714-1	SB149 0-.5 - 010714-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**						
SW8270C	BIS(2-CHLOROETHYL)ETHER	0.6	5.2		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	46	410		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	CAPROLACTAM				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	CARBAZOLE				mg/kg	NA	< 0.373 U	NA	0.374	< 0.423 U	< 0.411 U
SW8270C	CHLOROPHENOLS				mg/kg	NA	< 1.87 U	NA	< 1.74 U	< 2.12 U	< 2.06 U
SW8270C	DIBENZO[A,H]ANTHRACENE	**0.4**	**0.8**		mg/kg	NA	< 0.187 U	NA	0.227	< 0.212 U	< 0.206 U
SW8270C	DIBENZOFURAN				mg/kg	NA	< 0.373 U	NA	0.416	< 0.423 U	< 0.411 U
SW8270C	DIETHYL PHTHALATE	340	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	DIMETHYL PHTHALATE	1900	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	DI-N-BUTYLPHTHALATE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	DI-N-OCTYLPHTHALATE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	FLUORANTHENE	**20**	10000		mg/kg	NA	3.28	NA	6.67	0.588	< 0.411 U
SW8270C	FLUORENE	28	10000		mg/kg	NA	< 0.373 U	NA	0.901	< 0.423 U	< 0.411 U
SW8270C	HEXACHLORO-1,3-BUTADIENE	8.2	73		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	HEXACHLOROBENZENE	0.4	3.6		mg/kg	NA	< 0.187 U	NA	< 0.174 U	< 0.212 U	< 0.206 U
SW8270C	HEXACHLOROCYCLOPENTADIENE				mg/kg	NA	< 1.87 U	NA	< 1.74 U	< 2.12 U	< 2.06 U
SW8270C	HEXACHLOROETHANE	46	410		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	INDENO[1,2,3-CD]PYRENE	**0.9**	**7.8**		mg/kg	NA	0.472	NA	**0.926**	< 0.423 U	< 0.411 U
SW8270C	NAPHTHALENE	54	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	NITROBENZENE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	N-NITROSO-DI-N-PROPYLAMINE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	N-NITROSODIPHENYLAMINE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	P-CHLOROANILINE	310	8200		mg/kg	NA	< 0.747 U	NA	< 0.695 U	< 0.847 U	< 0.823 U
SW8270C	PENTACHLOROPHENOL	5.3	48		mg/kg	NA	< 1.87 U	NA	< 1.74 U	< 2.12 U	< 2.06 U
SW8270C	PHENANTHRENE	40	10000		mg/kg	NA	0.552	NA	4.07	< 0.423 U	< 0.411 U
SW8270C	PHENOL	6000	10000		mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	P-NITROANILINE				mg/kg	NA	< 0.373 U	NA	< 0.347 U	< 0.423 U	< 0.411 U
SW8270C	PYRENE	**13**	10000		mg/kg	NA	2.17	NA	4.21	< 0.423 U	< 0.411 U

Notes:
< indicates less than detection limit
U = not detected above detection limit
D = Dilution
RES DEC = Rhode Island Department of Environmental Management Residential Direct Contact Criteria in Soil
I/C DEC = Rhode Island Department of Environmental Management Industrial/Commercial Direct Contact Criter
MPS = Media Protection Standard developed for Site-specific soil
Indicates exceedance of RES DEC
Indicates I/C DEC
NA = Not Analyzed

Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	A100	A120	A140	A160	A180	A200	A200	A220	A240
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/25/2013
					depth_interval	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 3 ft	2 - 4 ft	2 - 4 ft	4 - 6 ft	2 - 4 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	A100(2-4)-062713-1	A120(2-4)-062713-1	A140(2-4)-062713-1	A160(2-3)-062713-1	A180(2-4)-062713-1	A200(2-4)-062713-1	A200(4-6)-062713-1	A220(2-4)-062713-1	A240(2-4)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	7.98 D	< 0.0526 U	**12.5 D**	1.36	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0586 U	< 0.0497 U	0.502	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0586 U	< 0.0497 U	< 0.0554 U	< 1.08 U	< 0.0526 U	< 1.12 U	< 0.0569 U	< 0.0595 U	< 0.0583 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0586 U	< 0.0497 U	0.502	7.98	< 0.0526 U	**12.5**	1.36	< 0.0595 U	< 0.0583 U

Notes
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MPS = Media Protection Standard developed for Site-specific soil
Indicates exceedance of Media Protection Standards
Indicates exceedance of RIDEM Residential Direct Exposure Criteria
Indicates exceedance of RIDEM Industrial/Commercial Direct Exposure Criteria

Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	A300	A40	A40	A40	A80	A80	A80	AA00	AA-20
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/25/2013	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013	6/24/2013	1/9/2014
					depth_interval	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	A300(2-4)-062513-1	A40(0-0.5)-062813-1	A40(1-2)-062813-1	A40(2-4)-062813-1	A80(0-0.5)-062713-1	A80(1-2)-062713-1	A80(2-4)-062713-1	AA00(0-0.5)-062413-1	AA-20 0-0.5 - 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0539 U	2.75 D	< 0.0503 U	< 0.0731 U	3.33 D	< 0.0609 U	< 0.0581 U	0.454	2.53
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0539 U	< 0.0517 U	< 0.0503 U	< 0.0731 U	< 0.0533 U	< 0.0609 U	< 0.0581 U	< 0.0546 U	< 0.0586 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0539 U	2.75	< 0.0503 U	< 0.0731 U	3.33	< 0.0609 U	< 0.0581 U	0.454	2.53

Notes
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Indicates exceedance of Media Protection Standards
Indicates exceedance of RIDEM Residential Direct Exposure Criteria
Indicates exceedance of RIDEM Industrial/Commercial Direct Exposure Criteria

Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	AA-20	AA-20	B0	B0	B0	B100	B140	B20	B20	B20
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	1/9/2014	1/9/2014	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/28/2013	6/28/2013	6/28/2013
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	AA-20 1-2 010914-1	AA-20 2-4 010914-1	B0(0-0.5)-062813-1	B0(1-2)-062813-1	B0(2-4)-062813-1	B100(2-4)-062713-1	B140(2-4)-062713-1	B20(0-0.5)-062813-1	B20(1-2)-062813-1	B20(2-4)-062813-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0582 U	< 0.0556 U	3.05 D	0.245	0.0808	0.0987	0.0589	**50.2 D**	1.97 D	0.471
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0582 U	< 0.0556 U	< 0.0539 U	< 0.0518 U	< 0.0521 U	< 0.0561 U	< 0.0588 U	< 2.87 U	< 0.0518 U	< 0.0553 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0582 U	< 0.0556 U	3.05	0.245	0.0808	0.0987	0.0589	**50.2**	1.97	0.471

Notes
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Indicates exceedance of Media Protection Standards
Indicates exceedance of RIDEM Residential Direct Exposure Criteria
Indicates exceedance of RIDEM Industrial/Commercial Direct Exposure Criteria

Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	B200	B200	B220	B240	B260	B280	B300	B320	B340
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/27/2013	6/27/2013	6/27/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
					depth_interval	2 - 4 ft	4 - 6 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	B200(2-4)-062713-1	B200(4-6)-062713-1	B220(2-4)-062713-1	B240(2-4)-062513-1	B260(2-4)-062513-1	B280(2-4)-062513-1	B300(2-4)-062513-1	B320(2-4)-062513-1	B340(2-4)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	1.25 D	0.152
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**23.7 D**	0.0720	0.314	3.39 D	0.341	0.371 P	6.20 D	3.89 D	0.218
SW8082	AROCLOR-1260	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 2.90 U	< 0.0577 U	< 0.0539 U	< 0.0533 U	< 0.0529 U	< 0.0515 U	< 0.0532 U	< 0.0520 U	< 0.0512 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**23.7**	0.0720	0.314	3.39	0.341	0.371	6.20	5.14	0.370

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	B360	B40	B60	B60	B60	BB00	BB-20	BB-20	BB-20
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/25/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/24/2013	1/9/2014	1/9/2014	1/9/2014
					depth_interval	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	B360(2-4)-062513-1	B40(2-4)-062813-1	B60(0-0.5)-062813-1	B60(1-2)-062813-1	B60(2-4)-062813-1	BB00(0-0.5)-062413-1	BB-20 0-0.5 - 010914-1	BB-20 1-2 010914-1	BB-20 2-4 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0513 U	0.0806	0.104	< 0.0527 U	1.31 D	< 0.0568 U	3.37	2.17 D	0.233
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	1.40	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0513 U	< 0.0533 U	< 0.0524 U	< 0.0527 U	< 0.0571 U	< 0.0568 U	< 0.0650 U	< 0.0585 U	< 0.0548 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0513 U	0.0806	0.104	< 0.0527 U	1.31	< 0.0568 U	4.77	2.17	0.233

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	C0	C0	C0	C100	C120	C160	C180	C20	C220	C220
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/28/2013	6/27/2013	6/27/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	C0(0-0.5)-062813-1	C0(1-2)-062813-1	C0(2-4)-062813-1	C100(2-4)-062613-1	C120(2-4)-062713-1	C160(2-4)-062713-1	C180(2-4)-062713-1	C20(2-4)-062813-1	C220(2-4)-062713-1	C220(4-6)-062713-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	6.53 D	5.35 D	< 0.0527 U	**12.0 D**	**34.3**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	< 0.0553 U	< 0.0539 U	< 0.0527 U	< 1.09 U	< 2.85 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0508 U	< 0.0533 U	< 0.0530 U	< 0.0608 U	< 0.0569 U	6.53	5.35	< 0.0527 U	**12.0**	**34.3**

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	C240	C320	C320	C360	C360	C360	C360	C40	C60
					sample_type_code	N	N	N	N	N	FD	N	N	FD
					Sample Date	6/25/2013	6/25/2013	6/25/2013	1/16/2014	1/16/2014	1/16/2014	1/16/2014	6/28/2013	6/28/2013
					depth_interval	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	C240(2-4)-062513-1	C320(0-0.5)-062513-1	C320(1-2)-062513-1	C360 0-0.5 - 011614-1	C360 1-2 - 011614-1	C360 1-2 - 011614-2	C360 2-4 - 011614-1	C40(2-4)-062813-1	C60(0-0.5)-062813-2
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 1.08 U	1.71 PD	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**14.2 D**	3.90 D	**31.4 D**	< 0.0522 U	< 0.0527 U	< 0.0508 U	0.250	< 0.0526 U	**20.6 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	0.255	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 1.08 U	< 0.275 U	< 2.83 U	< 0.0522 U	< 0.0527 U	< 0.0508 U	< 0.0551 U	< 0.0526 U	< 1.04 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**14.2**	5.61	**31.4**	< 0.0522 U	< 0.0527 U	< 0.0508 U	0.505	< 0.0526 U	**20.6**

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BASF - 180 Mill Street
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					Sample ID	C60	C60	C60	C60	C60	C80	C80	C80	C80	C80
					sample_type_code	N	FD	N	FD	N	FD	N	FD	N	FD
					Sample Date	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	C60(0-0.5)-062813-1	C60(1-2)-062813-2	C60(1-2)-062813-1	C60(2-4)-062813-2	C60(2-4)-062813-1	C80(0-0.5)-062713-2	C80(0-0.5)-062713-1	C80(1-2)-062713-2	C80(1-2)-062713-1	C80(2-4)-062713-2
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	9.31 D	0.254	0.840	0.167	0.214	8.59 D	**17.8 D**	0.671	0.788	0.0581
SW8082	AROCLOR-1260	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 1.09 U	< 0.0513 U	< 0.0514 U	< 0.0537 U	< 0.0546 U	< 1.01 U	< 2.61 U	< 0.0545 U	< 0.0523 U	< 0.0549 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	9.31	0.254	0.840	0.167	0.214	8.59	**17.8**	0.671	0.788	0.0581

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BASF - 180 Mill Street
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					Sample ID	C80	CC00	D0	D0	D0	D100	D120	D140	D160
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/27/2013	6/24/2013	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013
					depth_interval	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	C80(2-4)-062713-1	CC00(0-0.5)-062413-1	D0(0-0.5)-062813-1	D0(1-2)-062813-1	D0(2-4)-062813-1	D100(2-4)-062713-1	D120(2-4)-062713-1	D140(2-4)-062713-1	D160(2-4)-062713-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.0687	0.500	0.424	< 0.0521 U	< 0.0544 U	3.24 D	< 0.0528 U	< 0.0531 U	0.0896
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0539 U	< 0.0552 U	< 0.0545 U	< 0.0521 U	< 0.0544 U	< 0.0539 U	< 0.0528 U	< 0.0531 U	< 0.0571 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.0687	0.500	0.424	< 0.0521 U	< 0.0544 U	3.24	< 0.0528 U	< 0.0531 U	0.0896

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BASF - 180 Mill Street
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					Sample ID	D180	D20	D20	D20	D200	D220	D220	D240	D260
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/27/2013	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013	6/25/2013	6/25/2013
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	4 - 6 ft	2 - 4 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	D180(0-0.5)-062713-1	D20(0-0.5)-062813-1	D20(1-2)-062813-1	D20(2-4)-062813-1	D200(2-4)-062713-1	D220(2-4)-062713-1	D220(4-6)-062713-1	D240(2-4)-062513-1	D260(0-0.5)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.971	**34.9 D**	1.90 D	< 0.0508 U	0.0613	**16.1 D**	**69.7**	**18.4 D**	7.60 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0528 U	< 2.72 U	< 0.0513 U	< 0.0508 U	< 0.0566 U	< 2.76 U	< 5.75 U	< 1.14 U	< 0.0521 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.971	**34.9**	1.90	< 0.0508 U	0.0613	**16.1**	**69.7**	**18.4**	7.60

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Indicates exceedance of RIDEM Residential Direct Exposure Criteria
Indicates exceedance of RIDEM Industrial/Commercial Direct Exposure Criteria

Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	D260	D260	D280	D280	D280	D300	D300	D300	D300
					sample_type_code	N	N	N	N	N	FD	N	FD	N
					Sample Date	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	D260(1-2)-062513-1	D260(2-4)-062513-1	D280(0-0.5)-062513-1	D280(1-2)-062513-1	D280(2-4)-062513-1	D300(0-0.5)-062513-2	D300(0-0.5)-062513-1	D300(1-2)-062513-2	D300(1-2)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	5.51 D	5.55 PD	**40.2 D**	**26.6 D**	< 2.92 U	**29.3 D**	**30.2 D**	0.209 P	0.171
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0552 U	< 0.0559 U	< 2.80 U	< 2.84 U	< 2.92 U	< 2.59 U	< 2.70 U	< 0.0559 U	< 0.0582 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	5.51	5.55	**40.2**	**26.6**	< 2.92 U	**29.3**	**30.2**	0.209	0.171

Notes
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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	D300	D300	D320	D320	D320	D60	D60	D60	D80
					sample_type_code	FD	N	N	N	N	N	N	N	N
					Sample Date	6/25/2013	6/25/2013	1/9/2014	1/9/2014	1/9/2014	6/28/2013	6/28/2013	6/28/2013	6/27/2013
					depth_interval	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4.75 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	D300(2-4)-062513-2	D300(2-4)-062513-1	D320 0-0.5 - 010914-1	D320 1-2 - 010914-1	D320 2-4.75 - 010914-1	D60(0-0.5)-062813-1	D60(1-2)-062813-1	D60(2-4)-062813-1	D80(0-0.5)-062713-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	1.34	< 0.0597 U	< 0.0515 U	0.249	0.273	**32.2 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	< 0.0551 U	< 0.0597 U	< 0.0515 U	< 0.0530 U	< 0.0562 U	< 2.73 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0575 U	< 0.0581 U	< 0.0522 U	1.34	< 0.0597 U	< 0.0515 U	0.249	0.273	**32.2**

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SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	D80	D80	DD00	E0	E0	E0	E100	E140	E160
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/27/2013	6/27/2013	6/24/2013	6/28/2013	6/28/2013	6/28/2013	6/27/2013	6/27/2013	6/27/2013
					depth_interval	1 - 2 ft	2 - 3 ft	0 - 0.5 ft	0 - 0.4 ft	1 - 2 ft	2 - 3 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	D80(1-2)-062713-1	D80(2-3)-062713-1	DD00(0-0.5)-062413-1	E0(0-0.5)-062813-1	E0(1-2)-062813-1	E0(2-3)-062813-1	E100(2-4)-062713-1	E140(0-0.5)-062713-1	E160(0-0.5)- 062713-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.767	< 0.0541 U	0.0625	0.419	< 0.0520 U	0.0563	< 0.0520 U	< 0.0495 U	**56.6 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0512 U	< 0.0541 U	< 0.0552 U	< 0.0532 U	< 0.0520 U	< 0.0507 U	< 0.0520 U	< 0.0495 U	< 5.45 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.767	< 0.0541 U	0.0625	0.419	< 0.0520 U	0.0563	< 0.0520 U	< 0.0495 U	**56.6**

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BASF - 180 Mill Street
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					Sample ID	E180	E20	E200	E220	E220	E220	E220	E320	E320
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/27/2013	6/28/2013	6/27/2013	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014
					depth_interval	0 - 0.5 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	2 - 4 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	E180(0-0.5)-062713-1	E20(2-4)-062813-1	E200(0-0.5)-062713-1	E220 0-0.5 - 010914-1	E220 1-2 - 010914-1	E220 2-4 - 010914-1	E220 4-6 010914-1	E320 2-4 - 010914-1	E320 1-2 - 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**60.9 D**	< 0.0542 U	**67.4 D**	**17.2**	**22.5**	**14.8**	9.69 D	< 0.0568 U	**11.4**
SW8082	AROCLOR-1260	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 5.51 U	< 0.0542 U	< 5.45 U	< 1.33 U	< 2.89 U	< 1.12 U	< 0.0561 U	< 0.0568 U	< 1.12 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**60.9**	< 0.0542 U	**67.4**	**17.2**	**22.5**	**14.8**	9.69	< 0.0568 U	**11.4**

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BASF - 180 Mill Street
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					Sample ID	E320	E320	E40	E60	E80	EE00	F0	F100	F120	F160
					sample_type_code	N	FD	N	N	N	N	N	N	N	N
					Sample Date	1/9/2014	1/9/2014	6/28/2013	6/28/2013	6/27/2013	6/24/2013	6/28/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	E320 0-0.5 - 010914-1	E320 1-2 - 010914-2	E40(2-4)-062813-1	E60(2-4)-062813-1	E80(2-4)-062713-1	EE00(0-0.5)-062413-1	F0(2-4)-062813-1	F100(2-4)-062613-1	F120(2-4)-062613-1	F160(0-0.5)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	< 0.0557 U	< 1.08 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	< 0.0557 U	< 1.08 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	< 0.0557 U	< 1.08 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	< 0.0557 U	< 1.08 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	0.439	0.555	< 0.0557 U	< 1.08 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.309	**10.2**	< 0.0551 U	0.652	0.204	0.0758	0.613	0.789	3.00 D	**16.0 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0522 U	3.44	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	1.29 D	< 1.08 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	< 0.0557 U	< 1.08 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0522 U	< 1.20 U	< 0.0551 U	< 0.0576 U	< 0.0507 U	< 0.0548 U	< 0.0590 U	< 0.0555 U	< 0.0557 U	< 1.08 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.309	**13.6**	< 0.0551 U	0.652	0.204	0.0758	1.05	1.34	4.29	**16.0**

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					Sample ID	F160	F160	F180	F180	F180	F200	F200	F200	F240
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/25/2013
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	F160(1-2)-062613-1	F160(2-4)-062613-1	F180(0-0.5)-062613-1	F180(1-2)-062613-1	F180(2-4)-062613-1	F200(0-0.5)-062613-1	F200(1-2)-062613-1	F200(2-4)-062613-1	F240(0-0.5)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	1.75 D	< 0.0534 U	**16.2 D**	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	3.43 D	0.667	**40.2 D**	**36.8 D**	2.11 D	**22.2 D**	**30.3 D**	0.486	2.89 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0556 U	< 0.0534 U	< 2.87 U	< 2.62 U	< 0.0546 U	< 2.74 U	< 2.74 U	< 0.0563 U	< 0.0514 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	5.18	0.667	**56.4**	**36.8**	2.11	**22.2**	**30.3**	0.486	2.89

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	F240	F240	F260	F260	F260	F320	F320	F320	F360
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	1/9/2014	1/9/2014	1/9/2014	1/9/2014
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	F240(1-2)-062513-1	F240(2-4)-062513-1	F260(0-0.5)-062513-1	F260(1-2)-062513-1	F260(2-4)-062513-1	F320 0-0.5 - 010914-1	F320 1-2 - 010914-1	F320 2-4 - 010914-1	F360 0-0.5 - 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.155	< 0.0570 U	**23.1 D**	0.162	0.239	3.10	0.284	< 0.0583 U	0.432
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	0.0890	< 0.0533 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0522 U	< 0.0570 U	< 2.67 U	< 0.0520 U	< 0.0535 U	< 0.0545 U	< 0.0541 U	< 0.0583 U	< 0.0533 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.155	< 0.0570 U	**23.1**	0.162	0.239	3.10	0.284	0.0890	0.432

Notes
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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	F360	F360	F380	F380	F380	F60	F80	FF00	G100
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	6/28/2013	6/26/2013	6/24/2013	6/26/2013
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	F360 1-2 - 010914-1	F360 2-4 - 010914-1	F380 0-0.5 - 010914-1	F380 1-2 - 010914-1	F380 2-4 - 010914-1	F60(2-4)-062813-1	F80(2-4)-062613-1	FF00(0-0.5)-062413-1	G100(2-4)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.289	0.305	0.133	0.326	< 0.0558 U	0.571	0.123	< 0.0520 U	**24.8 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0564 U	< 0.0580 U	< 0.0534 U	< 0.0550 U	< 0.0558 U	< 0.0569 U	< 0.0531 U	< 0.0520 U	< 2.90 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.289	0.305	0.133	0.326	< 0.0558 U	0.571	0.123	< 0.0520 U	**24.8**

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	G140	G140	G140	G180	G180	G180	G20	G200	G200
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/28/2013	6/26/2013	6/26/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	G140(0-0.5)-062613-1	G140(1-2)-062613-1	G140(2-4)-062613-1	G180(0-0.5)-062613-1	G180(1-2)-062613-1	G180(2-4)-062613-1	G20(2-4)-062813-1	G200(0-0.5)-062613-1	G200(1-2)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	4.67 D	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	1.19	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**19.4 D**	1.03	0.846	**16.5 D**	**22.6 D**	0.0799	< 0.0670 U	1.65 D	**27.5 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 2.69 U	< 0.0529 U	< 0.0535 U	< 2.67 U	< 2.79 U	< 0.0529 U	< 0.0670 U	< 0.0535 U	< 2.69 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**19.4**	1.03	0.846	**16.5**	**27.3**	0.0799	1.19	1.65	**27.5**

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BASF - 180 Mill Street
Cranston, RI

					Sample ID	G200	G240	G240	G240	G240	G260	G260	G260	G260
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
					depth_interval	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	G200(2-4)-062613-1	G240(0-0.5)-062513-1	G240(1-2)-062513-1	G240(2-4)-062513-1	G240(4-6)-062513-1	G260(0-0.5)-062513-1	G260(1-2)-062513-1	G260(2-4)-062513-1	G260(4-6)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	2.78 D	1.41 D	< 0.0591 U	< 0.0610 U	< 0.0547 U	**26.0 D**	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0502 U	< 0.0554 U	< 0.0591 U	< 0.0610 U	< 0.0547 U	< 2.77 U	< 0.0523 U	< 0.0577 U	< 0.0532 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	2.78	1.41	< 0.0591 U	< 0.0610 U	< 0.0547 U	**26.0**	< 0.0523 U	< 0.0577 U	< 0.0532 U

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					Sample ID	G280	G280	G300	G300	G320	G320	G340	G340	G360
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/25/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	G280(0-0.5)-062513-1	G280(1-2)-062513-1	G300(0-0.5)-062513-1	G300(1-2)-062513-1	G320(0-0.5)-062513-1	G320(1-2)-062513-1	G340(0-0.5)-062513-1	G340(1-2)-062513-1	G360(0-0.5)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	6.21 D	< 0.0514 U	0.337	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**30.9 D**	**72.3 D**	**16.1 D**	5.09 D	2.15 D	0.257	3.54 D	< 0.0577 U	6.89 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 2.77 U	< 5.60 U	< 1.09 U	< 0.0545 U	< 0.0514 U	< 0.0508 U	< 0.0615 U	< 0.0577 U	< 0.543 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**30.9**	**72.3**	**16.1**	**11.3**	2.15	0.594	3.54	< 0.0577 U	6.89

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					Sample ID	G360	G380	G380	G40	G40	G60	G80	H100	H120
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/25/2013	1/9/2014	1/9/2014	6/28/2013	6/28/2013	6/28/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	G360(1-2)-062513-1	G380 0-0.5 - 010914-1	G380 1-2 - 010914-1	G40(2-4)-062813-1	G40(4-6)-062813-1	G60(2-4)-062813-1	G80(2-4)-062613-1	H100(0-0.5)-062613-1	H120(0-0.5)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	< 1.14 U	< 0.0613 U	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	< 1.14 U	< 0.0613 U	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	< 1.14 U	< 0.0613 U	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	< 1.14 U	4.82	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	**11.0 D**	< 0.0613 U	2.40 D	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.157	1.90	< 0.0562 U	< 1.14 U	< 0.0613 U	2.75 D	< 0.0540 U	**10.7 D**	7.23 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0527 U	0.444	< 0.0562 U	< 1.14 U	< 0.0613 U	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	< 1.14 U	< 0.0613 U	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0527 U	< 0.0564 U	< 0.0562 U	< 1.14 U	< 0.0613 U	< 0.0524 U	< 0.0540 U	< 1.03 U	< 0.0513 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.157	2.34	< 0.0562 U	**11.0**	4.82	5.15	< 0.0540 U	**10.7**	7.23

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					Sample ID	H120	H120	H140	H140	H140	H180	H180	H20	H20
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/28/2013	6/28/2013
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	H120(1-2)-062613-1	H120(2-4)-062613-1	H140(0-0.5)-062613-1	H140(1-2)-062613-1	H140(2-4)-062613-1	H180(0-0.5)-062613-1	H180(1-2)-062613-1	H20(2-4)-062813-1	H20(4-6)-062813-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	**41.7 D**	1.43
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	1.36 D	< 0.0523 U	6.09 D	5.77 D	0.859	8.19 D	**14.0 D**	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0506 U	< 0.0523 U	< 0.0512 U	< 0.0520 U	< 0.0530 U	< 1.04 U	< 1.04 U	< 2.75 U	< 0.0544 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	1.36	< 0.0523 U	6.09	5.77	0.859	8.19	**14.0**	**41.7**	1.43

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	H200	H200	H200	H200	H240	H240	H240	H240	H240
					sample_type_code	N	N	N	N	FD	N	FD	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	H200(0-0.5)-062613-1	H200(1-2)-062613-1	H200(2-4)-062613-1	H200(4-6)-062613-1	H240(0-0.5)-062613-2	H240(0-0.5)-062613-1	H240(1-2)-062613-2	H240(1-2)-062613-1	H240(2-4)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	0.0918	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	8.87 D	**11.6 D**	0.0556	< 0.0551 U	0.169	0.266	**24.0 D**	**30.4 D**	< 0.0597 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 1.05 U	< 1.03 U	< 0.0507 U	< 0.0551 U	< 0.0526 U	< 0.0508 U	< 2.88 U	< 2.79 U	< 0.0597 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	8.87	**11.6**	0.0556	< 0.0551 U	0.169	0.358	**24.0**	**30.4**	< 0.0597 U

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BASF - 180 Mill Street
Cranston, RI

					Sample ID	H240	H260	H260	H260	H260	H280	H280	H280	H280
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	H240(4-6)-062613-1	H260(0-0.5)-062613-1	H260(1-2)-062613-1	H260(2-4)-062613-1	H260(4-6)-062613-1	H280(0-0.5)-062613-1	H280(1-2)-062613-1	H280(2-4)-062613-1	H280(4-6)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0611 U	1.00	**54.0 D**	< 0.0558 U	< 0.0554 U	**45.5 D**	**103 D**	**89.7 D**	**42.7**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0611 U	< 0.0534 U	< 5.64 U	< 0.0558 U	< 0.0554 U	< 5.69 U	< 5.70 U	< 5.74 U	< 2.98 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0611 U	1.00	**54.0**			**45.5**	**103**	**89.7**	**42.7**

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BASF - 180 Mill Street
Cranston, RI

					Sample ID	H300	H300	H300	H300	H340	H340	H360	H360	H380
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	1/9/2014
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	H300(0-0.5)-062613-1	H300(1-2)-062613-1	H300(2-4)-062613-1	H300(4-6)-062613-1	H340(0-0.5)-062613-1	H340(1-2)-062613-1	H360(0-0.5)-062613-1	H360(1-2)-062613-1	H380 0-0.5 - 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	5.21	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 5.54 U	< 5.63 U	2.18 D	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**67.2 D**	**35.7 D**	3.62 D	3.50	**11.5 D**	0.319	4.42 D	< 0.0531 U	8.65
SW8082	AROCLOR-1260	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 5.54 U	< 5.63 U	< 0.0506 U	< 0.0560 U	< 1.09 U	< 0.0521 U	< 0.0517 U	< 0.0531 U	< 0.0618 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**67.2**	**35.7**	5.80	8.71	**11.5**	0.319	4.42	< 0.0531 U	8.65

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BASF - 180 Mill Street
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					Sample ID	H380	H40	H60	HH00	I100	I100	I100	I100	I120
					sample_type_code	N	N	N	N	N	N	N	N	FD
					Sample Date	1/9/2014	6/28/2013	6/28/2013	6/24/2013	1/9/2014	1/9/2014	1/9/2014	1/9/2014	7/1/2013
					depth_interval	1 - 2 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	H380 1-2 - 010914-1	H40(2-4)-062813-1	H60(2-4)-062813-1	HH00(0-0.5)-062413-1	I100 0-0.5 - 010914-1	I100 1-2 - 010914-1	I100 2-4 010914-1	I100 4-6 010914-1	I120(0-0.5)-070113-2
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0546 U	0.0849	0.923	< 0.0557 U	0.606	1.60	< 0.0524 U	< 0.0523 U	4.94 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0546 U	< 0.0579 U	< 0.0542 U	< 0.0557 U	< 0.0540 U	< 0.0532 U	< 0.0524 U	< 0.0523 U	< 0.0522 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0546 U	0.0849	0.923	< 0.0557 U	0.606	1.60	< 0.0524 U	< 0.0523 U	4.94

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BASF - 180 Mill Street
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					Sample ID	I120	I120	I120	I140	I140	I160	I160	I160	I160
					sample_type_code	N	FD	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	I120(0-0.5)-070113-1	I120(1-2)-070113-2	I120(1-2)-070113-1	I140(0-0.5)-070113-1	I140(1-2)-070113-1	I160(0-0.5)-070113-1	I160(1-2)-070113-1	I160(2-4)-070113-1	I160(4-6)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	0.727	< 0.0506 U	4.26 D	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	2.23 D	0.256	0.262	1.01	0.749	4.21 D	4.64 D	0.623	< 0.0545 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0544 U	< 0.0520 U	< 0.0510 U	< 0.0531 U	< 0.0506 U	< 0.0544 U	< 0.0506 U	< 0.0511 U	< 0.0545 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	2.23	0.256	0.262	1.74	0.749	8.47	4.64	0.623	< 0.0545 U

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BASF - 180 Mill Street
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					Sample ID	I180	I180	I180	I180	I180	I180	I180	I200	I200
					sample_type_code	FD	N	FD	N	FD	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	I180(0-0.5)-062613-2	I180(0-0.5)-062613-1	I180(1-2)-062613-2	I180(1-2)-062613-1	I180(2-4)-062613-2	I180(2-4)-062613-1	I180(4-6)-062613-1	I200(0-0.5)-062613-1	I200(1-2)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	AROCLOR-1242	10	10		mg/kg	0.573 PD	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	2.04 D	< 2.69 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	1.41 D	1.02	**11.9 D**	**10.9 D**	**11.5 D**	1.39 D	< 0.0512 U	5.91 D	**20.9 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0512 U	< 0.0535 U	< 1.02 U	< 1.03 U	< 1.01 U	< 0.0508 U	< 0.0512 U	< 0.0530 U	< 2.69 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	1.98	1.02	**11.9**	**10.9**	**11.5**	1.39	< 0.0512 U	7.95	**20.9**

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	I200	I200	I220	I220	I260	I260	I280	I280	I280
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	2 - 4 ft	4 - 6 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	I200(2-4)-062613-1	I200(4-6)-062613-1	I220(2-4)-062613-1	I220(4-6)-062613-1	I260(0-0.5)-062613-1	I260(1-2)-062613-1	I280(0-0.5)-062613-1	I280(1-2)-062613-1	I280(2-4)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	0.136	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	0.519	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**40.2 D**	**65.8 D**	0.661	1.77 D	0.491 P	1.17 D	0.532	**37.4 D**	**10.6**
SW8082	AROCLOR-1260	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 3.11 U	< 3.41 U	< 0.0539 U	< 0.0553 U	< 0.0529 U	< 0.0525 U	< 0.0511 U	< 5.52 U	< 0.0578 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**40.2**	**65.8**	0.661	1.77	0.627	1.17	1.05	**37.4**	**10.6**

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	I280	I300	I300	I300	I300	I320	I320	I320	I320	I380
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014
					depth_interval	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	I280(4-6)-062613-1	I300 0-0.5 - 010814-1	I300 1-2 - 010814-1	I300 2-4 010814-1	I300 4-6 010814-1	I320 0-0.5 - 010814-1	I320 1-2 - 010814-1	I320 2-4 010814-1	I320 4-5 010814-1	I380 0-0.5 - 010814-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0559 U	0.817	5.21	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	2.55	1.75	**12.5**	7.30 D	6.46 D	0.472	**10.7**	2.82 D	1.06	3.41
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	0.184	< 1.05 U	< 0.0586 U	< 0.0541 U	1.65
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0559 U	< 0.0600 U	< 1.10 U	< 0.0536 U	< 0.0526 U	< 0.0566 U	< 1.05 U	< 0.0586 U	< 0.0541 U	< 0.0593 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	2.55	2.57	**17.7**	7.30	6.46	0.656	**10.7**	2.82	1.06	5.06

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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	I380	I380	I380	I40	I60	I80	I80	I100	J100	J100
					sample_type_code	N	FD	N	N	N	N	N	N	N	N
					Sample Date	1/8/2014	1/8/2014	1/8/2014	6/28/2013	6/28/2013	1/9/2014	1/9/2014	6/24/2013	7/1/2013	7/1/2013
					depth_interval	1 - 2 ft	1 - 2 ft	2 - 4 ft	2 - 4 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	I380 1-2 - 010814-1	I380 1-2 - 010814-2	I380 2-4 010814-1	I40(2-4)-062813-1	I60(2-4)-062813-1	I80 0-0.5 - 010914-1	I80 1-2 - 010914-1	I100(0-0.5)-062413-1	J100(0-0.5)-070113-1	J100(1-2)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	0.0698	0.672	3.53	0.577	< 0.0528 U	4.00 D	**72.4 D**
SW8082	AROCLOR-1260	10	10		mg/kg	6.11	4.24	9.68 D	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0550 U	< 0.0558 U	< 0.0541 U	< 0.0585 U	< 0.0571 U	< 0.0722 U	< 0.0518 U	< 0.0528 U	< 0.0544 U	< 5.84 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	6.11	4.24	9.68	0.0698	0.672	3.53	0.577	< 0.0528 U	4.00	**72.4**

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	J100	J100	J120	J120	J120	J140	J140	J160	J160
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
					depth_interval	2 - 4 ft	4 - 6 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	J100(2-4)-070113-1	J100(4-6)-070113-1	J120(1-2)-070113-1	J120(2-4)-070113-1	J120(4-6)-070113-1	J140(0-0.5)-070113-1	J140(1-2)-070113-1	J160(0-0.5)-070113-1	J160(1-2)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0539 U	< 0.0523 U	0.0547	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	7.32	< 0.0523 U	0.223	0.196	0.0552	9.65 D	1.68 D	0.0600 P	**11.4 D**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0539 U	< 0.0523 U	< 0.0509 U	< 0.0502 U	< 0.0539 U	< 1.09 U	< 0.0501 U	< 0.0545 U	< 1.08 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	7.32	< 0.0523 U	0.278	0.196	0.0552	9.65	1.68	0.0600	**11.4**

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BASF - 180 Mill Street
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					Sample ID	J160	J180	J180	J180	J200	J200	J200	J200	J220
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	1/9/2014	1/9/2014	1/9/2014	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	J160(2-4)-070113-1	J180 0-0.5 - 010914-1	J180 1-2 - 010914-1	J180 2-4 - 010914-1	J200(0-0.5)-062613-1	J200(1-2)-062613-1	J200(2-4)-062613-1	J200(4-6)-062613-1	J220(0-0.5)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0502 U	0.793	< 0.0569 U	< 0.0499 U	9.15 D	< 0.0535 U	< 0.0521 U	< 0.0517 U	**33.7 D**
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.0959	1.04	5.31	0.207	4.36	0.959	1.56 D	0.296	< 2.70 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0502 U	< 0.0567 U	< 0.0569 U	< 0.0499 U	< 0.0536 U	< 0.0535 U	< 0.0521 U	< 0.0517 U	< 2.70 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.0959	1.83	5.31	0.207	**13.5**	0.959	1.56	0.296	**33.7**

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BASF - 180 Mill Street
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					Sample ID	J220	J220	J240	J240	J260	J260	J280	J280	J300
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	1/8/2014	1/8/2014	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	J220(1-2)-062613-1	J220(2-4)-062613-1	J240 0-0.5 - 010814-1	J240 1-2 - 010814-1	J260(0-0.5)-062613-1	J260(1-2)-062613-1	J280(0-0.5)-062613-1	J280(1-2)-062613-1	J300(0-0.5)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1242	10	10		mg/kg	0.137	< 0.0549 U	< 0.0568 U	< 0.0559 U	0.141	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0535 U	< 0.0549 U	0.807	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	0.253 P	< 0.0533 U	< 0.0543 U	**25.3 D**	5.42 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0535 U	< 0.0549 U	< 0.0568 U	< 0.0559 U	< 0.0494 U	< 0.0533 U	< 0.0543 U	< 2.81 U	< 0.0507 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.137	< 0.0549 U	0.807	< 0.0559 U	0.394	< 0.0533 U	< 0.0543 U	**25.3**	5.42

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	J300	J300	J320	J320	J320	J320	J80	J80	J80	J80
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/26/2013	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	J300(1-2)-062613-1	J300(2-4)-062613-1	J320 0-0.5 011714-1	J320 1-2 011714-1	J320 2-4 011714-1	J320 4-6 -011714-1	J80 0-0.5 - 010914-1	J80 1-2 - 010914-1	J80 2-4 010914-1	J80 4-6 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**24.4 D**	**12.3**	< 0.0564 U	2.31 D	0.271	0.854	0.840	**46.2**	0.433	0.0721
SW8082	AROCLOR-1260	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 2.76 U	< 1.11 U	< 0.0564 U	< 0.0541 U	< 0.0528 U	< 0.0523 U	< 0.0602 U	< 2.86 U	< 0.0537 U	< 0.0549 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**24.4**	**12.3**	< 0.0564 U	2.31	0.271	0.854	0.840	**46.2**	0.433	0.0721

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	JJ00	K100	K100	K100	K120	K120	K120	K160	K160
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/24/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 2.5 ft	1 - 2 ft	2 - 4 ft	4 - 4.5 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	JJ00(0-0.5)-062413-1	K100(0-0.5)-070113-1	K100(1-2)-070113-1	K100(2-2.5)-070113-1	K120(1-2)-070113-1	K120(2-4)-070113-1	K120(4-4.5)-070113-1	K160(0-0.5)-070113-1	K160(1-2)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0540 U	0.277	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0540 U	0.554	2.16 D	1.59	3.50 D	0.546	0.775	3.28 D	0.219
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0540 U	< 0.0528 U	< 0.0531 U	< 0.0543 U	< 0.0524 U	< 0.0574 U	< 0.0549 U	< 0.0525 U	< 0.0498 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0540 U	0.831	2.16	1.59	3.50	0.546	0.775	3.28	0.219

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
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					Sample ID	K160	K160	K200	K200	K200	K220	K220	K220	K220
					sample_type_code	N	N	N	N	FD	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014
					depth_interval	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	K160(2-4)-070113-1	K160(4-6)-070113-1	K200 0-0.5 - 010914-1	K200 1-2 - 010914-1	K200 1-2 - 010914-2	K220 0-0.5 - 010914-1	K220 1-2 - 010914-1	K220 2-4 - 010914-1	K220 4-6 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0531 U	< 0.0538 U	0.381	< 0.0564 U	< 0.0518 U	0.959	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	< 0.0531 U	< 0.0538 U	0.470	< 0.0564 U	< 0.0518 U	1.11	< 0.0549 U	3.38	0.739
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0531 U	< 0.0538 U	< 0.0558 U	< 0.0564 U	< 0.0518 U	< 0.0577 U	< 0.0549 U	< 0.0560 U	< 0.0518 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	< 0.0531 U	< 0.0538 U	0.851	< 0.0564 U	< 0.0518 U	2.07	< 0.0549 U	3.38	0.739

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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	K260	K260	K280	K280	K280	K300	K300	K300	K300
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	1/8/2014	1/8/2014	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 5.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	K260 0-0.5 - 010814-1	K260 1-2 - 010814-1	K280(0-0.5)-062613-1	K280(1-2)-062613-1	K280(2-4)-062613-1	K300(0-0.5)- 062613-1	K300(1-2)-062613-1	K300(2-4)-062613-1	K300(4-5.5)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	0.0898	< 0.0528 U	0.0854	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.130	< 0.0528 U	0.0923	3.15 D	**19.4**	4.97 D	**20.4 D**	**12.4**	0.319
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0577 U	< 0.0528 U	< 0.0514 U	< 0.0543 U	< 2.90 U	< 0.0506 U	< 2.67 U	< 1.08 U	< 0.0514 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.220	< 0.0528 U	0.178	3.15	**19.4**	4.97	**20.4**	**12.4**	0.319

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BASF - 180 Mill Street
Cranston, RI

					Sample ID	KK00	L260	L260	L260	L260	L260	L280	L280	L300
					sample_type_code	N	N	N	FD	N	N	N	N	N
					Sample Date	6/24/2013	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	6/26/2013	6/26/2013	6/26/2013
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	KK00(0-0.5)-062413-1	L260 0-0.5 - 010814-1	L260 1-2 - 010814-1	L260 1-2 - 010814-2	L260 2-4 010814-1	L260 4-6 010814-1	L280(0-0.5)-062613-1	L280(1-2)- 062613-1	L300(0-0.5)-062613-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.782	< 0.0632 U	1.74	1.40	1.64 D	0.562	0.293	**10.3 D**	0.0724
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0534 U	< 0.0632 U	< 0.0560 U	< 0.0552 U	< 0.0559 U	< 0.0596 U	< 0.0524 U	< 1.07 U	< 0.0506 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.782	< 0.0632 U	1.74	1.40	1.64	0.562	0.293	**10.3**	0.0724

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BASF - 180 Mill Street
Cranston, RI

					Sample ID	L300	LL00	LM0	LM0	LM20	LM20	LM20	LM20	LM40
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	6/26/2013	6/24/2013	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/8/2014
					depth_interval	1 - 2 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	L300(1-2)-062613-1	LL00(0-0.5)-062413-1	L-M0 0-0.5 011714-1	L-M0 1-2 011714-1	L-M20 0-0.5 - 011714-1	L-M20 1-2 - 011714-1	L-M20 2-4 - 011714-1	L-M20 4-6 - 011714-1	L-M40 0-0.5 - 010814-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	0.348	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.963	0.132	2.00 D	2.51 D	5.41	8.25	0.631	0.105	0.0847
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0541 U	< 0.0531 U	< 0.0592 U	< 0.0534 U	< 0.0567 U	< 0.0553 U	< 0.0578 U	< 0.0602 U	< 0.0562 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.963	0.132	2.00	2.51	5.41	8.25	0.979	0.105	0.0847

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	LM40	LM40	LM60	LM60	LM60	LM60	LM60	M0	M0
					sample_type_code	N	N	N	N	N	N	FD	N	N
					Sample Date	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	1/17/2014	1/17/2014
					depth_interval	1 - 2 ft	2 - 3.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	L-M40 1-2 - 010814-1	L-M40 2-3.5 010814-1	L-M60 0-0.5 - 010814-1	L-M60 1-2 - 010814-1	L-M60 2-4 010814-1	L-M60 4-6 010814-1	L-M60 4-6 010814-2	M0 0-0.5 011714-1	M0 1-2 011714-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	1.79	1.80 D	0.0896	1.62	2.40 D	1.74 D	0.920	0.166	0.238
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0538 U	< 0.0540 U	< 0.0545 U	< 0.0546 U	< 0.0519 U	< 0.0542 U	< 0.0570 U	< 0.0563 U	< 0.0531 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	1.79	1.80	0.0896	1.62	2.40	1.74	0.920	0.166	0.238

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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	M20	M20	M20	M20	M20	M40	M40	M40	M40	M60
					sample_type_code	N	N	FD	N	N	N	N	N	N	N
					Sample Date	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/8/2014	1/8/2014	1/8/2014	1/8/2014	7/1/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	M20 0-0.5 - 011714-1	M20 1-2 - 011714-1	M20 1-2 - 011714-2	M20 2-4 - 011714-1	M20 4-6 - 011714-1	M40 0-0.5 - 010814-1	M40 1-2 - 010814-1	M40 2-4 - 010814-1	M40 4-6 010814-1	M60(0-0.5)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	1.03	0.366	0.383	0.191	0.218	0.988	**40.1**	**26.0**	**32.5 D**	3.09 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0566 U	< 0.0548 U	< 0.0548 U	< 0.0537 U	< 0.0568 U	< 0.0574 U	< 2.87 U	< 2.80 U	< 2.91 U	< 0.0538 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	1.03	0.366	0.383	0.191	0.218	0.988	**40.1**	**26.0**	**32.5**	3.09

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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	M60	M60	M60	M80	M80	M80	MM00	MM00	MM20	N0
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	6/24/2013	6/24/2013	6/24/2013	1/8/2014
					depth_interval	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	M60(1-2)-070113-1	M60(2-4)-070113-1	M60(4-6)-070113-1	M80(0-0.5)-070113-1	M80(1-2)-070113-1	M80(2-4)-070113-1	MM00(0-0.5)-062413-1	MM00(1-2)-062413-1	MM20(0-0.5)-062413-1	N00
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**17.8 D**	**45.7**	**62.6**	< 0.0537 U	0.342	0.369	1.96 D	0.562	0.0776	0.0992
SW8082	AROCLOR-1260	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 1.12 U	< 2.85 U	< 3.15 U	< 0.0537 U	< 0.0537 U	< 0.0552 U	< 0.0532 U	< 0.0508 U	< 0.0546 U	< 0.0538 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**17.8**	**45.7**	**62.6**	< 0.0537 U	0.342	0.369	1.96	0.562	0.0776	0.0992

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Draft Table F-3
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BASF - 180 Mill Street
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					Sample ID	N20	N20	N40	N40	N40	N40	N40	N40	N60	N60
					sample_type_code	N	N	FD	N	FD	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	N20(0-0.5)-070113-1	N20(1-2)-070113-1	N40(0-0.5)-070113-2	N40(0-0.5)-070113-1	N40(1-2-070113-2	N40(1-2)-070113-1	N40(2-4)-070113-1	N40(4-6)-070113-1	N60(0-0.5)-070113-1	N60(1-2)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.0839	< 0.0527 U	4.63 D	4.98 D	2.11	1.79 D	0.115	0.524	< 0.0629 U	8.90 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0505 U	< 0.0527 U	< 0.0528 U	< 0.0543 U	< 0.0526 U	< 0.0525 U	< 0.0518 U	< 0.0570 U	< 0.0629 U	< 0.0585 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.0839	< 0.0527 U	4.63	4.98	2.11	1.79	0.115	0.524	< 0.0629 U	8.90

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BASF - 180 Mill Street
Cranston, RI

					Sample ID	N60	N60	N80	N80	N80	N80	NN00	NN20	O0	O0
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	6/24/2013	6/24/2013	7/1/2013	7/1/2013
					depth_interval	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	N60(2-4)-070113-1	N60(4-6)-070113-1	N80(0-0.5)-070113-1	N80(1-2)-070113-1	N80(2-4)-070113-1	N80(4-6)-070113-1	NN00(0-0.5)-062413-1	NN20(0-0.5)-062413-1	O0(0-0.5)-070113-1	O0(1-2)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	0.332	0.169	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	3.50	0.407	0.132	0.402	0.206	0.524	0.853	0.498	0.124	3.84 D
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0548 U	< 0.0523 U	< 0.0527 U	< 0.0540 U	< 0.0554 U	< 0.0556 U	< 0.0531 U	< 0.0511 U	< 0.0512 U	< 0.0538 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	3.50	0.407	0.132	0.402	0.538	0.693	0.853	0.498	0.124	3.84

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	O0	O0	O20	O20	O40	O40	O60	O60	O60	O60
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
					depth_interval	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	O0(2-4)-070113-1	O0(4-6)-070113-1	O20(0-0.5)-070113-1	O20(1-2)-070113-1	O40(0-0.5)-07113-1	O40(1-2)-070113-1	O60(0-0.5)-070113-1	O60(1-2)-070113-1	O60(2-4)-070113-1	O60(4-6)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.725	1.49	< 0.0503 U	**14.2**	< 0.0542 U	0.306	0.169	2.44	0.301	0.900
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0523 U	< 0.0557 U	< 0.0503 U	< 1.07 U	< 0.0542 U	< 0.0611 U	< 0.0569 U	< 0.0501 U	< 0.0528 U	< 0.0555 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.725	1.49	< 0.0503 U	**14.2**	< 0.0542 U	0.306	0.169	2.44	0.301	0.900

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	O80	O80	OO00	P0	P0	P0	P0	P20	P20	P20
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	1/16/2014	1/16/2014	6/24/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013
					depth_interval	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	O80 0-0.5 - 011614-1	O80 1-2 - 011614-1	OO00(0-0.5)-062413-1	P0(0-0.5)-070113-1	P0(1-2)-070113-1	P0(2-4)-070113-1	P0(4-6)-070113-1	P20(0-0.5)-070113-1	P20(1-2)-070113-1	P20(2-4)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	2.29	0.678	0.284	6.05	2.03	0.442	< 0.0579 U	0.274	**19.6**	4.31
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	0.802	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0608 U	< 0.0566 U	< 0.0524 U	< 0.0515 U	< 0.0513 U	< 0.0529 U	< 0.0579 U	< 0.0523 U	< 2.61 U	< 0.0587 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	2.29	0.678	0.284	6.05	2.03	0.442	0.802	0.274	**19.6**	4.31

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Draft Table F-3
SRI Addendum PCB Grid Sampling Results, June 2013 - January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	P20	P40	P40	P60	P60	P60	P60	P80	PP00	Q0
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	1/16/2014	6/25/2013	7/1/2013
					depth_interval	4 - 5.5 ft	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	P20(4-5.5)-070113-1	P40(1-2)-070113-1	P40(2-4)-070113-1	P60(0-0.5)-070113-1	P60(1-2)-070113-1	P60(2-4)-070113-1	P60(4-6)-070113-1	P80 0-0.5 - 011614-1	PP00(0-0.5)-062513-1	Q0(0-0.5)-070113-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	2.42	< 0.0534 U	**16.0**	1.21	4.06	0.912	4.29	< 0.0543 U	< 0.0519 U	**11.2**
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0572 U	< 0.0534 U	< 1.11 U	< 0.0559 U	< 0.0531 U	< 0.0526 U	< 0.0561 U	< 0.0543 U	< 0.0519 U	< 1.07 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	2.42	< 0.0534 U	**16.0**	1.21	4.06	0.912	4.29	< 0.0543 U	< 0.0519 U	**11.2**

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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	Q0	Q0	Q20	Q20	Q20	Q20	Q60	Q60	Q80	Q80
					sample_type_code	N	N	N	N	N	N	N	N	N	N
					Sample Date	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	7/1/2013	1/16/2014	1/16/2014
					depth_interval	1 - 2 ft	2 - 4 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	0 - 0.5 ft	1 - 2 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	Q0(1-2)-070113-1	Q0(2-4)-070113-1	Q20(0-0.5)-070113-1	Q20(1-2)-070113-1	Q20(2-4)-070113-1	Q20(4-6)-070113-1	Q60(0-0.5)-070113-1	Q60(1-2)-070113-1	Q80 0-0.5 - 011614-1	Q80 1-2 - 011614-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**										
SW8082	AROCLOR-1016	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	**49.2**	**19.8**	0.125	3.48	0.809	0.209	4.71	2.52	0.315	< 0.0561 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 2.96 U	< 2.82 U	< 0.0519 U	< 0.0529 U	< 0.0525 U	< 0.0542 U	< 0.0579 U	< 0.0509 U	< 0.0639 U	< 0.0561 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	**49.2**	**19.8**	0.125	3.48	0.809	0.209	4.71	2.52	0.315	< 0.0561 U

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Draft Table F-3
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BASF - 180 Mill Street
Cranston, RI

					Sample ID	QQ00	QQ20	R60	R60	R60	R60	RR00
					sample_type_code	N	FD	N	N	N	N	N
					Sample Date	6/25/2013	6/25/2013	1/16/2014	1/16/2014	1/16/2014	1/16/2014	6/25/2013
					depth_interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	QQ00(0-0.5)-062513-1	QQ20(0-0.5)-062513-2	R60 0-0.5 - 011614-1	R60 1-2 - 011614-1	R60 2-4 011614-1	R60 4-6 011614-1	RR00(0-0.5)-062513-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**							
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	AROCLOR-1248	**10**	**10**		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	0.461
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.0685	0.0627	6.85	2.77	0.129	0.0630	< 0.0506 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0522 U	< 0.0530 U	< 0.0652 U	< 0.0552 U	< 0.0523 U	< 0.0575 U	< 0.0506 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.0685	0.0627	6.85	2.77	0.129	0.0630	0.461

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Draft Table F-4
SRI Addendum Grid Sampling Results - Residual Source VOCs, January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	E280	E280	E280	E280	E300	E300	E300	E300	E300
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	E280 0-0.5 - 010914-1	E280 1-2 - 010914-1	E280 2-4 - 010914-1	E280 4-6 - 010914-1	E300 0-0.5 - 010914-1	E300 1-2 - 010914-1	E300 2-4 - 010914-1	E300 4-6 - 010914-1	E300 4-6 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8082	AROCLOR-1016	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1221	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1232	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1242	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1248	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1254	**10**	**10**		mg/kg	0.817	**101**	< 1.19 U	< 0.562 U	0.0826	7.79	**32.0**		< 1.07 U
SW8082	AROCLOR-1260	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1262	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	AROCLOR-1268	10	10		mg/kg	< 0.0576 U	< 5.96 U	< 1.19 U	< 0.562 U	< 0.0500 U	< 1.10 U	< 2.82 U		< 1.07 U
SW8082	Total PCB Aroclors	**10**	**10**	**50**	mg/kg	0.817	**101**	< 1.19 U	< 0.562 U	0.0826	7.79	**32.0**		< 1.07 U
SW8260B	1,1,1-TRICHLOROETHANE (TCA)	540	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,1,2,2-TETRACHLOROETHANE	1.3	29		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,1,2-TRICHLOROETHANE	3.6	100		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,1-DICHLOROETHANE	920	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,1-DICHLOROETHENE	0.2	9.5		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,2,3-TRICHLOROBENZENE	96	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,2,4-TRICHLOROBENZENE	96	10000		mg/kg		0.609	24.6	17.4				17.4	
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	0.5	4.1		mg/kg		< 0.369 U	< 37.2 U	< 48.9 U				< 33.0 U	
SW8260B	1,2-DIBROMOETHANE (EDB)	0.01	0.07		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,2-DICHLOROBENZENE	510	10000		mg/kg		< 0.0615 U	2.73	< 8.15 U				71.1	
SW8260B	1,2-DICHLOROETHANE	0.9	63		mg/kg		0.437	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,2-DICHLOROPROPANE	1.9	84		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,3-DICHLOROBENZENE	430	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,4-DICHLOROBENZENE	27	240		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	1,4-Dioxane				mg/kg		< 6.15 U	< 620 U	< 815 U				< 551 U	
SW8260B	2-BUTANONE (MEK)	10000	10000		mg/kg		< 1.54 U	< 155 U	< 204 U				< 138 U	
SW8260B	2-CHLOROTOLUENE	**210**	**10000**		mg/kg		13.8	**18900**	**3560**				**21300**	
SW8260B	2-HEXANONE				mg/kg		< 0.615 U	< 62.0 U	< 81.5 U				< 55.1 U	
SW8260B	4-METHYL-2-PENTANONE (MIBK)	1200	10000		mg/kg		< 0.615 U	< 62.0 U	< 81.5 U				< 55.1 U	
SW8260B	ACETONE	7800	10000		mg/kg		< 1.54 U	< 155 U	< 204 U				< 138 U	
SW8260B	BENZENE	2.5	200		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	BROMODICHLOROMETHANE	10	92		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	BROMOFORM	81	720		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	BROMOMETHANE	0.8	2900		mg/kg		< 0.123 U	< 12.4 U	< 16.3 U				< 11.0 U	
SW8260B	CARBON DISULFIDE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	CARBON TETRACHLORIDE	1.5	44		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	CHLOROBENZENE	210	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				43.0	
SW8260B	CHLOROBROMOMETHANE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	CHLOROETHANE				mg/kg		< 0.123 U	< 12.4 U	< 16.3 U				< 11.0 U	
SW8260B	CHLOROFORM	1.2	940		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	CHLOROMETHANE				mg/kg		< 0.123 U	< 12.4 U	< 16.3 U				< 11.0 U	
SW8260B	CIS-1,2-DICHLOROETHENE	630	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	CIS-1,3-DICHLOROPROPENE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	CYCLOHEXANE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	DIBROMOCHLOROMETHANE	7.6	68		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	DICHLORODIFLUOROMETHANE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	ETHYLBENZENE	71	10000		mg/kg		0.0283	7.20	< 8.15 U				28.0	
SW8260B	ISOPROPYLBENZENE	27	10000		mg/kg		< 0.0615 U	3.10	< 8.15 U				11.1	
SW8260B	METHYL ACETATE				mg/kg		< 0.615 U	< 62.0 U	< 81.5 U				< 55.1 U	
SW8260B	METHYL TERT-BUTYL ETHER	390	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	METHYLCYCLOHEXANE				mg/kg		0.172	< 6.20 U	< 8.15 U				15.8	
SW8260B	METHYLENE CHLORIDE	45	760		mg/kg		< 0.308 U	< 31.0 U	< 40.7 U				< 27.5 U	
SW8260B	m-Xylene & p-Xylene				mg/kg		0.141	89.0	24.6				195	
SW8260B	O-XYLENE				mg/kg		0.0344	40.1	9.61				72.7	
SW8260B	STYRENE	13	190		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	TETRACHLOROETHENE (PCE)	12	110		mg/kg		0.0689	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	TOLUENE	**190**	10000		mg/kg		0.344	97.8	11.2				**811**	

Draft Table F-4
SRI Addendum Grid Sampling Results - Residual Source VOCs, January 2014
BASF - 180 Mill Street
Cranston, RI

					Sample ID	E280	E280	E280	E280	E300	E300	E300	E300	E300
					sample_type_code	N	N	N	N	N	N	N	N	N
					Sample Date	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014	1/9/2014
					depth_interval	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 0.5 ft	1 - 2 ft	2 - 4 ft	4 - 6 ft	4 - 6 ft
					matrix_code	SO	SO	SO	SO	SO	SO	SO	SO	SO
					sys_sample_code	E280 0-0.5 - 010914-1	E280 1-2 - 010914-1	E280 2-4 - 010914-1	E280 4-6 - 010914-1	E300 0-0.5 - 010914-1	E300 1-2 - 010914-1	E300 2-4 - 010914-1	E300 4-6 - 010914-1	E300 4-6 010914-1
Analytical Method	**Chemical**	**RES DEC**	**I/C DEC**	**MPS**	**Units**									
SW8260B	TRANS-1,2-DICHLOROETHENE	1100	10000		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	TRANS-1,3-DICHLOROPROPENE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	TRICHLOROETHYLENE	13	520		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	TRICHLOROFLUOROMETHANE				mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	
SW8260B	VINYL CHLORIDE	0.02	3		mg/kg		< 0.0615 U	< 6.20 U	< 8.15 U				< 5.51 U	

Notes
< indicates not detected above detection limits
U = not detected above detection limits
D = Dilution
RES DEC = Rhode Island Department of Environmental Management Residential Direct Contact Criteria in Soil
I/C DEC = Rhode Island Department of Environmental Management Industrial/Commercial Direct Contact Criteria in Soil
MPS = Media Protection Standard developed for Site-specific soil
Indicates exceedance of Media Protection Standards
Indicates exceedance of RIDEM Residential Direct Exposure Criteria
Indicates exceedance of RIDEM Industrial/Commercial Direct Exposure Criteria

Table F-5
Summary of Indoor Air, Outdoor Air and Sub-Slab Vapor Results and Comparison to USEPA Vapor Intrusion Screening Levels
BASF - Northern Parcel, 118 Mill Street
Cranston, RI

						Building/Location	Building 15			
						Location ID	B15-SG1		B15-SG2	
						Sample Type	Indoor Air	Sub-Slab Vapor	Indoor Air	Sub-Slab Vapor
						Sample ID	SB83436	SB83436	SB83436	SB83436
						Sample ID	B15-SG1-AA_01162014	B15-SG1-SS_01162014	B15-SG2-AA_01162014	B15-SG2-SS_01162014
						Sample Date	1/16/2014	1/16/2014	1/16/2014	1/16/2014
Analytical Method	CAS	Chemical	Units	USEPA Commercial Indoor Air VISLs (a)	USEPA Commerical Sub-Slab Vapor VISLs (a)					
TO15	630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/m3	1.66	16.57		< 3.44 U	< 3.44 U	< 3.44 U	< 3.44 U
TO15	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	ug/m3	21900	219000		< 2.73 U	**7.75**	< 2.73 U	**8.35**
TO15	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.21	2.11		< 3.43 U	< 3.43 U	< 3.43 U	< 3.43 U
TO15	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	131400	1314000		< 3.83 U	< 3.83 U	< 3.83 U	< 3.83 U
TO15	79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.77	7.67		< 2.73 U	< 2.73 U	< 2.73 U	< 2.73 U
TO15	75-34-3	1,1-DICHLOROETHANE	ug/m3	7.67	76.65		< 2.02 U	< 2.02 U	< 2.02 U	< 2.02 U
TO15	75-35-4	1,1-DICHLOROETHENE	ug/m3	876	8760		< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
TO15	120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	8.76	87.60		< 3.71 U	< 3.71 U	< 3.71 U	< 3.71 U
TO15	95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	30.7	306.6		< 2.46 U	**2.56**	< 2.46 U	< 2.46 U
TO15	106-93-4	1,2-DIBROMOETHANE (EDB)	ug/m3	0.02	0.20		< 3.84 U	< 3.84 U	< 3.84 U	< 3.84 U
TO15	95-50-1	1,2-DICHLOROBENZENE	ug/m3	876	8760		< 3.01 U	< 3.01 U	< 3.01 U	< 3.01 U
TO15	107-06-2	1,2-DICHLOROETHANE	ug/m3	0.47	4.72		< 2.02 U	< 2.02 U	< 2.02 U	< 2.02 U
TO15	78-87-5	1,2-DICHLOROPROPANE	ug/m3	1.23	12.26		< 2.31 U	< 2.31 U	< 2.31 U	< 2.31 U
TO15	76-14-2	1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	ug/m3	438 (f)	4380 (f)		< 3.49 U	< 3.49 U	< 3.49 U	< 3.49 U
TO15	108-67-8	1,3,5-TRIMETHYLBENZENE	ug/m3	NA	NA		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	106-99-0	1,3-BUTADIENE	ug/m3	0.41	4.09		< 1.10 U	< 1.10 U	< 1.10 U	< 1.10 U
TO15	541-73-1	1,3-DICHLOROBENZENE	ug/m3	1.11 (d)	11.15 (d)		< 3.01 U	< 3.01 U	< 3.01 U	< 3.01 U
TO15	106-46-7	1,4-DICHLOROBENZENE	ug/m3	1.11	11.15		< 3.01 U	< 3.01 U	< 3.01 U	< 3.01 U
TO15	123-91-1	1,4-DIOXANE	ug/m3	NA	NA		< 1.80 U	< 1.80 U	< 1.80 U	< 1.80 U
TO15	78-93-3	2-BUTANONE (MEK)	ug/m3	21900	219000		< 1.47 U	< 1.47 U	< 1.47 U	**10.11**
TO15	591-78-6	2-HEXANONE	ug/m3	131.4	1314.0		< 2.05 U	< 2.05 U	< 2.05 U	< 2.05 U
TO15	135-98-8	2-PHENYLBUTANE	ug/m3	NA	NA		< 2.74 U	< 2.74 U	< 2.74 U	< 2.74 U
TO15	622-96-8	4-ETHYLTOLUENE	ug/m3	4.91 (e)	49.06 (e)		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	108-10-1	4-METHYL-2-PENTANONE (MIBK)	ug/m3	13140	131400		< 2.05 U	< 2.05 U	< 2.05 U	**5.49**
TO15	67-64-1	ACETONE	ug/m3	135780	1357800		**10.15**	**26.85**	**14.5**	**62.73**
TO15	107-13-1	ACRYLONITRILE	ug/m3	0.18	1.80		< 1.08 U	< 1.08 U	< 1.08 U	< 1.08 U
TO15	71-43-2	BENZENE	ug/m3	1.57	15.72		**2.65**	< 1.60 U	**1.91**	< 1.60 U
TO15	100-44-7	BENZYL CHLORIDE	ug/m3	0.25	2.50		< 2.58 U	< 2.58 U	< 2.58 U	< 2.58 U
TO15	75-27-4	BROMODICHLOROMETHANE	ug/m3	0.33	3.31		< 3.35 U	< 3.35 U	< 3.35 U	< 3.35 U
TO15	75-25-2	BROMOFORM	ug/m3	NA	NA		< 5.17 U	< 5.17 U	< 5.17 U	< 5.17 U
TO15	74-83-9	BROMOMETHANE	ug/m3	21.9	219.0		< 1.94 U	< 1.94 U	< 1.94 U	< 1.94 U
TO15	75-15-0	CARBON DISULFIDE	ug/m3	3066	30660		< 1.56 U	< 1.56 U	< 1.56 U	< 1.56 U
TO15	56-23-5	CARBON TETRACHLORIDE	ug/m3	2.04	20.44		< 3.15 U	< 3.15 U	< 3.15 U	< 3.15 U
TO15	108-90-7	CHLOROBENZENE	ug/m3	219	2190		< 2.30 U	< 2.30 U	< 2.30 U	< 2.30 U
TO15	75-00-3	CHLOROETHANE	ug/m3	43800	438000		< 1.32 U	< 1.32 U	< 1.32 U	< 1.32 U
TO15	67-66-3	CHLOROFORM	ug/m3	0.53	5.33		< 2.43 U	**18.79**	< 2.43 U	**7.64**
TO15	74-87-3	CHLOROMETHANE	ug/m3	394.20	3942.00		< 1.03 U	< 1.03 U	**1.07**	< 1.03 U
TO15	156-59-2	CIS-1,2-DICHLOROETHENE	ug/m3	NA	NA		< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
TO15	10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	3.07 (b)	30.66 (b)		< 2.27 U	< 2.27 U	< 2.27 U	< 2.27 U
TO15	110-82-7	CYCLOHEXANE	ug/m3	26280	262800		< 1.72 U	< 1.72 U	< 1.72 U	< 1.72 U
TO15	99-87-6	CYMENE	ug/m3	1752 (g)	17520 (g)		< 2.68 U	< 2.68 U	< 2.68 U	< 2.68 U
TO15	124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.45	4.54		< 4.26 U	< 4.26 U	< 4.26 U	< 4.26 U
TO15	75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	438	4380		**2.97**	**2.77**	**3.16**	**2.77**
TO15	64-17-5	ETHANOL	ug/m3	NA	NA		**17.78**	**32.05**	**1.89**	**10.29**
TO15	141-78-6	ETHYL ACETATE	ug/m3	306.6	3066.0		< 1.80 U	< 1.80 U	< 1.80 U	< 1.80 U
TO15	100-41-4	ETHYLBENZENE	ug/m3	4.91	49.06		< 2.17 U	**60.7**	< 2.17 U	< 2.17 U
TO15	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/m3	NA	NA		< 5.33 U	< 5.33 U	< 5.33 U	< 5.33 U
TO15	110-54-3	HEXANE	ug/m3	3066	30660		< 1.76 U	< 1.76 U	< 1.76 U	< 1.76 U
TO15	67-63-0	ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID)	ug/m3	NA	NA		**6.85**	< 1.23 U	**1.74**	**3.29**

Table F-5
Summary of Indoor Air, Outdoor Air and Sub-Slab Vapor Results and Comparison to USEPA Vapor Intrusion Screening Levels
BASF - Northern Parcel, 118 Mill Street
Cranston, RI

						Building/Location	Building 15			
						Location ID	B15-SG1		B15-SG2	
						Sample Type	Indoor Air	Sub-Slab Vapor	Indoor Air	Sub-Slab Vapor
						Sample ID	SB83436	SB83436	SB83436	SB83436
						Sample ID	B15-SG1-AA_01162014	B15-SG1-SS_01162014	B15-SG2-AA_01162014	B15-SG2-SS_01162014
						Sample Date	1/16/2014	1/16/2014	1/16/2014	1/16/2014
Analytical Method	CAS	Chemical	Units	USEPA Commercial Indoor Air VISLs (a)	USEPA Commerical Sub-Slab Vapor VISLs (a)					
TO15	98-82-8	ISOPROPYLBENZENE	ug/m3	1752	17520		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	1634-04-4	METHYL TERT-BUTYL ETHER	ug/m3	47.17	471.69		< 1.80 U	< 1.80 U	< 1.80 U	< 1.80 U
TO15	75-09-2	METHYLENE CHLORIDE	ug/m3	1226	12264		< 1.74 U	< 1.74 U	< 1.74 U	< 1.74 U
TO15	MPXYLENE	m-XYLENE & p-XYLENE	ug/m3	438 (h)	4380 (h)		< 4.34 U	**277.46**	< 4.34 U	< 4.34 U
TO15	91-20-3	NAPHTHALENE	ug/m3	0.36	3.61		< 2.62 U	< 2.62 U	< 2.62 U	< 2.62 U
TO15	104-51-8	N-BUTYLBENZENE	ug/m3	NA	NA		< 2.74 U	< 2.74 U	< 2.74 U	< 2.74 U
TO15	142-82-5	N-HEPTANE	ug/m3	3066 (c)	30660 (c)		< 2.05 U	< 2.05 U	< 2.05 U	< 2.05 U
TO15	95-47-6	O-XYLENE	ug/m3	438	4380		< 2.17 U	**114.89**	< 2.17 U	< 2.17 U
TO15	115-07-1	PROPYLENE (PROPENE)	ug/m3	13140	131400		< 0.86 U	< 0.86 U	< 0.86 U	< 0.86 U
TO15	100-42-5	STYRENE	ug/m3	4380	43800		< 2.13 U	< 2.13 U	< 2.13 U	< 2.13 U
TO15	127-18-4	TETRACHLOROETHENE (PCE)	ug/m3	47.17	471.69		< 3.39 U	**20.14**	< 3.39 U	**6.04**
TO15	109-99-9	TETRAHYDROFURAN	ug/m3	8760	87600		< 1.47 U	< 1.47 U	< 1.47 U	< 1.47 U
TO15	108-88-3	TOLUENE	ug/m3	21900	219000		**5.72**	< 1.88 U	**3.84**	< 1.88 U
TO15	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	262.8	2628.0		< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
TO15	10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	3.07 (b)	30.66 (b)		< 2.27 U	< 2.27 U	< 2.27 U	< 2.27 U
TO15	79-01-6	TRICHLOROETHYLENE	ug/m3	2.99	29.91		< 2.69 U	< 2.69 U	< 2.69 U	< 2.69 U
TO15	75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	3066	30660		< 2.81 U	< 2.81 U	< 2.81 U	< 2.81 U
TO15	75-01-4	VINYL CHLORIDE	ug/m3	2.79	27.87		< 1.28 U	< 1.28 U	< 1.28 U	< 1.28 U

Notes:
< = Not detected above reporting detection limit.
CAS = Chemical Abstracts Service.
D = Dilution.
NA = Not available.
U = not detected above reporting detection limit.
USEPA = United States Environmental Protection Agency.
ug/m3 = micrograms per cubic meter.
VISL = Vapor Intrusion Screening Level.
> USEPA Commercial Target Indoor Air VISLs.
> USEPA Commerical Target Sub-Slab Vapor VISLs.
Bolding indicates detected concentrations above reporting detection limits.
(a) USEPA Vapor Intrusion Screening Level Calculator Version 3.2, November 2013 RSLs.
Based on a target risk of 1x10-6 and target hazard quotient of 1.
(b) Value for 1,3- dichloropropene used due to structural similarities.
(c) Value for hexane used due to structural similarities.
(d) Value for 1,4-dichlorobenzene used due to structural similarities.
(e) Value for ethylbenzene used due to structural similarities.
(f) Value for dichlorodifluoromethane used due to structural similarities.
(g) Value for cumene used due to structural similarities.
(h) Value for m-xylene used due to structural similarities.

Table F-5
Summary of Indoor Air, Outdoor Air and Sub-Slab Vapor Results and Comparison to USEPA Vapor Intrusion Screening Levels
BASF - Northern Parcel, 118 Mill Street
Cranston, RI

						Building/Location	Building 25		Building 20	
						Location ID	B25-SG1	B25-SG2	B20-SG1	B20-SG2
						Sample Type	Indoor Air	Indoor Air	Indoor Air	Indoor Air
						Sample ID	SB83436	SB83436	SB83436	SB83436
						Sample ID	B25-SG1-AA_01162014	B25-SG2-AA_01162014	B20-SG1-AA_01162014	B20-SG2-AA_01162014
						Sample Date	1/16/2014	1/16/2014	1/16/2014	1/16/2014
Analytical Method	CAS	Chemical	Units	USEPA Commercial Indoor Air VISLs (a)	USEPA Commerical Sub-Slab Vapor VISLs (a)					
TO15	630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/m3	1.66	16.57		< 3.44 U	< 3.44 U	< 3.44 U	< 3.44 U
TO15	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	ug/m3	21900	219000		< 2.73 U	< 2.73 U	< 2.73 U	< 2.73 U
TO15	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.21	2.11		< 3.43 U	< 3.43 U	< 3.43 U	< 3.43 U
TO15	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	131400	1314000		< 3.83 U	< 3.83 U	< 3.83 U	< 3.83 U
TO15	79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.77	7.67		< 2.73 U	< 2.73 U	< 2.73 U	< 2.73 U
TO15	75-34-3	1,1-DICHLOROETHANE	ug/m3	7.67	76.65		< 2.02 U	< 2.02 U	< 2.02 U	< 2.02 U
TO15	75-35-4	1,1-DICHLOROETHENE	ug/m3	876	8760		< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
TO15	120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	8.76	87.60		< 3.71 U	< 3.71 U	< 3.71 U	< 3.71 U
TO15	95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	30.7	306.6		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	106-93-4	1,2-DIBROMOETHANE (EDB)	ug/m3	0.02	0.20		< 3.84 U	< 3.84 U	< 3.84 U	< 3.84 U
TO15	95-50-1	1,2-DICHLOROBENZENE	ug/m3	876	8760		< 3.01 U	< 3.01 U	< 3.01 U	< 3.01 U
TO15	107-06-2	1,2-DICHLOROETHANE	ug/m3	0.47	4.72		< 2.02 U	< 2.02 U	< 2.02 U	< 2.02 U
TO15	78-87-5	1,2-DICHLOROPROPANE	ug/m3	1.23	12.26		< 2.31 U	< 2.31 U	< 2.31 U	< 2.31 U
TO15	76-14-2	1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	ug/m3	438 (f)	4380 (f)		< 3.49 U	< 3.49 U	< 3.49 U	< 3.49 U
TO15	108-67-8	1,3,5-TRIMETHYLBENZENE	ug/m3	NA	NA		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	106-99-0	1,3-BUTADIENE	ug/m3	0.41	4.09		< 1.10 U	< 1.10 U	< 1.10 U	< 1.10 U
TO15	541-73-1	1,3-DICHLOROBENZENE	ug/m3	1.11 (d)	11.15 (d)		< 3.01 U	< 3.01 U	< 3.01 U	< 3.01 U
TO15	106-46-7	1,4-DICHLOROBENZENE	ug/m3	1.11	11.15		< 3.01 U	< 3.01 U	< 3.01 U	< 3.01 U
TO15	123-91-1	1,4-DIOXANE	ug/m3	NA	NA		< 1.80 U	< 1.80 U	< 1.80 U	< 1.80 U
TO15	78-93-3	2-BUTANONE (MEK)	ug/m3	21900	219000		< 1.47 U	**3.18**	< 1.47 U	< 1.47 U
TO15	591-78-6	2-HEXANONE	ug/m3	131.4	1314.0		< 2.05 U	< 2.05 U	< 2.05 U	< 2.05 U
TO15	135-98-8	2-PHENYLBUTANE	ug/m3	NA	NA		< 2.74 U	< 2.74 U	< 2.74 U	< 2.74 U
TO15	622-96-8	4-ETHYLTOLUENE	ug/m3	4.91 (e)	49.06 (e)		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	108-10-1	4-METHYL-2-PENTANONE (MIBK)	ug/m3	13140	131400		< 2.05 U	< 2.05 U	< 2.05 U	< 2.05 U
TO15	67-64-1	ACETONE	ug/m3	135780	1357800		< 1.19 U	**15.92**	**11.83**	**8.82**
TO15	107-13-1	ACRYLONITRILE	ug/m3	0.18	1.80		< 1.08 U	< 1.08 U	< 1.08 U	< 1.08 U
TO15	71-43-2	BENZENE	ug/m3	1.57	15.72		< 1.60 U	< 1.60 U	**1.75**	**2.04**
TO15	100-44-7	BENZYL CHLORIDE	ug/m3	0.25	2.50		< 2.58 U	< 2.58 U	< 2.58 U	< 2.58 U
TO15	75-27-4	BROMODICHLOROMETHANE	ug/m3	0.33	3.31		< 3.35 U	< 3.35 U	< 3.35 U	< 3.35 U
TO15	75-25-2	BROMOFORM	ug/m3	NA	NA		< 5.17 U	< 5.17 U	< 5.17 U	< 5.17 U
TO15	74-83-9	BROMOMETHANE	ug/m3	21.9	219.0		< 1.94 U	< 1.94 U	< 1.94 U	< 1.94 U
TO15	75-15-0	CARBON DISULFIDE	ug/m3	3066	30660		< 1.56 U	< 1.56 U	< 1.56 U	< 1.56 U
TO15	56-23-5	CARBON TETRACHLORIDE	ug/m3	2.04	20.44		< 3.15 U	< 3.15 U	< 3.15 U	< 3.15 U
TO15	108-90-7	CHLOROBENZENE	ug/m3	219	2190		< 2.30 U	< 2.30 U	< 2.30 U	< 2.30 U
TO15	75-00-3	CHLOROETHANE	ug/m3	43800	438000		< 1.32 U	< 1.32 U	< 1.32 U	< 1.32 U
TO15	67-66-3	CHLOROFORM	ug/m3	0.53	5.33		< 2.43 U	< 2.43 U	**11.24**	**5.31**
TO15	74-87-3	CHLOROMETHANE	ug/m3	394.20	3942.00		**1.12**	< 1.03 U	< 1.03 U	< 1.03 U
TO15	156-59-2	CIS-1,2-DICHLOROETHENE	ug/m3	NA	NA		< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
TO15	10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	3.07 (b)	30.66 (b)		< 2.27 U	< 2.27 U	< 2.27 U	< 2.27 U
TO15	110-82-7	CYCLOHEXANE	ug/m3	26280	262800		< 1.72 U	< 1.72 U	< 1.72 U	< 1.72 U
TO15	99-87-6	CYMENE	ug/m3	1752 (g)	17520 (g)		< 2.68 U	< 2.68 U	< 2.68 U	< 2.68 U
TO15	124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.45	4.54		< 4.26 U	< 4.26 U	< 4.26 U	< 4.26 U
TO15	75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	438	4380		**2.92**	**2.92**	**3.02**	**3.31**
TO15	64-17-5	ETHANOL	ug/m3	NA	NA		**1.89**	**38.84**	**4.6**	**6.58**
TO15	141-78-6	ETHYL ACETATE	ug/m3	306.6	3066.0		< 1.80 U	< 1.80 U	< 1.80 U	< 1.80 U
TO15	100-41-4	ETHYLBENZENE	ug/m3	4.91	49.06		< 2.17 U	< 2.17 U	< 2.17 U	< 2.17 U
TO15	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/m3	NA	NA		< 5.33 U	< 5.33 U	< 5.33 U	< 5.33 U
TO15	110-54-3	HEXANE	ug/m3	3066	30660		< 1.76 U	**83.2**	< 1.76 U	< 1.76 U
TO15	67-63-0	ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID)	ug/m3	NA	NA		< 1.23 U	**7.73**	**2.67**	**1.47**

Table F-5
Summary of Indoor Air, Outdoor Air and Sub-Slab Vapor Results and Comparison to USEPA Vapor Intrusion Screening Levels
BASF - Northern Parcel, 118 Mill Street
Cranston, RI

						Building/Location	Building 25		Building 20	
						Location ID	B25-SG1	B25-SG2	B20-SG1	B20-SG2
						Sample Type	Indoor Air	Indoor Air	Indoor Air	Indoor Air
						Sample ID	SB83436	SB83436	SB83436	SB83436
						Sample ID	B25-SG1-AA_01162014	B25-SG2-AA_01162014	B20-SG1-AA_01162014	B20-SG2-AA_01162014
						Sample Date	1/16/2014	1/16/2014	1/16/2014	1/16/2014
Analytical Method	CAS	Chemical	Units	USEPA Commercial Indoor Air VISLs (a)	USEPA Commerical Sub-Slab Vapor VISLs (a)					
TO15	98-82-8	ISOPROPYLBENZENE	ug/m3	1752	17520		< 2.46 U	< 2.46 U	< 2.46 U	< 2.46 U
TO15	1634-04-4	METHYL TERT-BUTYL ETHER	ug/m3	47.17	471.69		< 1.80 U	< 1.80 U	< 1.80 U	< 1.80 U
TO15	75-09-2	METHYLENE CHLORIDE	ug/m3	1226	12264		< 1.74 U	**1.84**	< 1.74 U	< 1.74 U
TO15	MPXYLENE	m-XYLENE & p-XYLENE	ug/m3	438 (h)	4380 (h)		< 4.34 U	< 4.34 U	< 4.34 U	< 4.34 U
TO15	91-20-3	NAPHTHALENE	ug/m3	0.36	3.61		< 2.62 U	< 2.62 U	< 2.62 U	< 2.62 U
TO15	104-51-8	N-BUTYLBENZENE	ug/m3	NA	NA		< 2.74 U	< 2.74 U	< 2.74 U	< 2.74 U
TO15	142-82-5	N-HEPTANE	ug/m3	3066 (c)	30660 (c)		< 2.05 U	< 2.05 U	< 2.05 U	< 2.05 U
TO15	95-47-6	O-XYLENE	ug/m3	438	4380		< 2.17 U	< 2.17 U	< 2.17 U	< 2.17 U
TO15	115-07-1	PROPYLENE (PROPENE)	ug/m3	13140	131400		< 0.86 U	< 0.86 U	< 0.86 U	< 0.86 U
TO15	100-42-5	STYRENE	ug/m3	4380	43800		< 2.13 U	< 2.13 U	< 2.13 U	< 2.13 U
TO15	127-18-4	TETRACHLOROETHENE (PCE)	ug/m3	47.17	471.69		< 3.39 U	< 3.39 U	< 3.39 U	< 3.39 U
TO15	109-99-9	TETRAHYDROFURAN	ug/m3	8760	87600		< 1.47 U	< 1.47 U	< 1.47 U	< 1.47 U
TO15	108-88-3	TOLUENE	ug/m3	21900	219000		**3.27**	**3.16**	**3.8**	**4.06**
TO15	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	262.8	2628.0		< 1.98 U	< 1.98 U	< 1.98 U	< 1.98 U
TO15	10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	3.07 (b)	30.66 (b)		< 2.27 U	< 2.27 U	< 2.27 U	< 2.27 U
TO15	79-01-6	TRICHLOROETHYLENE	ug/m3	2.99	29.91		**6.83**	< 2.69 U	< 2.69 U	< 2.69 U
TO15	75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	3066	30660		< 2.81 U	< 2.81 U	< 2.81 U	< 2.81 U
TO15	75-01-4	VINYL CHLORIDE	ug/m3	2.79	27.87		< 1.28 U	< 1.28 U	< 1.28 U	< 1.28 U

Notes:
< = Not detected above reporting detection limit.
CAS = Chemical Abstracts Service.
D = Dilution.
NA = Not available.
U = not detected above reporting detection limit.
USEPA = United States Environmental Protection Agency.
ug/m3 = micrograms per cubic meter.
VISL = Vapor Intrusion Screening Level.
> USEPA Commercial Target Indoor Air VISLs.
> USEPA Commerical Target Sub-Slab Vapor VISLs.
Bolding indicates detected concentrations above reporting detection limits.
(a) USEPA Vapor Intrusion Screening Level Calculator Version 3.2, November 2013 RSLs.
Based on a target risk of 1x10-6 and target hazard quotient of 1.
(b) Value for 1,3- dichloropropene used due to structural similarities.
(c) Value for hexane used due to structural similarities.
(d) Value for 1,4-dichlorobenzene used due to structural similarities.
(e) Value for ethylbenzene used due to structural similarities.
(f) Value for dichlorodifluoromethane used due to structural similarities.
(g) Value for cumene used due to structural similarities.
(h) Value for m-xylene used due to structural similarities.

Table F-5
Summary of Indoor Air, Outdoor Air and Sub-Slab Vapor Results and Comparison to USEPA Vapor Intrusion Screening Levels
BASF - Northern Parcel, 118 Mill Street
Cranston, RI

						Building/Location	Building 26		NW Property Boundary	
						Location ID	B26-SG1	B26-SG2		
						Sample Type	Indoor Air	Indoor Air	Outdoor Air	Trip Blank
						Sample ID	SB83436	SB83436	SB83436	SB83436
						Sample ID	B26-SG1-AA_01162014	B26-SG2-AA_01162014	NE CORNER_01162014	TB01-SG-011614
						Sample Date	1/16/2014	1/16/2014	1/16/2014	1/16/2014
Analytical Method	CAS	Chemical	Units	USEPA Commercial Indoor Air VISLs (a)	USEPA Commerical Sub-Slab Vapor VISLs (a)					
TO15	630-20-6	1,1,1,2-TETRACHLOROETHANE	ug/m3	1.66	16.57		< 3.44 U	< 3.44 U	< 3.44 U	< 9.89 U
TO15	71-55-6	1,1,1-TRICHLOROETHANE (TCA)	ug/m3	21900	219000		< 2.73 U	< 2.73 U	< 2.73 U	< 7.86 U
TO15	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/m3	0.21	2.11		< 3.43 U	< 3.43 U	< 3.43 U	< 9.89 U
TO15	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/m3	131400	1314000		< 3.83 U	< 3.83 U	< 3.83 U	< 11.04 U
TO15	79-00-5	1,1,2-TRICHLOROETHANE	ug/m3	0.77	7.67		< 2.73 U	< 2.73 U	< 2.73 U	< 7.86 U
TO15	75-34-3	1,1-DICHLOROETHANE	ug/m3	7.67	76.65		< 2.02 U	< 2.02 U	< 2.02 U	< 5.83 U
TO15	75-35-4	1,1-DICHLOROETHENE	ug/m3	876	8760		< 1.98 U	< 1.98 U	< 1.98 U	< 5.71 U
TO15	120-82-1	1,2,4-TRICHLOROBENZENE	ug/m3	8.76	87.60		< 3.71 U	< 3.71 U	< 3.71 U	< 10.69 U
TO15	95-63-6	1,2,4-TRIMETHYLBENZENE	ug/m3	30.7	306.6		< 2.46 U	< 2.46 U	< 2.46 U	< 7.08 U
TO15	106-93-4	1,2-DIBROMOETHANE (EDB)	ug/m3	0.02	0.20		< 3.84 U	< 3.84 U	< 3.84 U	< 11.07 U
TO15	95-50-1	1,2-DICHLOROBENZENE	ug/m3	876	8760		< 3.01 U	< 3.01 U	< 3.01 U	< 8.66 U
TO15	107-06-2	1,2-DICHLOROETHANE	ug/m3	0.47	4.72		< 2.02 U	< 2.02 U	< 2.02 U	< 5.83 U
TO15	78-87-5	1,2-DICHLOROPROPANE	ug/m3	1.23	12.26		< 2.31 U	< 2.31 U	< 2.31 U	< 6.66 U
TO15	76-14-2	1,2-DICHLOROTETRAFLUOROETHANE;FLUOROCARBON 114	ug/m3	438 (f)	4380 (f)		< 3.49 U	< 3.49 U	< 3.49 U	< 10.07 U
TO15	108-67-8	1,3,5-TRIMETHYLBENZENE	ug/m3	NA	NA		< 2.46 U	< 2.46 U	< 2.46 U	< 7.08 U
TO15	106-99-0	1,3-BUTADIENE	ug/m3	0.41	4.09		< 1.10 U	< 1.10 U	< 1.10 U	< 3.18 U
TO15	541-73-1	1,3-DICHLOROBENZENE	ug/m3	1.11 (d)	11.15 (d)		< 3.01 U	< 3.01 U	< 3.01 U	< 8.66 U
TO15	106-46-7	1,4-DICHLOROBENZENE	ug/m3	1.11	11.15		< 3.01 U	< 3.01 U	< 3.01 U	< 8.66 U
TO15	123-91-1	1,4-DIOXANE	ug/m3	NA	NA		< 1.80 U	< 1.80 U	< 1.80 U	< 5.18 U
TO15	78-93-3	2-BUTANONE (MEK)	ug/m3	21900	219000		< 1.47 U	< 1.47 U	< 1.47 U	< 4.25 U
TO15	591-78-6	2-HEXANONE	ug/m3	131.4	1314.0		< 2.05 U	< 2.05 U	< 2.05 U	< 5.90 U
TO15	135-98-8	2-PHENYLBUTANE	ug/m3	NA	NA		< 2.74 U	< 2.74 U	< 2.74 U	< 7.90 U
TO15	622-96-8	4-ETHYLTOLUENE	ug/m3	4.91 (e)	49.06 (e)		< 2.46 U	< 2.46 U	< 2.46 U	< 7.08 U
TO15	108-10-1	4-METHYL-2-PENTANONE (MIBK)	ug/m3	13140	131400		< 2.05 U	< 2.05 U	< 2.05 U	< 5.90 U
TO15	67-64-1	ACETONE	ug/m3	135780	1357800		**14.78**	**11.45**	**14.71**	**78.65 D**
TO15	107-13-1	ACRYLONITRILE	ug/m3	0.18	1.80		< 1.08 U	< 1.08 U	< 1.08 U	< 3.12 U
TO15	71-43-2	BENZENE	ug/m3	1.57	15.72		**1.85**	**1.82**	**1.69**	< 4.59 U
TO15	100-44-7	BENZYL CHLORIDE	ug/m3	0.25	2.50		< 2.58 U	< 2.58 U	< 2.58 U	< 7.42 U
TO15	75-27-4	BROMODICHLOROMETHANE	ug/m3	0.33	3.31		< 3.35 U	< 3.35 U	< 3.35 U	< 9.65 U
TO15	75-25-2	BROMOFORM	ug/m3	NA	NA		< 5.17 U	< 5.17 U	< 5.17 U	< 14.88 U
TO15	74-83-9	BROMOMETHANE	ug/m3	21.9	219.0		< 1.94 U	< 1.94 U	< 1.94 U	< 5.59 U
TO15	75-15-0	CARBON DISULFIDE	ug/m3	3066	30660		< 1.56 U	**2.24**	< 1.56 U	< 4.48 U
TO15	56-23-5	CARBON TETRACHLORIDE	ug/m3	2.04	20.44		< 3.15 U	< 3.15 U	< 3.15 U	< 9.06 U
TO15	108-90-7	CHLOROBENZENE	ug/m3	219	2190		< 2.30 U	< 2.30 U	< 2.30 U	< 6.63 U
TO15	75-00-3	CHLOROETHANE	ug/m3	43800	438000		< 1.32 U	< 1.32 U	< 1.32 U	< 3.80 U
TO15	67-66-3	CHLOROFORM	ug/m3	0.53	5.33		**4.67**	**3.8**	< 2.43 U	< 7.01 U
TO15	74-87-3	CHLOROMETHANE	ug/m3	394.20	3942.00		< 1.03 U	< 1.03 U	**1.24**	< 2.97 U
TO15	156-59-2	CIS-1,2-DICHLOROETHENE	ug/m3	NA	NA		< 1.98 U	< 1.98 U	< 1.98 U	< 5.71 U
TO15	10061-01-5	CIS-1,3-DICHLOROPROPENE	ug/m3	3.07 (b)	30.66 (b)		< 2.27 U	< 2.27 U	< 2.27 U	< 6.54 U
TO15	110-82-7	CYCLOHEXANE	ug/m3	26280	262800		< 1.72 U	< 1.72 U	< 1.72 U	< 4.96 U
TO15	99-87-6	CYMENE	ug/m3	1752 (g)	17520 (g)		< 2.68 U	< 2.68 U	< 2.68 U	< 7.73 U
TO15	124-48-1	DIBROMOCHLOROMETHANE	ug/m3	0.45	4.54		< 4.26 U	< 4.26 U	< 4.26 U	< 12.27 U
TO15	75-71-8	DICHLORODIFLUOROMETHANE	ug/m3	438	4380		**3.12**	**3.07**	**3.16**	< 7.12 U
TO15	64-17-5	ETHANOL	ug/m3	NA	NA		**4.96**	**3.21**	**28.28**	**131.80 D**
TO15	141-78-6	ETHYL ACETATE	ug/m3	306.6	3066.0		< 1.80 U	< 1.80 U	< 1.80 U	< 5.19 U
TO15	100-41-4	ETHYLBENZENE	ug/m3	4.91	49.06		< 2.17 U	< 2.17 U	< 2.17 U	< 6.24 U
TO15	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/m3	NA	NA		< 5.33 U	< 5.33 U	< 5.33 U	< 15.35 U
TO15	110-54-3	HEXANE	ug/m3	3066	30660		< 1.76 U	< 1.76 U	< 1.76 U	117.40 D
TO15	67-63-0	ISOPROPYL ALCOHOL (MANUFACTURING-STRONG ACID)	ug/m3	NA	NA		**1.74**	**1.67**	**16.29**	**23.95 D**

Table F-5
Summary of Indoor Air, Outdoor Air and Sub-Slab Vapor Results and Comparison to USEPA Vapor Intrusion Screening Levels
BASF - Northern Parcel, 118 Mill Street
Cranston, RI

					Building/Location	Building 26		NW Property Boundary	
					Location ID	B26-SG1	B26-SG2		
					Sample Type	Indoor Air	Indoor Air	Outdoor Air	Trip Blank
					Sample ID	SB83436	SB83436	SB83436	SB83436
					Sample ID	B26-SG1-AA_01162014	B26-SG2-AA_01162014	NE CORNER_01162014	TB01-SG-011614
					Sample Date	1/16/2014	1/16/2014	1/16/2014	1/16/2014
Analytical Method	CAS	Chemical	Units	USEPA Commercial Indoor Air VISLs (a)	USEPA Commerical Sub-Slab Vapor VISLs (a)				
TO15	98-82-8	ISOPROPYLBENZENE	ug/m3	1752	17520	< 2.46 U	< 2.46 U	< 2.46 U	< 7.08 U
TO15	1634-04-4	METHYL TERT-BUTYL ETHER	ug/m3	47.17	471.69	< 1.80 U	< 1.80 U	< 1.80 U	< 5.19 U
TO15	75-09-2	METHYLENE CHLORIDE	ug/m3	1226	12264	< 1.74 U	< 1.74 U	< 1.74 U	**55.91 D**
TO15	MPXYLENE	m-XYLENE & p-XYLENE	ug/m3	438 (h)	4380 (h)	< 4.34 U	< 4.34 U	< 4.34 U	< 12.49 U
TO15	91-20-3	NAPHTHALENE	ug/m3	0.36	3.61	< 2.62 U	< 2.62 U	< 2.62 U	< 7.54 U
TO15	104-51-8	N-BUTYLBENZENE	ug/m3	NA	NA	< 2.74 U	< 2.74 U	< 2.74 U	< 7.90 U
TO15	142-82-5	N-HEPTANE	ug/m3	3066 (c)	30660 (c)	< 2.05 U	< 2.05 U	< 2.05 U	< 5.90 U
TO15	95-47-6	O-XYLENE	ug/m3	438	4380	< 2.17 U	< 2.17 U	< 2.17 U	< 6.24 U
TO15	115-07-1	PROPYLENE (PROPENE)	ug/m3	13140	131400	< 0.86 U	< 0.86 U	< 0.86 U	< 2.48 U
TO15	100-42-5	STYRENE	ug/m3	4380	43800	< 2.13 U	< 2.13 U	< 2.13 U	< 6.13 U
TO15	127-18-4	TETRACHLOROETHENE (PCE)	ug/m3	47.17	471.69	< 3.39 U	< 3.39 U	< 3.39 U	< 9.76 U
TO15	109-99-9	TETRAHYDROFURAN	ug/m3	8760	87600	< 1.47 U	< 1.47 U	< 1.47 U	< 4.25 U
TO15	108-88-3	TOLUENE	ug/m3	21900	219000	**3.91**	**3.65**	**3.61**	< 5.42 U
TO15	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/m3	262.8	2628.0	< 1.98 U	< 1.98 U	< 1.98 U	< 5.71 U
TO15	10061-02-6	TRANS-1,3-DICHLOROPROPENE	ug/m3	3.07 (b)	30.66 (b)	< 2.27 U	< 2.27 U	< 2.27 U	< 6.54 U
TO15	79-01-6	TRICHLOROETHYLENE	ug/m3	2.99	29.91	< 2.69 U	< 2.69 U	< 2.69 U	< 7.74 U
TO15	75-69-4	TRICHLOROFLUOROMETHANE	ug/m3	3066	30660	< 2.81 U	< 2.81 U	< 2.81 U	< 8.09 U
TO15	75-01-4	VINYL CHLORIDE	ug/m3	2.79	27.87	< 1.28 U	< 1.28 U	< 1.28 U	< 3.68 U

Notes:
< = Not detected above reporting detection limit.
CAS = Chemical Abstracts Service.
D = Dilution.
NA = Not available.
U = not detected above reporting detection limit.
USEPA = United States Environmental Protection Agency.
ug/m3 = micrograms per cubic meter.
VISL = Vapor Intrusion Screening Level.
> USEPA Commercial Target Indoor Air VISLs.
> USEPA Commerical Target Sub-Slab Vapor VISLs.
Bolding indicates detected concentrations above reporting detection limits.
(a) USEPA Vapor Intrusion Screening Level Calculator Version 3.2, November 2013 RSLs.
Based on a target risk of 1x10-6 and target hazard quotient of 1.
(b) Value for 1,3- dichloropropene used due to structural similarities.
(c) Value for hexane used due to structural similarities.
(d) Value for 1,4-dichlorobenzene used due to structural similarities.
(e) Value for ethylbenzene used due to structural similarities.
(f) Value for dichlorodifluoromethane used due to structural similarities.
(g) Value for cumene used due to structural similarities.
(h) Value for m-xylene used due to structural similarities.