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Region 2 RAC2
Remedial Action Contract

Revised Technical Memorandum – Summary of Existing Information and Data Gap Evaluation

Pierson's Creek Site

Remedial Investigation/ Feasibility Study

Newark, New Jersey

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624176

CDM Smith

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Acronyms

2,3,7,8-TCDD	2,3,7,8- tetrachlorodibenzo-p-dioxin
4,4'DDD	4,4'- dichlorodiphenyldichloroethane
4,4'DDE	4,4' -dichlorodiphenyldichloroethylene
4,4'DDT	4,4'- dichlorodiphenyltrichloroethane
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
ACM	asbestos containing material
ACO	Administrative Consent Order
AEC	area of environmental concern
amsl	above mean sea level
AOC	area of concern
ASD	Albert Steel Drum
BEE	baseline ecological evaluation
bgs	below ground surface
BMP	best management practice
BN	benzene
BTEX	benzene, toluene, ethylbenzene, xylene
CCE	Coca-Cola Enterprises
CDM Smith	CDM Federal Programs Corporation
CEA	Classification Exception Area
cfs	cubic feet second
CKD	cement kiln dust
COPEC	contaminant of potential ecological concern
CRTK	community-right-to-know
CSM	conceptual site model
CVOC	chlorinated VOC
DCA	dichloroethane
DCE	dichloroethene
DCSCC	direct contact soil cleanup criteria
DER	Declaration of Environmental Restriction
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
EAC	Effectiveness Analysis and Certification
ECRA	Environmental Cleanup and Responsibility Act
EDD	electronic data deliverable
ELM	Environmental Liability Management Inc.
EPA	United States Environmental Protection Agency
ESA	environmentally sensitive area
ESI	environmental site investigation
EWMA	Environmental Waste Management Associates, Inc.
FPRS	free product recovery system
FS	feasibility study
FWCPA	Federal Water Pollution Control Act
GIS	geographic information system
gpm	gallons per minute
GPR	ground penetrating radar
GWQS	groundwater quality standards
HF	historical fill

HRS	hazard ranking system
IDM	IDM Environmental Corp
IGW	impact to groundwater
Interport	Interport Maintenance Co., Inc.
ISRA	Industrial Site Recovery Act
Langan	Langan Engineering and Environmental Services, Inc.
LEL	lower explosive limit
Matrix	Matrix New World Engineering
mg/kg	milligram per kilogram
MNA	monitored natural attenuation
MOA	Memorandum of Agreement
NAPL	non-aqueous phase liquid
N.J.A.C.	New Jersey Administrative Code
NJBURC	New Jersey Bottling Urban Renewal Corporation
NJDEP	New Jersey Department of Environmental Protection
NJIT	New Jersey Institute of Technology
NJPDES	New Jersey Pollutant Discharge Elimination System
N.J.S.A.	New Jersey Statutes Annotated
NJTP	New Jersey Turnpike
NOP	Notice of Prosecution
NOV	Notice of Violation
NPL	National Priorities List
NRCP	Natural Remediation Compliance Program
NRDCSCC	non-residential direct contact soil cleanup criteria
NRHA	Newark Redevelopment and Housing Authority
NRHP	National Historic Preservation Act
NTCRA	non-time critical removal action
NY-NJ	New York-New Jersey
OOS	Offer of Settlement
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyls
PCE	tetrachloroethene
PCP	pentachlorophenol
PDC	Prentiss Drug & Chemical
PID	photoionization detector
ppb	part per billion
ppm	part per million
PRG	preliminary remediation goal
Pulaski	Pulaski Skyway Realty Corporation
PVSC	Passaic Valley Sewerage Commission
QAPP	quality assurance project plan
RA	remedial action
RAC	remedial action contract
RAO	response action outcome
RAPR	remedial action progress report
RAR	remedial action report
RAWP	remedial action work plan
RCA	recycled concrete aggregate
RCP	reinforced concrete pipe
RCRA	Resource Conservation and Recovery Act

RDCSCC	residential direct contact coil cleanup criteria
RFC	Rokeach Food Corporation
RI	remedial investigation
RIR	remedial investigation report
RIWP	remedial action work plan
ROD	Record of Decision
SCC	soil cleanup criteria
SCO	soil cleanup objective
SIM	selection ion monitoring
SPPP	stormwater pollution prevention plan
sq ft	square feet
SSG	sediment screening guidance
Summit	Summit Associates, Inc.
SVOC	semi-volatile organic compound
SWQS	surface water quality standards
TAL	target analyte list
TCE	trichloroethene
TCL	target compound list
TCLP	toxicity characteristic leaching procedure
TIC	tentatively identified compound
Tierra	Tierra Solutions Inc.
TMS	Tank Management Section
TOC	total organic carbon
TPH	total petroleum hydrocarbon
TRC	TRC Environmental Corporation
TRSR	technical requirements for site remediation
TSD	treatment, storage, and disposal
TTI	TTI Environmental, Inc.
USF	USF Red Star
USGS	United States Geological Survey
UST	underground storage tank
VOC	volatile organic compound
VOs	volatile organics
WA	work assignment
Wehran	Wehran Engineering
WRA	well restriction area
WWTP	wastewater treatment plant
YRCW	YRCW Enterprise Services, Inc.

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Section 1
Introduction

CDM Federal Programs Corporation (CDM Smith) received Work Assignment (WA) 060-RICO-02MV under United States Environmental Protection Agency (EPA), Region 2 Remedial Action Contract (RAC) 2 to conduct a remedial investigation/feasibility study (RI/FS) for the Pierson's Creek Superfund Site (the site) located in the City of Newark, Essex County, New Jersey. The overall objectives of the WA are to define the nature and extent of contamination in various media at the site, assess the baseline risks to human health and ecological receptors, and develop cost-effective remedial alternatives to remediate contamination found at the site.

1.1 Purpose of the Technical Memorandum

The overall purpose of the Technical Memorandum is to collect and evaluate existing information to develop a work plan and associated planning documents to support the RI, FS, and human health and ecological risk assessments.

The key goals of this technical memorandum are as follows:

- Summarize existing data and information for Pierson's Creek and surrounding areas
- Identify gaps in the existing data
- Provide recommendations to fill the data gaps

1.2 Technical Memorandum Organization

This technical memorandum is organized in the following manner:

Section 1 Introduction – Presents an overview of the site, including the environmental setting and physical characteristics of the site.

Section 2 Existing Data Management – Describes the approach used to manage and use existing analytical data

Section 3 Summary of Historical Investigations – Summarizes the existing information collected from the site and presents findings and conclusions of various historical reports.

Section 4 Data Gap Evaluation and Recommendations – Provides a preliminary conceptual site model, evaluates gaps in the existing data, and provides recommendations to fill the data gaps.

Section 5 References – Provides a list of the sources cited in the preparation of this technical memorandum.

1.3 Site Description

This section provides an overview of the Pierson's Creek site, including the site location, environmental setting, and a site history summary.

1.3.1 Site Location

For purposes of the technical memorandum, the area evaluated includes Pierson's Creek, an approximately 1.5 mile manmade drainage ditch extending from just south of the Troy Chemical Corporation property to the Port Newark Channel of Newark Bay. The Troy Chemical Corporation property, which is located at 1 Avenue L in the City of Newark, Essex County, New Jersey, is part of the Pierson's Creek Superfund Site. The RI/FS investigation of the Troy Chemical property is being conducted by others. However, background information on the Troy Chemical Corporation is included in this technical memorandum based on historical information indicating that the Troy Chemical facility potentially contributed to contamination in the creek. Figure 1-1 provides a site location map.

1.3.2 Site History Summary

The Troy Chemical facility discharged mercury-bearing wastewaters directly to Pierson's Creek without treatment until 1965 when the facility's mercury pretreatment system was installed at the edge of the Creek. Discharges of mercury-bearing wastewaters to Pierson's Creek continued from 1965 to 1976, even after a sulfide precipitation pretreatment system was installed. In 1976, the facility connected to the Passaic Valley Sewerage Commission (PVSC) sewer system and began diverting wastewater from the mercury pretreatment system to the facility wastewater treatment plant (WWTP) where wastewaters were treated by settling, removal of suspended solids and oil, and neutralization before subsequent discharge to the PVSC system. The additional levels of treatment at the WWTP did not remove all mercury from the process wastewater; the mercury contribution to PVSC, as tested in 1979, was calculated to be approximately 327 pounds per day, and the facility discharged an average of more than 30,000 gallons per day of mercury-bearing wastewater to the PVSC sewer system for a 91-day period in 1986. The facility reported that it ceased the production of mercury-containing products that discharged to the sewer effluent as of February 1, 1987. Details of the Troy Chemical Corporation site history are provided in Section 3.

Other properties that may have discharged contaminants to Pierson's Creek include the 429 Delancy Street property, the 400 Delancy Street property, the 338 Wilson Avenue property, the 80 Avenue K property, and the 7 Avenue L property. Details of the activities and site histories for these properties are described in Section 3.

1.4 Environmental Setting

This section summarizes the environmental setting in the vicinity of the Pierson's Creek site, including topography and drainage; surface water bodies, including Pierson's Creek; and the general characteristics of the geology and hydrogeology.

1.4.1 Topography and Drainage

The Pierson's Creek site is located within the Elizabeth, New Jersey, United States Geological Survey (USGS) 7.5 minute topographic quadrangle. Surface water drainage in the site area is

toward Pierson's Creek and its associated wetlands. The overall drainage at the site is toward Newark Bay. Newark Bay is part of the New York-New Jersey Harbor Estuary, which also includes Upper New York Bay, Lower New York Bay, and Raritan Bay; the channels that connect the bays, including Arthur Kill/Pratt Creek, Kill Van Kull, and The Narrows; and the tidal portions of the Hackensack River, Passaic River, and other rivers.

The topography in the site area is generally flat with surface elevations generally less than 10 feet above mean sea level (amsl) between the Troy Chemical property and Newark Bay. Historical information indicates that the industrial area around the Troy Chemical property is poorly drained and subject to periodic flooding.

1.4.2 Surface Water

Major surface water bodies in the vicinity of the site include Pierson's Creek and the Port Newark Channel and Newark Bay. Newark Bay is a tidal Bay approximately 5.5 miles long, located at the confluence of the Passaic and Hackensack Rivers in northeastern New Jersey. The Newark Bay, Passaic River, and Hackensack River are part of the Passaic, Hackensack, and New York Harbor Complex Basin. Surface water quality standards set by the New Jersey Department of Environmental Protection (NJDEP) classifies Newark Bay, the Passaic River, and the Hackensack River in the vicinity of the southern portion of the site (Newark, Kearny Point) as SE3, which is a general surface water classification applied to saline water of estuaries. Designated uses of SE3 waters include secondary contact recreation, maintenance and migration of fish populations, migration of diadromous fish, maintenance of wildlife, and any other reasonable uses (Matrix New World Engineering [Matrix] 2009).

1.4.2.1 Pierson's Creek

Pierson's Creek is an approximately 1.5-mile, manmade ditch located in a heavily industrialized section of Newark, Essex County, New Jersey. The site areas were formerly part of the Newark Meadows swampland, which was filled in the 1940s to 1950s by the City of Newark for development purposes (Matrix 2007). Pierson's Creek is located north of Port Newark Channel, south of the Passaic River, and west of Newark Bay. Figure 1-1 shows the site location.

Pierson's Creek has been channelized along much of its length by the City of Newark. The creek runs through, and has received surface runoff or direct discharge from, multiple industrial properties. Pierson's Creek is characterized by engineered structures such as concrete-lined flumes and culverts along much of its length.

Historically, Pierson's Creek originated on the75 Avenue L property (currently occupied by Federal Express). However, this area has been filled and covered. Currently, based on a site reconnaissance (CDM Smith 2016), the Pierson Creek alignment extends generally in a south-southwest direction from the 1 Avenue L (Troy Chemical property), traversing several current and former industrial properties (including the Ironbound Continental Plaza [Former USF Red Star]) and the 429 Delancy Street Association property (Former Engelhard property) before going into buried culverts below the Conrail Oak Island Rail Yard, Newark airport parking areas, I-78, the NJ Turnpike, and Newark International Airport. Below Newark Airport, the buried creek turns eastward and discharges into Port Newark Channel, which is a part of Newark Bay.

The following subsection describes the physical makeup of the creek currently and historically, breaking the creek down into several divisions based on the site area. These include:

- 75 Avenue L property (formerly Albert Steel Drum (ASD)/currently FedEx®)
- 1 Avenue L (Troy Chemical property)
- 400 Delancy Street (Ironbound Continental Plaza – Former USF Red Star)
- 429 Delancy Street (Former Engelhard)
- Oak Island Rail Yard and Airport Parking Areas

75 Avenue L Property (Former ASD/ currently leased by FedEx® Freight)

Historically, this property, located north of the Troy Chemical property, contained an open portion of Pierson's Creek that has subsequently been filled in. Figure 1-2 (2004 aerial photo) shows that at least until December 2004, the concrete channel (that now begins on the Troy Chemical property) extended to the north onto the former ASD property. Reports suggest that the creek may have once received input from the Wilson Avenue storm water network and in some form may have historically extended to the north past Wilson Avenue, providing storm drainage for industrial areas north of the current site area.

Currently, this property appears to be nearly 100 percent paved, contains a large number of FedEx® shipping containers and trucks and has storm water catch basins throughout the southern part of the parking areas. The storm water system was routed to a new city sewer installed under Avenue L that reportedly discharges to Pierson's Creek through the box culvert just south of the Troy Chemical property.

1 Avenue L (Troy Chemical Property)

Historically (including at the time of mercury releases), Pierson's Creek surfaced from a 36-inch storm water culvert just to the north of the Troy Chemical property and flowed in the concrete channel that bisects the Troy facility, discharging to a box culvert and eventually an unlined open channel south of the Troy Chemical property (Figure 1-3). Storm water runoff and process water from the property was at one time directed to the creek, but currently the channel is covered and both ends are sealed. Currently, storm water and facility process water is reportedly managed independent of the creek.

The concrete channel is made up of a concrete ditch that sits above an older concrete culvert. The concrete ditch is a completely channelized storm water conveyance structure. The length of the concrete ditch is approximately 550 feet and is approximately 15 to 20 feet wide at the upstream end, tapering to approximately 8 feet at the downstream end. The concrete ditch is constructed with a combination of concrete and stone gabion walls, ranging from approximately 6 to 20 feet in height. Gauging of the stream level while active found the creek level to be slightly below 5 feet amsl.

The material in the concrete ditch is reported to be heterogeneous, highly organic assemblage of sand and silt with interspersed fill material and refuse. In September 2012, the majority of

material within the concrete ditch was stabilized with 40 percent (by weight) cement kiln dust (CKD) generating a material which is similar to a coarse grained soil.

In 2012, it was discovered that the concrete ditch is constructed atop an enclosed concrete culvert; this culvert is likely the original storm water drainage structure installed across the property. Based on visual observations, the concrete culvert is uniform in construction, being approximately 12 feet wide by 3 feet tall. The concrete culvert is equipped with removable top slabs, likely to allow for the removal of material accumulated within the structure. The bottom, sides, and top of the culvert appear to be generally intact, with the exception of the central portion where both side walls and top of the culvert have collapsed. The culvert structure is filled with an estimated 800 tons of material. Based on field observations, this material is made up of fine silts and clays, which give it a toothpaste-like consistency. The concrete culvert also contains a variety of debris.

In 2008, following the connection of the former ASD property storm water system to a new city sewer installed under Avenue L, the northern end of the concrete channel on the Troy Chemical property was sealed with concrete to prevent the in-flow of storm water from the property to the north. In 2012, the southern end of the channel on the Troy Chemical property was also sealed to prevent flow from the Troy Chemical property to the open channel to the south.

An unnamed drainage channel (hereafter referred to as the Troy eastern drainage ditch) intermittently flows along the eastern property boundary, collecting storm water runoff from the easternmost part of the Troy Chemical property and also from the Globe Metals property and the Welch, Holme & Clark property to the east. This ditch discharges through an underground pipe to the box culvert just south of the Troy Chemical property. This discharge and the re-routed storm sewer system (installed under Avenue L) make up the current surface water input into where Pierson's Creek currently begins.

400 Delancy Street (Ironbound Continental Plaza - Former USF Red Star)

This 15-acre property south of Troy Chemical formerly is bisected by an open portion of Pierson's Creek (Figure 1-3). Both sides of the creek are fenced; however, the western side the fencing is falling over in several areas. The western side of the creek is lumber storage areas, and the eastern side appears to be leased for FedEx® trailer storage. Storm water drainage on both sides of the property flows through sheet flow and subsurface drains toward Pierson's Creek and the small wetland areas along its shore. The topography dips sharply down to the creek from the east and west.

The creek flows south from the Former USF Redstar property into a large culvert below Delancy Street before continuing onto the 429 Delancy Street Association property (former Engelhard property).

429 Delancy Street Association Property (Former Engelhard)

Once it exits the culvert below Delancy Street, Pierson's Creek bisects the 41.6-acre former Engelhard property in an unlined channel. Storm water runoff migrates to the creek from much of the former Engelhard property through sheet flow and historically through a storm water sewer system on the western (developed) part of the property (Figure 1-3). This included numerous sewer discharges to the creek that were tied into industrial processes at the property.

The creek is about 1,100 feet long at the property, with the channel being about 50 feet wide at the top of the banks and about 10 to 15 feet deep below the banks. The grade slopes sharply down to the creek in both directions. The elevation of the creek bottom appears to range from 2 feet amsl at the northern end of the property to about 1 feet amsl where the creek enters a culvert that goes under the Oak Island Rail Yard, with the typical baseflow creek at an elevation of 3 feet amsl.

The property on the western side of the creek is at a higher elevation (generally > 15 feet amsl) than on the eastern side of the creek (generally between 10 to14 feet amsl). The southeastern portion of the eastern side of the property is partially below the 100-year flood line (~10 feet below ground surface [bgs]) and also may be impacted by tides.

Two additional drainage swales collect storm water runoff from portions of the property. One swale (hereafter referred to as the Engelhard eastern drainage ditch) collects runoff from the easternmost portion of the property and from the property adjacent to the raised rail spur and railroad access road that the ditch runs adjacent to. A second drainage swale (hereafter referred to as the Engelhard southern drainage ditch) collects runoff from the southern portion of the former Engelhard property as well as the land north of the elevated railroad that borders the southern boundary of the former Engelhard property. Both drainage swales appear to discharge to Pierson's Creek at the southern end of the property, just before the creek enters a culvert that directs it below the Conrail Oak Island Rail Yard.

Conrail Oak Island Rail Yard and Newark Airport Parking Areas

Pierson's Creek is primarily routed through culverts as it traverses under the Conrail Oak Island Rail Yard and the Newark Airport Parking areas, however it does daylight in several locations as shown on Figure 1-3. The creek daylights in stretches of open channel (<30 feet long each) immediately north and south of the rail yard, prior to entering the Airport Parking Areas.

Once on the Airport Parking property, the creek appears to flow through an approximately 100 foot long swale that appears to receive storm water runoff from a feeder ditch (hereafter referred to as the parking area northern drainage ditch) on the northern side of the parking lot. It appears likely, but is not clear, that this feeder ditch receives runoff from the entire parking lot.

As Pierson's Creek continues south it enters an approximately 800 feet long culvert that traverses the parking areas before exiting to the south into an open channel. This channel continues south for approximately 200 feet before being joined by a feeder stream that flows this direction from the east (hereafter referred to as the I-95 drainage ditch). The 1,300 feet long I-95 drainage ditch collects runoff from the eastern part of the parking areas as well as areas below the I-95/ I-78 interchange. Pierson's Creek continues to the west for another 600 feet in a drainage swale between the parking areas and I-78 before entering a large culvert that continues below I-78, Newark airport runways, and I-95 before eventually discharging into the Port Newark Channel.

1.4.3 Geology and Hydrogeology

The site areas are located in the New Jersey Piedmont geological province, often referred to as the Piedmont Plateau. The site is underlain by the Passaic Formation Mudstone Facies of the Brunswick Group, which formed during the lower Jurassic and upper Triassic period. Overlying the bedrock are thick layers of glacial drift and till, overlain by more modern marsh peat deposits,

which were filled during the 20th century. Groundwater is found in both the shallow overburden and the deep bedrock aquifers.

Geology

The following subsection summarizes the geology of the site areas as described in previous investigations of the site areas.

Overburden

The overburden at the site is made up of historical fill, marsh deposits, and glacial deposits.

Historical Fill

The properties in most of the site areas are constructed on historical fill (HF), including ash, cinder, construction debris, and other materials that were used to fill former salt marshes and raise the topography of the area prior to 1900.

Based on the results of previous investigations at the Troy Chemical property (Environmental Liability Management [ELM] 2004a), HF material is located beneath the low permeability surface material to depths of 7 to 9 feet bgs and appears to have been deposited at the Troy Chemical property from 1940 to 1960, based on the examination of historical aerial photography (Weston Solutions Inc. 2013).

Fill on the Former USF Redstar property was described as similar and found to a depth of approximately 6 feet bgs.

Fill on the Former Engelhard property is approximately 10 to 15 feet thick and made up of sandy soils intermixed with brick, ash, construction debris, glass, wood, metal fragments, and other miscellaneous fill. On the eastern portion of the Former Engelhard property, dredge spoils from Pierson's Creek also make up the fill in the area.

Meadow Mat

Below the HF is a layer of highly organic marsh deposits with low permeability, locally referred to as meadow mat. Based on results of previous investigations, the meadow mat is located directly beneath the HF and varies in thickness. Below the Troy Chemical property, it is reportedly 1 to 1.5 feet thick. On the Former Engelhard property, it is reportedly 3 to 5 feet thick when present but is not continuous throughout the property.

Glacial Deposits

Low permeability glacial till and glacial drift are present in the Newark area above the bedrock. The till in the area consists largely of clay, with some silt and trace amounts of sand and gravel. The glacial drift is coarser grained, with more sands and gravels.

In the Troy Chemical property area, glacial till was found underlying the meadow mat, starting at depths of 8 to 10 feet bgs, with the thickness of the till measured at 60 feet or more (ELM 2004a).

On the Former Engelhard property, the meadow mat is underlain by 30 to 60 feet of glacial drift and glacial till.

Bedrock
The Passaic Formation in the area consists of reddish-brown to brownish-red sandy mudstone, silty to sandy mudstone, and siltstone interbedded with lenticular sandstone. The total thickness of the formation is approximately 12,000 feet (Matrix 2009). The top of bedrock was encountered at approximately 45 to 80 feet bgs in the site area. The formation has been shown to have systemic fractures, both near-vertical joints and partings along bedding planes, providing the bulk of the formations permeability (Michalski 1990).

Hydrogeology
The Newark Basin is part of the Brunswick aquifer, which consists of overburden and bedrock water-bearing units.

Overburden Groundwater
The Newark Bay study area is an area of extensive interaction between surface water and groundwater. The formation at the site has ample ability to store and transmit groundwater, with groundwater flowing in the south to southeast direction toward Newark Bay; however, numerous shallow drainage features clearly impact groundwater flow.

Shallow groundwater in the site areas is encountered within the historic fill and is generally expected to discharge to the creek in any areas where it is unlined or lined with permeable materials (e.g., stone gabion).

On the Former ASD property, shallow groundwater likely discharged to the creek when it was present, but previous groundwater monitoring also suggested a groundwater divide exists on the property, with groundwater flow below the northern half of the property moving north.

At the Troy Chemical property, groundwater is encountered at approximately 2 to 4 feet bgs (5 to 7 feet amsl). Under wet conditions (i.e., during and following a precipitation event), storm water would accumulate in the concrete ditch/culvert and recharge shallow groundwater. Under dry conditions (i.e., no storm water accumulation), shallow groundwater recharges the concrete ditch in the gabion-lined portions where the stream was gauged to be at approximately 5 feet amsl (EMCON 1998).

Similar to the Troy Chemical property, groundwater at the Former USF Redstar property was found at 2 to 6 feet bgs, flowing generally east toward the creek, although there was limited monitoring near the creek.

Shallow groundwater at the Former Engelhard property was noted to flow toward the east and northeast toward Delancy Street on the western portion of the property and toward Pierson's Creek on the eastern portion of the property.

Below the shallow groundwater zones within the fill, a deeper overburden groundwater zone is found below the meadow matt within the glacial materials. This groundwater zone is less likely to be impacted by surficial drainage features and was observed to flow in a generally eastward direction during limited groundwater studies on the Troy Chemical and Former Engelhard properties. These glacial overburden zones can be productive groundwater zones in the areas where glacial drift is present but may be impacted by salt water intrusion.

Bedrock Groundwater
The shallow bedrock of the Passaic Formation in the area is of little or no potable groundwater use in the area with yields less than 5 gallons per minute (gpm). The deeper bedrock water-bearing unit in the site area consists largely of sandstone, siltstone, and shale. Groundwater in this formation is stored and transmitted via fractures and has an average yield of 100 to 250 gpm. The water within the aquifer is typically fresh, slightly alkaline, hard, and dominated by calcium bicarbonate (USGS 1997).

1.5 Properties Evaluated

As described in the work plan (CDM Smith 2015), existing documents were obtained and reviewed for the Troy Chemical Corporation property and the nearby properties listed below. The nearby properties were identified as potentially impacting Pierson's Creek based on historical information and reports available at the time the work plan was prepared. Existing information and data provided by EPA and obtained through file searches at the NJDEP and the City of Newark are summarized in Section 3 of this technical memorandum.

- 429 Delancy Street property
- 400 Delancy Street property
- 338 Wilson Avenue property
- 80 Avenue K property
- 7 Avenue L property

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Section 2

Management of Existing Data

Existing analytical data provided by EPA is presented in this section, including development of a database for storage and retrieval of the data, data quality, and the use of the data in the RI/FS.

A significant amount of existing data are available in the various reports discussed in Section 3 but the data are not in electronic format and will not be included in the database or used in the RI report. However, the data will be used to identify data gaps and support development of the technical approach for the RI field investigation.

2.1 Database Development

To facilitate evaluation of the exiting analytical data from the Hazard Ranking System (HRS) and Newark Bay Study Area provided by EPA, the data listed below were uploaded into the EQuIS database. EQuIS is an environmental data management and reporting platform that interfaces with industry standard data reporting, spatial analysis, and data evaluation software. Analytical and location data provided in electronic data deliverables (EDDs) for approximately 130 samples were uploaded directly into the EQuIS database. The database will be used to facilitate data evaluation and reporting of the data in the RI/FS.

- Hazard Ranking System (HRS) data, Pierson's Creek (Weston Solutions 2013)
- Newark Bay Study Area Phase 1 and Phase 2 sediment coring data (Tierra Solutions 2008)

2.2 Data Quality and Use

No assessment was made of the quality of the existing data used in this technical memorandum. The datasets listed below were generated under an EPA-approved quality assurance project plan (QAPP). Analyses were performed by an EPA laboratory or by a laboratory that met the requirements established in the EPA-approved QAPP. Therefore, the data below are considered definitive-level data and will be reported and used in the Pierson's Creek RI/FS:

- HRS data, Pierson's Creek (Weston Solutions 2013)
- Newark Bay Study Area Phase 1 and Phase 2 sediment coring data (Tierra Solutions 2008)

Data qualified as "rejected" (R) will not be used in the RI/FS. All of the remaining data, including data qualified as "estimated" (J), are considered to be valid and will be used in the RI/FS.

EPA also provided existing data for the 429 Delancy Street property (Matrix 2006). These data were collected under the direction of NJDEP. The 429 Delancy Street property data were not uploaded to the EQuIS database and will not be used to evaluate the nature and extent of contamination in the RI. However, the data will be used to support development of the technical approach for the RI/FS field investigation.

2.3 Data Summary

The existing analytical data discussed in the previous section is provided in tabular format in Appendix A.

- Appendix A-1: HRS data, Pierson's Creek (Weston Solutions 2013)
- Appendix A-2: Newark Bay Study Area Phase 1 and Phase 2 sediment coring data (Tierra Solutions 2008)

Section 3

Summary of Historical Investigations

3.1 Introduction

This section provides a summary of the review of key historical documents obtained during document searches at NJDEP and the City of Newark. It also includes a summary of the HRS documentation record and historical aerial photography provided by EPA. Summaries of chemical concentrations discussed in this section for key contaminants, along with current NJDEP screening criteria, in groundwater, soil, sediment, and surface water are provided in Tables 3-1, 3-2, 3-3, and 3-4 respectively.

3.2 Troy Chemical Property

The Troy Chemical property is a 6.11-acre property having a history of chemical manufacturing uses dating back to the 1880s. Chemicals produced at the property have included ultramarine, aniline, and coal tar dyes as well as metallic soaps, paint dryers, mercuric oxide, and fungicides. The property was acquired by the present-day owner and operator, the Troy Chemical Corporation, Inc. (Troy Chemical), in 1980, although the company operated under the Troy Chemical Company name beginning in 1953.

Pierson's Creek runs north to south through the central portion of the property. An unnamed tributary enters Pierson's Creek immediately south of the property and runs alongside the eastern border of the property. In 2007, a culvert was installed at the convergence of the creek and the unnamed tributary by the City of Newark. The culvert receives storm water runoff from Troy Chemical, as well as the Avenue L storm water sewer system, and discharges to an unlined storm water channel, which traverses the adjacent property to the south. Groundwater, surface water, soil, air, and sediment on Troy Chemical have been the subject of extensive characterization performed during various site inspections, RIs, and remedial actions (RAs), identifying volatile organic compounds (VOCs), chlorinated VOCs (CVOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, pesticides, polychlorinated biphenyls (PCBs), and metals in various media.

The subsections below detail key report findings pertinent to the RI/FS. A current site plan layout of Troy Chemical is displayed in Figure B-1 included in Appendix B.

3.2.1 NJDEP and EPA Site Inspections, July 1977 to May 1984

3.2.1.1 Description

Between 1977 and 1984, numerous inspections were conducted at the Troy Chemical property on behalf of NJDEP and EPA Region 2. Inspection reports indicated that the manufacturing and waste treatment processes used by Troy Chemical involved "very poor housekeeping" procedures and that multiple violations existed. A summary of violations observed included the following:

- The discharge of cooling water, condensate, and storm water runoff directly into Pierson's Creek

- Large amounts of floating oil on the creek coming from the Troy Chemical property
- Septic tank leaching and raw sewage discharge from a leaking pipe within the employee locker room, leading into the creek (confirmed via dye testing)
- Storage of leaking drum (containing raw materials, finished products, and wastes) within the fungicide plant without an impervious base, berms, or dikes to contain spills
- Mercury droplets observed on the ground surface near the creek and surrounding the mercury reclamation area
- Inoperable oil skimmers and sump pumps with filter fences covered in oil
- Leaking dumpsters with multi-colored chemicals covering the ground surface
- Reported observations of unknown brown flammable liquid as well as various purple, red, green, and blue liquids observed near drums and dumpsters as well as within the creek
- Oil contamination of two leachate collection boxes installed in Pierson's Creek, suggesting the presence of groundwater contamination

3.2.1.2 Analytical Findings

During an EPA Region 2 led inspection in September 1977, several surface water and sediment samples were collected in Pierson's Creek. Water and sediment samples were collected 5 and 100 feet upstream, 300 and 750 feet downstream, and within the bounds of the property (EPA 1979).

- Sediment results indicated that relatively little mercury existed upstream (140 to 191 milligrams per kilogram [mg/kg]) in comparison to sediment within the plant property (11,600 to 22,400 mg/kg). Mercury contamination was also elevated downstream (3,120 mg/kg at 300 feet).
- Additional samples collected from the unnamed tributary, downstream of a septic leach field, revealed up to 83,000 mg/kg of mercury in sediment.
- Benzene was detected in Pierson's Creek surface water up to 95 micrograms per liter (µg/L).

3.2.2 Wehran Engineering Site Investigations, 1980s

3.2.2.1 Description

According to a 1994 Wehran Engineering (Wehran) remedial investigation work plan, site investigations were conducted at Troy Chemical in 1981, 1982, and 1988.

- Six groundwater monitoring wells were installed (MW-1, -1A, -2, -2A, -3, -3A) during the 1981 investigation. Three wells (the A series) were installed in the overburden fill, and three were installed in the underlying glacial till. The fill wells were generally screened at 5- or 10-foot intervals between 4 and 15 feet bgs. The till wells were generally screened at intervals between 40 and 60 feet bgs (Wehran 1994). These wells were sampled in August,

September, and November 1981 and in May 1982 and eventually abandoned prior to a remedial investigation conducted by EMCON in 1996 (EMCON 1998).

- Monitoring wells (MW-2, -2A) were later resampled in November 1988. Wehran and NJDEP collected seven soil samples from the property during this event as well (Wehran 1994).
- In 1989, Wehran and NJDEP split seven sediment samples and five surface water samples from the creek and the unnamed tributary on the eastern border. Although the exact locations of each sampling location are not provided, it is known that sediment and surface water samples were collected within the bounds of Troy Chemical as well as upstream and downstream relative to the property (Wehran 1994).

3.2.2.2 Findings

- In the 1981-1982 investigation, several VOCs (benzene, toluene, ethylbenzene, xylene [BTEX], chlorobenzene, tetrachloroethene (PCE), trichloroethene (TCE), and 1,1,1-trichloroethane and metals (arsenic, cobalt, copper, lead, mercury, zinc) were detected in ground at concentrations exceeding NJDEP Groundwater Quality Standards (GWQS).
- In 1988, resampling of MW-2 and MW-2A indicated VOCs and metals remained at elevated concentrations. The highest VOC concentration consisted of benzene (2,100 micrograms per liter [µg/L]) in MW-2. Mercury was detected across all wells and was most elevated in MW-2 (47,000 µg/L), MW-2A (22,900 µg/L), and MW-3A (25,000 µg/L).
- The 1988 soil sample analysis revealed elevated concentrations of mercury, lead, BTEX, and petroleum hydrocarbons. Petroleum hydrocarbons had the highest detections, ranging from 195 to 220,000 mg/kg, identified at 8 to 10 feet bgs within the north central portion of the property west of Pierson's Creek. Mercury was detected highest (3,120 mg/kg) at 2.5 feet bgs at the southern border of the property near the creek.
- Sediment analytical results indicated that Pierson's Creek and the unnamed tributary were impacted by CVOCs, (PAHs, metals, and petroleum hydrocarbons above NJDEP Sediment Screening Guidance (SSG) values. The highest concentration of mercury was identified at a level of 607,000,000 µg/kg, or 60.7 percent by weight, at SED-3. The exact location of this sample is unknown.
- Surface water samples were also found to contain CVOCs, PAHs, and mercury at levels above NJDEP Surface Water Quality Standards (SWQS).

3.2.2.3 Areas of Concern

As a result of these investigations, Wehran identified the following Areas of Concern (AOCs) for Troy Chemical:

- AOC 1 – The vicinity of the former mercury recovery still located in the southeastern corner of the property that operated in the 1970s
- AOC 2 – The vicinity of the former mercury treatment system to the west of Building 56
- AOC 3 – The vicinity of the former septic tank on the eastern side of the property

- AOC 4 – The vicinity of historical soil samples 1S and 1D collected in the early 1980s, just west of Pierson's Creek in the northern portion of the property
- AOC 5 – The vicinity of soil sample 4S (historical sample with limited documentation) on the southern border of the property where mercury was detected in soil at over 2,000 mg/kg

A map of all AOCs is displayed in Figure B-2 presented in Appendix B.

3.2.3 EMCON Remedial Investigation Report, February 1998

3.2.3.1 Description

Between 1996 and 1997, a remedial investigation was conducted at the Troy Chemical property by EMCON. This work was based on the May 1994 Wehran/EMCON remedial investigation work plan. The remedial investigation included:

- Twenty soil split-spoon samples at depths ranging from approximately 1 to 11 feet bgs.
- Seven surface water grab samples and 13 sediment grab samples at locations within Troy Chemical and upstream and downstream of the property.
- The installation and sampling of five shallow groundwater wells (MW-01 through MW-05) via bailer. The wells had 5-foot screens, with the exception of MW-2 (4foot screen) in the overburden fill material at intervals between 3 and 9 feet bgs.

Sample locations are displayed on Figure B-3 presented in Appendix B.

3.2.3.2 Findings

- Groundwater was found to be impacted by BTEX, PCE, TCE, and other CVOCs. In addition, a number of metals were measured at concentrations greater than NJDEP GWQS. Mercury ranged from 28.4 (MW-5) to 2,460 µg/L (MW-4).
- Benzene was elevated (3,000 µg/kg) in one soil sample (TB-1 S-1). Metals, including arsenic, copper, lead, and mercury, were detected at levels above NJDEP Soil Cleanup Objectives (SCOs). Mercury was detected within all soil locations but was elevated in two borings (TB-1 and TB-4) at levels ranging from 580 to 4,290,000 µg/kg. Concentrations generally decreased with depth.
- Surface water samples were found to contain VOCs (TCE and benzene), arsenic, cadmium, manganese, and mercury exceeding NJDEP SWQS. However, mercury was only detected at two locations within the unnamed tributary (SW-12 and SW-13). Low levels of PAHs and PCBs were also identified.
- Although NJDEP SSG values were not listed for many chemicals, concentrations of CVOCs (21 to 8,907,000 µg/kg), BTEX, SVOCs (non-detect to 580,000 µg/kg), PAHs (benzo(a)pyrene ranging from non-detect to 4,930 µg/kg), and PCBs (non-detect to 650,000 µg/kg) in sediment were detected in general exceedance of NJDEP SSGs where applicable. Benzene had the highest observed organic concentration, ranging from 133 to 582,000 µg/kg (SD-07). Metals, including arsenic, cadmium, lead, copper, nickel, zinc, and

mercury, also were measured above NJDEP SSGs. Mercury was detected in all samples, ranging from 7,300 (SD-04) to 3,030,000 µg/kg (SD-07). The highest mercury concentrations were identified in the central and southern portions of the creek, within the property boundary.

3.2.4 NJDEP and Passaic Valley Sewerage Commissioners Inspections, 1989 to 1999

Between 1989 and 1999, numerous inspections were conducted at the Troy Chemical property on behalf of NJDEP and the Passaic Valley Sewerage Commissioners. A summary of violations observed included the following:

- Petroleum hydrocarbon exceedances in discharge water between 1989 and 1999.
- Failure to submit multiple petroleum hydrocarbon sampling reports.
- Exceeding lower explosive limit (LEL) ranges (above 30 percent) for prolonged periods.
- Out of range pH monitoring results (below 5.0 or above 10.5) during multiple monitoring periods.
- Zinc exceedance in discharge water in 1998.
- Storm water permit absence (later obtained in March 1999)

3.2.5 ELM Remedial Investigation Report for Additional Soil and Groundwater Sampling and Remedial Action Selection Report for Soil, September 2000

3.2.5.1 Additional AOC Identification

The Troy Chemical operating history was re-evaluated during this RI, leading to the identification of seven additional AOCs:

- AOC 6 – Building 20, constructed in 1976 and used as a warehouse for storing various materials.
- AOC 7 – Buildings 30 and 30a, constructed in 1976 and 1986, respectively, and used as boiler and maintenance shops. A sump is located adjacent to these buildings.
- AOC 8 – Building 40, historically used to manufacture dryers and mercuric oxide in the 1970s.
- AOC 9 – Building 71, constructed in 1976 (approximately), used for fungicide manufacturing.
- AOC 10 – Building 81, constructed in approximately 1970 for use as a warehouse. Historic sampling (1S and 1D) adjacent to this building revealed mercury and lead concentrations exceeding NJDEP Restricted Use SCOs.
- AOC 11 – The process sewer line conveying waste water through the central portion of the property.

- AOC 12 – Building 61 (Bactericide and Defoamer Manufacturing), located in the southwestern portion of the property.

These additional AOCs are shown in Figure B-2 included in Appendix B.

3.2.5.2 Investigation Description

From March to May of 2000, soil and groundwater sampling was conducted to provide additional characterization required to comply with the NJDEP Technical Requirements for Site Remediation and to better evaluate potential remedial options. During the investigation:

- Seven monitoring wells (MW-2P, -2D, -4P, -4D, -6, -6P, -6D) were installed, including one shallow (less than 10 feet deep) well (MW-6), three wells (MW-2P, -4P, -6P) screened within the peat layer (between 8 and 12.5 feet bgs), and three deep wells (MW-2D, -4D, -6D) screened within the glacial till (50 to 60 feet bgs) beneath the peat layer.

- The deep wells were installed using a hollow-stem auger and were triple cased, with the outer casing (10-inch) set within the peat layer and the middle casing (6-inch) set within a silt layer below the peat. Two-inch wells were then drilled to the specified depth. Shallow wells were also installed using the hollow-stem auger, while the peat layer wells were installed using a hurricane rig. All wells were flush mounted and developed prior to sampling.

- Five soil samples were collected via split spoons, at 6-inch intervals during the installation of each deep monitoring to obtain data from (1) near ground surface, (2) above the water table, (3) above the peat layer, (4) within the peat layer, and (5) below the peat layer.

- Two soil samples were collected from each of 17 additional boring locations (B-1 through B-17) to characterize horizontal and vertical delineation within the shallow fill material and to determine if constituent concentrations posed an unacceptable impact on shallow groundwater.

All sample and AOC locations are displayed on Figure B-2, referenced in Appendix B.

3.2.5.3 Findings

- The primary contaminants in soil and groundwater included benzene, PCE, TCE, arsenic, lead, and mercury at concentrations exceeding NJDEP GWQS, NJDEP Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) and NJDEP Impact to Groundwater (IGW) Soil Cleanup Criteria.

- Benzene (non-detect to 3,200 µg/L) was detected highest in monitoring wells MW-1, MW-2, and MW-4, whereas PCE (non-detect to 33,000 µg/L) and TCE (non-detect to 12,000 µg/L) were detected highest in the MW-2 cluster, with substantially lower concentrations in all other wells. Peat monitoring well MW-2P also included elevated concentrations of 1,1-dichloroethane (2,000 µg/L), 1,1-dichloroethene (230 µg/L), PCE (33,000 µg/L), and TCE (12,000 µg/L). Vinyl chloride (8.4 µg/L) was detected in MW-4P.

- Mercury (non-detect to 87 µg/L), lead (non-detect to 274 µg/L), and arsenic (5.7 to 58 µg/L) were detected in groundwater at concentrations greater than NJDEP GWQS at

multiple monitoring wells. Mercury and lead were highest at MW-2, -4P and -4D. Arsenic was highest in monitoring wells MW-1, MW-2, and MW-3. All inorganic results were elevated at MW-6, but this was attributed to high turbidity during sampling. Mercury was not detected in any deep monitoring well at a concentration above NJDEP GWQS.

- VOCs were detected in soil at concentrations above NJDEP Direct Contact Soil Cleanup Criteria (DCSCC) criteria in AOCs 1, 7, 8, 9, 11, and 12. Benzene (non-detect to 33,000 µg /kg) was the primary VOC detected, with a maximum concentration in AOC 1, which also included detections of PCE, TCE, and cis-1,2-dichloroethene (DCE) above NJDEP IGW criteria.
- Benzo(a)pyrene (non-detect to 120,000 µg/kg) was detected above NJDEP DCSCC and IGW criteria at AOCs 7, 8, 9, and 12. Additional PAHs were detected in AOC 9 above NJDEP IGW and DCSCC criteria. Aroclors 1248 and 1254 (non-detect to 8,200 µg/kg) were also identified above NJDEP DCSCC criteria in AOC 7.
- Lead (non-detect to 61,000 mg/kg) exceeded NJDEP DCSCC criteria at AOCs 1, 4, 7, and 10. Mercury (non-detect to 4,000 mg/kg) was detected above DCS criteria at AOCs 1, 4, 6, and 10. Arsenic (2.4 to 890 mg/kg) exceeded criteria in AOCs 1, 2, 4, 8, 9, 11, and 12.
- Background concentrations identified arsenic, lead, and benzo(a)pyrene above NJDEP DCSCC criteria, supporting the ELM conclusion that the historic fill material already contained constituents at concentrations that exceed NJDEP soil cleanup criteria.

3.2.5.4 Remedial Action Selection

Troy Chemical concluded that the majority of contamination detected in soil was attributed to historic fill although there were some areas where site-related constituents were detected and could be attributed to historic operations. Maintenance of the existing concrete cover with institutional controls (i.e., deed notice) was recommended to prevent exposure to contaminants in soil. Troy Chemical also recommended the documentation of a Classification Exception Area (CEA)/Well Restriction Area (WRA) for groundwater.

3.2.6 ELM Remedial Action Selection Report and Remedial Action Work Plan, May 2002

In August 2002, NJDEP approved a No Further Action request for deep groundwater since data obtained during the 1998 and 2000 remedial investigation reports (RIRs) showed that contamination was generally limited to shallow intervals within the historic fill and peat layers. The lack of discharge between the deeper water-bearing unit and Pierson's Creek and non-potable uses of groundwater within a 2-mile radius of the property were also considered in the No Further Action approval. Therefore, this remedial action work plan (RAWP) proposed the following actions:

- Use of existing engineering controls (concrete floors, concrete pavement, asphalt pavement, grass covered areas, fencing) to prevent direct contact, inhalation, and ingestion exposure pathways for soil

- Institutional controls (deed notice) for soil and groundwater (CEA/WRA) to preclude future residential use and potable well installation
- Further characterization of CVOCs in shallow groundwater near monitoring well MW-2

NJDEP subsequently established the need to address the following data gaps:

- CVOCs in soil and groundwater in the immediate area of monitoring well MW-2, situated adjacent the eastern side of the creek
- Benzene, lead, and mercury in soil along the perimeter of the property in support of the deed notice
- PAH and metal characterization in shallow groundwater beneath the property in support of the CEA/WRA

3.2.7 ELM Remedial Investigation Report, Remedial Action Selection Report and Remedial Action Work Plan, March 2004

3.2.7.1 Description

In August 2003, sampling was conducted on the Troy Chemical property to address the data gaps recognized by NJDEP in 2002. During the investigation:

- Twelve soil borings were drilled in the monitoring well MW-2 area to an approximate depth of 12 feet bgs where the glacial till intersected with the underlying peat deposits. A total of 13 samples were collected and analyzed for VOCs at the 6-inch interval, exhibiting the highest photoionization detector (PID) reading, the observation of non-aqueous phase liquid (NAPL), or at the interface of the fill and peat layers. Sample locations are displayed on Figure B-4 presented in Appendix B.
- An additional 28 soil borings were installed on the north, east, and south boundaries to characterize benzene, lead, and mercury along the property perimeter. No samples were collected at the western boundary, facing Avenue L. Three to five 6-inch interval samples were collected from each boring near the ground surface (0 to 2.5 feet bgs), mid depth (3 to 6 feet bgs), and at a depth near the interface of the fill and underlying peat layer (9.5 to 12 feet bgs). Sample locations are displayed on Figure B-5 presented in Appendix B.
- Twenty-four temporary monitoring wells were installed as part of the monitoring well MW-2 shallow groundwater investigation. The wells were installed in couplets for the purposes of characterizing water quality in the historic fill and underlying peat marsh deposits. The peat wells contained a 2-foot screened interval that intersected the peat, generally, set between 7 and 9 feet bgs. Screens in the coupled fill wells were positioned immediately above the fill-peat interface, generally, between 5 and 7 feet bgs. Groundwater samples were collected from each well via bladder pump or bailer in addition to existing monitoring wells MW-1, -3, -2S, -2P, and -2D and analyzed for VOCs.

3.2.7.2 Findings

- Qualitative field screening and PID results indicate that VOC impacts in the monitoring well MW-2 area decrease substantially in the glacial till underlying the historic fill.
- The primary contaminants detected in soil and groundwater in the monitoring well MW-2 area included PCE, TCE, cis-1,2-DCE, and vinyl chloride, with lesser amounts of BTEX compounds.
- PCE (non-detect to 3,110 mg/kg), TCE (non-detect to 174 mg/kg), benzene (2.27 to 123 mg/kg), cis-1,2-DCE (non-detect to 152 mg/kg), 1,1-dichloroethane (non-detect to 10.6 mg/kg), vinyl chloride (non-detect to 39.1 mg/kg), total xylenes (0.313 to 398 mg/kg), chlorobenzene (non-detect to 6.4 mg/kg), ethylbenzene (0.102 to 109 mg/kg), and methylene chloride (non-detect to 1.67 mg/kg) were specifically detected in soil near the monitoring well MW-2 area above NJDEP Soil Cleanup Criteria.
- PCE (non-detect to 33,100 µg/L), TCE (non-detect to 9,930 µg/L), cis-1,2-DCE (non-detect to 12,600 µg/L), vinyl chloride (non-detect to 2,260 µg/L), and benzene (121 to 9,890 µg/L) were specifically detected near the monitoring well MW-2 area above NJDEP GWQS.
- With the exception of benzene, the concentrations of the measured VOCs in soil generally decreased in all directions within 50 to 75 feet of the monitoring well MW-2 cluster.

3.2.7.3 Remedial Action Selection

The in-situ treatment of source material in soil and groundwater in the immediate monitoring well MW-2 area in conjunction with monitored natural attenuation (MNA) and institutional controls was recommended using emulsified food-grade edible oil injection to biodegrade CVOC contaminants via reductive dechlorination. The remediation system was recommended to encompass a vertical zone of 10 feet (saturated portion of historic fill material, peat, and upper glacial till) over the monitoring well MW-2 source area (approximately 100 feet long by 50 feet wide). The system would involve the injection of approximately 7,500 pounds of emulsified oil through 24 injection points and a quarterly groundwater monitoring program to assess the effectiveness of the treatment system and natural attenuation.

3.2.8 ELM Pre-Design Investigation Report, May 2005

3.2.8.1 Description

Pursuant to the March 2004 RAWP, ELM performed a pre-design investigation to further delineate CVOC and gasoline constituent concentrations in saturated soil and shallow groundwater to support the design of an in-situ remediation system in the monitoring well MW-2 Area, evaluate the viability and enhancement of reductive dechlorination, and finalize the extent of the CEA addressing mercury and lead in groundwater.

- In November 2004, groundwater samples were collected via bladder pump from all shallow monitoring wells (MW-1 through MW-6) to assess the current distribution of lead and mercury within the shallow water bearing unit on the property.
- In January 2005, nine soil borings were drilled and continuously sampled using direct push methods at locations upgradient, side gradient, and downgradient relative to the

monitoring well MW-2 cluster to horizontally delineate CVOCs and BTEX in soil. Three borings were advanced to the glacial till layer to provide vertical delineation. Soil cores from each boring were screened at 6-inch intervals with a PID. The interval exhibiting the highest PID reading was screened with a Sudan IV dye test kit for the presence of NAPL.

- PID readings indicated that impacted soil was generally limited to depths below the water table (2 to 3 feet bgs). Therefore, soil samples were generally collected from the saturated soils below the water table. Soil samples were analyzed for VOCs, total organic carbon, and nitrate/nitrite.
- Twelve temporary monitoring wells were installed in couplets, within the boreholes discussed above, to assess groundwater in both the historic fill and underlying peat layer. The peat and historic fill wells were generally screened (2-foot screens) between 6 and 9 feet bgs and 4 and 7 feet bgs, respectively.
- Groundwater samples were collected via bailers from the temporary wells as well as monitoring wells MW-2 and MW-2P. Samples were analyzed for VOCs, MNA indicator parameters (nitrate/nitrite, chloride, sulfate, sulfide, alkalinity, total organic carbon, ethene, ethane, and methane), and microbial analysis (*Dehalococcoides spp.*) to quantify dechlorinating bacteria presence within, and downgradient of, the monitoring well MW-2 Area.

Sample locations are displayed on Figure B-6 presented in Appendix B.

3.2.8.2 Findings

- One soil location tested marginally positive for the presence of NAPL, with the exception of a 2.5- to 3-foot interval in TW-19P, located approximately 80 feet south (downgradient) of the monitoring well MW-2 Area.
- Temporary well and soil samples indicated CVOCs and BTEX compounds (primarily benzene) at considerably lower concentrations than in the immediate monitoring well MW-2 Area. Downgradient locations TW-14P, TW-15P, and TW-16P were the only soil borings with VOC concentrations (benzene, 1,2-DCE, PCE, TCE) marginally exceeding NJDEP IGW criteria.
- VOC concentrations in soil and groundwater substantially decreased in the glacial till unit underlying the historic fill and peat layers although benzene, 1,1-DCE, methylene chloride, PCE, and TCE still slightly exceeded NJDEP soil IGW criteria.
- MNA groundwater parameter results indicated that the monitoring well MW-2 Area is conducive to the natural biodegradation of CVOCs.
- An elevated population of bacteria (*Dehalococcoides spp*.) capable of degrading CVOCs is present in the monitoring well MW-2 Area.
- Lead was not detected above NJDEP GWQS at any of the shallow wells on site. Mercury was detected above GWQS in one monitoring well (MW-4) at 4 µg/L. As such, lead was not included in the final groundwater CEA at the property described below.

3.2.8.3 Classification Exception Area/Well Restriction Area (CEA/WRA)

In October 2005, a final CEA/WRA for the property was approved by NJDEP for arsenic, mercury, and VOCs in groundwater to a depth of 13 feet bgs. Specific VOCs include BTEX, chlorobenzene, chloroethane, chloroform, 1,1-dichloroethane (DCA), 1,2-DCA, 1,1-DCE, cis-1,2-DCE, dichloromethane, PCE, 1,1,1-trichloroethane, 1,1,2-trichloroethane, TCE, and vinyl chloride. The wells are monitored annually although related reports were not available for review.

3.2.9 ELM Remedial Action Progress Reports, 2007 to 2010

3.2.9.1 Description

In April through May of 2006, ELM completed the in-situ bioremediation system instituted to address CVOC contamination in saturated soil and shallow groundwater within the monitoring well MW-2 Area, previously outlined in a 2006 remedial design report approved by NJDEP. The work included the injection of emulsified vegetable oil through a series of 33 direct push injection points (ELM 2007), encompassing a vertical zone of 10 feet (saturated portion of historic fill material, peat, and upper glacial till) over the monitoring well MW-2 source area (approximately 100 feet long by 50 feet wide).

Eight post-remediation quarterly sampling events, occurring between August 2006 and May 2008, and four semi-annual sampling events, occurring between November 2008 and August 2010, were conducted to assess the effectiveness of the in-situ treatment as well as natural attenuation mechanisms. Although six Remedial Action Progress Reports (RAPRs) were submitted to NJDEP for quarterly and semi-annual sampling results, only the second, third, fourth, and sixth were available for review. The following tasks were performed specific to the quarterly and semi-annual remedial action progress events:

- Installation of 14 permanent monitoring wells (MW-7/7P through MW-13/13P), in couplets, prior to the first quarterly monitoring event in August 2006. Each couplet was screened in the historic fill layer and underlying peat layer (ELM 2007).
- Installation of three piezometers and 12 staff gauges in Pierson's Creek and the unnamed tributary prior to the first quarterly monitoring event in August 2006.
- Installation of permanent monitoring wells MW-14 and MW-15 in June 2007 on the Globe Metals property, located immediately southwest of Troy Chemical, to serve as sentinel wells. The wells were screened at the intersection of the historic fill and peat layers (ELM 2007).
- Sampling of wells indicated above in addition to monitoring wells MW-1, MW-2, MW-2P, and MW-3 during each quarterly and semi-annual event as applicable in relation to installation dates.

During the remedial action progress events, ELM was also conducting a remedial investigation of surface water and sediment within Pierson's Creek and the unnamed tributary. Preliminary surface water and sediment data from this investigation were compared to data obtained for the RAPRs to evaluate contaminant distribution between the monitoring well MW-2 Source Area and the creek. In addition, permanent monitoring wells MW-16 and MW-17 were installed in January 2008 at the southern boundary of the Troy Chemical property, immediately adjacent to both sides

of the creek, to assess the potential presence of secondary source material within the peat layer enveloping the bottom of the creek channel. Results of such sampling, as included in the RAPRs, is included in Section 3.2.9.2 below. An expanded discussion of the sampling performed as part of the sediment RI is included in Section 3.2.10.

All well locations are displayed on Figure B-7 presented in Appendix B.

3.2.9.2 Findings

- During the August 2007 quarterly event, dense non-aqueous phase liquid (DNAPL) was observed (0.02 feet) at the bottom of monitoring well MW-8P (ELM 2007). DNAPL was not observed again during subsequent events; however, CVOC concentrations continued to remain elevated several orders of magnitude (130,000 µg/L of PCE) above GWQSs, potentially due to a residual DNAPL source (ELM 2010b).
- With the exception of monitoring wells MW-8 and MW-8P, continued reductive dechlorination was supported by the general transformation of parent CVOCs to tertiary and quaternary breakdown species throughout each sampling event (ELM 2010b).
- In November 2008, NJDEP approved ELM's request to reduce the groundwater monitoring program to semiannually due to the indication of decreasing concentrations of CVOCs in shallow groundwater (ELM 2010b).
- Preliminary RI sediment data revealed elevated CVOCs in the area of the monitoring well MW-8 cluster, leading to the conclusion that the concrete liner within the creek could be compromised (ELM 2008a).
- Preliminary surface water samples collected in January and September 2008 indicated select CVOCs, benzene, mercury, arsenic, and lead above NJDEP SWQS although such concentrations were attributed to sediment rather than groundwater (ELM 2008a).
- Preliminary data from monitoring well MW-17 identified low levels of CVOCs (primarily CVOC daughter products) marginally exceeding NJDEP GWQS although this was not attributed to a secondary source (ELM 2010b).
- Data from the last RAPR (August 2010) indicated that parent compounds and daughter products had decreased to levels generally below NJDEP Class II-A GWQS although several detection limits of CVOCs exceeded respective NJDEP GWQS for undisclosed reasons.
- Benzene concentrations remained unaltered from pre-remedial conditions, ranging from non-detect to 10,000 µg/L in 2010.
- In May 2013, the frequency of groundwater sampling was reduced to annually as approved by NJDEP although additional reports were not available for review.

3.2.10 ELM Remedial Investigation Report for Surface Water and Sediment, July 2010

3.2.10.1 Description

Between 2007 and 2008, ELM conducted an RI to delineate sediment and surface water contamination on the Troy Chemical property and to support future remedial activities within Pierson's Creek and the unnamed tributary to the east. The following sampling activities were completed during the investigation (ELM 2010a):

- Ten surface water and 80 sediment samples were collected from 5 sampling transects along Pierson's Creek (PC-1 through PC-5) and the unnamed tributary to the east (UT-1 through UT-5) within the bounds of the Troy Chemical property.
- Three surface water and 24 sediment samples were collected from three sampling transects (PC-6 through PC-8) within the storm water channel, immediately downgradient (south) of the property.
- Sediment sample depths varied within and between transects, ranging from 0.5 to 4 feet within Pierson's Creek, 0.5 to 8.5 feet within the unnamed tributary, and 0.5 to 5.5 feet within the storm channel.
- Sediment samples were collected via slam-bar advanced macrocores or vibracore technology.
- Surface water samples were collected at the mid-depth of the water column from the center of the channel at each location.
- Two groundwater monitoring wells (MW-16 and MW-17) were installed and sampled at the southern boundary of the Troy Chemical property, immediately adjacent to both sides of the creek. The wells were screened at the intersection of the fill and peat layer to assess the potential presence of secondary source material within the peat layer, which envelops the bottom of the creek channel.

Sample transects are displayed on Figure B-8 presented in Appendix B. Note that all historical permanent and temporary monitoring wells are displayed in Figure B-9 presented in Appendix B, and described in Section 3.2.12. Well screen intervals and July 2015 synoptic measurements are included in Table B-1 included in Appendix B.

3.2.10.2 Findings

- Sediment within Pierson's Creek, the unnamed tributary, and the storm channel was found to be impacted with aromatic and aliphatic VOCs, PAHs, heavy metals, pesticides, PCBs, and petroleum chemicals above NJDEP SSGs. Concentrations generally increased with depth to the bottom of the channel or until native soil was encountered (in the unlined tributary and storm channel). Contaminant concentrations were generally observed to be highest within Pierson's Creek, between PC-2 and PC-5.

- The primary VOCs detected included BTEX compounds, PCE and TCE. The highest concentrations of benzene (3,600 mg/kg), PCE (11,000 mg/kg), and TCE (2,000 mg/kg) were identified between transects PC-3 and PC-6.
- Arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc were identified in sediment across each sampling area at concentrations exceeding NJDEP SSGs. The maximum concentrations of mercury (3,830 mg/kg), lead (194,600 mg/kg), arsenic (849 mg/kg), and chromium (1,840 mg/kg) were identified between transects PC-2 and PC-5.
- Groundwater sampled from monitoring wells MW-16 and MW-17 indicated slightly elevated concentrations of VOCS and metals, with benzene at 97 µg/L in MW-16 and arsenic at 334 µg/L in MW-17.
- Elevated detections of VOCs, benzene, and heavy metals were identified in surface water. The highest detections of VOCs were identified between transects PC-3 through PC-5. VOCs generally decreased to levels approaching NJDEP SSGs downstream. The highest detections of arsenic, lead, and mercury were encountered between transects UT-3 and UT-4 of the unnamed tributary.

3.2.11 ELM Remedial Investigation Report Addendum for Surface Water and Sediment, February 2011

3.2.11.1 Description

In November 2010, one surface water and three sediment samples were collected by ELM at one transect (PC-9), downstream of transect PC-8, within the storm channel to further delineate the extent of contamination downstream of the Troy Chemical property. Sediment samples were collected at the eastern bank, western bank, and center of each transect using vibracore technology. The surface water sample was collected at the mid-depth of the water column from the center of the channel. The sediment and surface water samples were each sampled for select metals (arsenic, copper, lead, and mercury) while the sediment samples alone were analyzed for PAHs, and the surface water sample was analyzed for benzene, PCE, TCE, and vinyl chloride.

All sample transects are displayed on Figure B-8 presented in Appendix B.

3.2.11.2 Findings

Mercury (516 mg/kg), lead (2,870 mg/kg), arsenic (4080 mg/kg), and copper (778 mg/kg) were detected in sediment at concentrations significantly exceeding respective NJDEP SSGs. In addition, vinyl chloride (35 µg/L) was elevated considerably in surface water above NJDEP SWQS at PC-9.

3.2.12 Geosyntec Proposed Remedial Approach Report, September 2015

This report contains a summary of additional investigations and remedial actions between 2011 and 2015 not available for review in addition to sampling completed in support of a remedial approach for Pierson's Creek. The following subsections include such investigations in chronological order.

3.2.12.1 ELM Vapor Intrusion Evaluation, July 2013

3.2.12.1.1 Description

According to the 2013 NJDEP Vapor Intrusion Technical Guidance, buildings within 30 feet of groundwater in which BTEX was detected, or 100 feet of groundwater in which CVOCs were detected, could exceed the vapor intrusion groundwater screening levels and were required for vapor intrusion evaluation. As a result, ELM conducted a vapor intrusion investigation of buildings 30, 36, 40, 56, 81, and 99 on the Troy Chemical property in March and April of 2013. Due to the shallow depth of groundwater and the presence of fill material, only indoor air sampling was required. Fifteen air samples were collected during the investigation (ELM 2013b).

Figures B-1 and B-2 (taken from the Geosyntec report) display historical site operations and current layouts, including building number designations, respectively. Figure B-11 shows vapor intrusion sample locations. All figures are presented in Appendix B.

3.2.12.1.2 Findings

Results indicated that, with the exception of PCE (detected in one sample at a concentration of 1,500 micrograms per cubic meter), no contaminants of potential concern (COPCs) were detected at concentrations exceeding NJDEP's 2013 Non-Residential Indoor Air Screening Levels (ELM 2013b). Confirmatory sampling revealed that the PCE exceedance resulted from onsite operations rather than vapor intrusion (Geosyntec 2015). Mercury vapor analysis was also completed in March 2013, resulting in non-detections. No further evaluation of the vapor intrusion pathway was proposed, which was accepted by NJDEP (Geosyntec 2015).

3.2.12.2 ELM Status of Remediation of Concrete-Lined Storm Water Ditch, September 2013

In February 2012, Troy Chemical submitted a Self-Implementing PCB Cleanup Plan to EPA and a Remedial Action Selection Report/RAWP for Pierson's Creek to NJDEP. The plans described the stabilization of sediment and subsequent excavation for offsite disposal and were approved by EPA and NJDEP (Geosyntec 2015).

In September 2012, sediment in Pierson's Creek was mixed with CKD for stabilization. Approximately 60 tons of stabilized material from the creek was excavated and placed in sealed, labeled, roll-off boxes on the Troy Chemical property, currently stored on site under an extension to Resource Conservation and Recovery Act (RCRA) storage timeframes. Excavation activities were terminated following the discovery of a concrete culvert beneath Pierson's Creek (Geosyntec 2015).

Investigation of the concrete culvert was performed by ELM in November 2012. ELM concluded that the concrete culvert was a historical storm water conveyance through the One Avenue L property. The culvert is a uniformly sized concrete structure, approximately 12 feet wide by 3 feet high, equipped with removable top slabs for access (ELM 2013a). The material in the culvert was sampled and found to contain mercury, PCBs, and VOCs at concentrations higher than in the sediment in the overlying creek bed (Geosyntec 2015). Since the material in the concrete culvert was determined not to be suitable for direct disposal into a permitted landfill, a temporary cover was constructed over the entire creek using lumber and tarps to limit the collection of rainwater

(Geosyntec 2015). NJDEP documentation corroborated that the concrete culvert was a continuation of a culvert located upstream (NJDEP 1977).

3.2.12.3 Geosyntec Pierson's Creek and Concrete Culvert Test Pits for Treatability Testing, June 2015

Description

In June 2015, eight test pits (PIT-01A through PIT-06) were excavated by Geosyntec for the purposes of collecting material for treatability testing and to further characterize the impacted material within Pierson's Creek and the underlying culvert. PIT-01A was excavated outside the alignment of the concrete culvert to evaluate the lateral limits of the culvert. The remaining seven test pits were excavated within the culvert underlying Pierson's Creek. Composite samples collected from each test pit indicate elevated levels of VOCs, PCBs, lead, and mercury within the culvert sediment.

Figure B-12 displays all historical sample locations on Troy Chemical, including the 2015 test pit areas. This figure is presented in Appendix B.

Proposed Remedial Action

The remediation proposed by Troy Chemical includes the removal and offsite disposal of impacted material within Pierson's Creek and the underlying culvert and backfilling the area. As previously discussed, a RAWP was approved by NJDEP for the removal of the material from Pierson's Creek. A Self-Implementing PCB Cleanup and Disposal Plan (ELM 2012) was also approved by EPA for the removal action. These actions were proposed to be completed as a non-time critical removal action (NTCRA). Treatment technologies currently being evaluated include chemical oxidation and high temperature thermal desorption. The estimated volume of material to be removed from the creek is 1,711 cubic yards, with an estimated weight of approximately 2,225 tons (550 foot length by an average width of 14 feet. and an average depth of 6 feet) (Geosyntec 2015).

According to Geosyntec, Troy Chemical will further evaluate the integrity of existing foundations, asphalt, and concrete areas and make repairs as needed to prevent direct contact with site soils. Soils in the southeast corner of the property will also be evaluated to assess whether they are a potential source of COPCs. Shallow groundwater will continue to be monitored for the CEA/WRA and to follow the progress of the natural attenuation of VOCs remaining after the in-situ remedy performed in 2006 (Geosyntec 2015).

Figures B-13 through B-25 (taken from the Geosyntec report) provide recent and historical sampling information used to present conceptual models of contaminant distribution on Troy Chemical. These figures are included within Appendix B.

3.2.13 Regulatory History

- On March 25, 1977, a Notice of Violation and Offer of Settlement (NOV/OOS) for the breach of New Jersey Statutes Annotated (N.J.S.A.) 58:10-23.1 et seq. and N.J.S.A. 23:5-28 was issued to Troy by the NJDEP. The NOV/OOS disclosed that waste chemicals were allowed to enter a tributary of Newark Bay via a drainage ditch. Troy Chemical settled the NOV/OOS in April 15, 1977.

- In June 1977, Troy Chemical applied for a Permit to Locate, pursuant to NJSA 58:10-17 to 21 to the NJDEP Division of Water Resources. On July 22, 1977, a denial of the Permit to Locate pursuant to N.J.S.A. 58:10-17 to 21, inclusive was issued to Troy Chemical Corporation. The denial appears to have been based on information submitted by Troy and an inspection conducted on July 21, 1977 by department inspectors.
- In April 1978, Troy Chemical received an Authorization to Discharge to Port Newark Channel and an open storm sewer under the National Pollutant Discharge Elimination System.
- On July 10, 1978, the NJDEP Department of Environmental Quality issued a Notice of Prosecution (NOP) for failing to obtain a "permit" or "certificate" prior to installing/operating control equipment at the Troy Chemical property (Tierra 2005).
- On January 18, 1979 the NJDEP Department of Environmental Quality issued another NOP for failing to obtain a "Permit to Construct, Install or Alter Control Apparatus or Equipment" prior to installing a 1,800-gallon reactor (Tierra 2005).
- Troy Chemical submitted a Renewal Application for New Jersey Pollutant Discharge Elimination System (NJPDES) permit #NJ0031453 on March 27, 1980.
- A NOP for using a mercury still and condenser without water service to the water layer emission reducer dated July 14, 1980 was issued by the NJDEP Department of Environmental Quality (Tierra 2005).
- On March 26, 1981, the NJDEP Department of Environmental Quality issued a NOP for using a recovery furnace without a properly functioning Venturi Scrubber and also for failing to obtain a "Permit to Construct, Install or Alter Control Apparatus or Equipment" and a "Certificate to Operate Control Apparatus or Equipment" prior to installing/using a carbon adsorption unit (Tierra 2005).
- On June 25, 1981, a NOP was issued by the NJDEP Department of Environmental Quality for utilizing three muffled mercury recovery furnaces, one of which was functioning improperly thereby permitting emissions to escape from the charging door. The EPA also issued a Complaint, Compliance Order, and Notice of Opportunity dated June 16, 1981 for a hearing concerning storage of ignitable waste without rendering them non-ignitable or protecting them from ignition; failing to operate the facility in a manner that would minimize the possibility of fires, explosions, releases, and spills; lacking adequate internal communication/alarm systems; and for not taking precautions to prevent accidental ignition of ignitable wastes (Tierra 2005).
- On August 27, 1981, a NOP was issued for allowing benzene to be emitted into the atmosphere without registering the equipment with the NJDEP Department of Environmental Quality (Tierra 2005).
- In January 1984, a spill report was filed with the NJDEP, noting that process waste or kerosene was observed on the creek running through the facility (Pierson's Creek). The report was filed on behalf of an officer from the Department of Criminal Justice.

- On June 14, 1984, the NJDEP Department of Environmental Quality again issued a NOP for failing to obtain a permit to construct, install, or alter control equipment (Tierra 2005).
- On July 10, 1984, the NJDEP Division of Hazardous Waste Management issued a NOV for failing to submit a Treatment, Storage, and Disposal (TSD) Annual Report for 1983 (Tierra 2005).
- On June 21, 1985, the NJDEP Division of Water Resources issued a directive letter to correct deficiencies noted during a compliance evaluation inspection, which included violations of permit limitations for chemical oxygen demand (COD), poor housekeeping, and the use of the company's lab to perform the NJPDES analysis, which was not certified for this analysis (Tierra 2005).
- A 30-day notice for failure to submit a Discharge Monitoring Report was issued on March 27, 1986 by the NJDEP Division of Water Resources (Tierra 2005).
- On May 9, 1986, the Passaic Valley Sewage Commission issued a violation letter noting numerous deficiencies during a compliance inspection regarding the use of an LEL monitor (Tierra 2005).
- On August 13, 1986, the Passaic Valley Sewage Commission noted numerous deficiencies regarding improper reporting of various aspects of the Baseline Monitoring Report (Tierra 2005).
- A violation of PVSC rules and regulations for failing to submit a Baseline Monitoring Report was issued by the Passaic Valley Sewage Commission on August 17, 1986 (Tierra 2005).
- On August 18, 1986, the Passaic Valley Sewage Commission issued a Violation of PVSC Rules and Regulations for exceeding limitations of mercury on 59 of 60 occasions for the period spanning 4/1/86 to 6/30/86 (Tierra 2005).
- A 30-day notice for failure to submit a Discharge Monitoring Report was issued on February 24, 1987 by the NJDEP Division of Water Resources (Tierra 2005).
- On June 28, 1987, the NJDEP Division of Water Resources issued a directive letter as a result of observations made during a compliance evaluation inspection requiring Troy Chemical to cease unpermitted discharges of boiler blowdown water and steam condensate to Pierson's Creek, provide a timetable for implementation of a best management practices plan, and inform the division of any future spills through written notification (Tierra 2005).

3.3 429 Delancy Street Property (formerly Engelhard Corporation)

The 429 Delancy Street property, formerly known as the Engelhard Corporation Newark property, is located at 429 Delancy Street, Newark, Essex County, New Jersey. It is approximately 1.1 miles north of Port Newark Channel, approximately 1.25 miles south of the Passaic River, and approximately 1.39 miles west of Newark Bay at the point where the Passaic River and the

Hackensack River empty into Newark Bay (Matrix 2009). An aerial photograph of the property can be seen in Figure B-26 of Appendix B.

The property is bisected along its eastern third by Pierson's Creek with a developed western portion (approximately 31.4 acres) and a mostly undeveloped eastern portion (approximately 8.5 acres). South of the property is a drainage ditch that flows east to join Pierson's Creek, and Pierson's Creek eventually discharges to the Port Newark Channel (Tierra 2007).

Engelhard acquired a portion of the property in 1952, commenced operations by 1953, and by the late 1960s, the portion of the property west of Pierson's Creek was used for manufacturing operations. By 1987, Engelhard was reported to have discontinued chemical manufacturing operations at the property and demolished most of the buildings in 1996. In 1998, the property was sold to New Jersey Bottling Urban Renewal Corporation (NJBURC), a subsidiary of Coca-Cola Enterprises (CCE). NJBURC leased the western portion of the property to Interport Maintenance Co., Inc. (Interport) from approximately 2000 through 2004 for the temporary storage of marine freighters. The property remained vacant after Interport's termination of the lease (Tierra 2007) until Delancy Associates, LLC acquired the property from Coca-Cola Enterprises in 2007 (Matrix 2009).

The two primary manufacturing activities at the property were recovery and refining of precious metals (primarily platinum group metals, gold and silver) and catalyst manufacturing operations that utilized those metals.

3.3.1 Remedial Action Report, October 2001

3.3.1.1 Description

In October 2001, Langan Engineering and Environmental Services, Inc. (Langan) prepared a RAR for Interport, which had entered into a lease for the 429 Delancy Street property with its current owner NJBURC.

In November 2000, Langan had submitted a remedial action work plan to NJDEP on behalf of Interport, outlining the use and remedial measures planned at the property. This work plan was subsequently approved by NJDEP.

3.3.1.2 Summary

- A deed notice approved by NJDEP and a site-wide cap was the chosen remedy for soils at the property.
- The cap consisted of pre-existing asphalt paved areas and existing concrete foundations, and onsite demolition debris and milled asphalt were added to the cap as needed. A minimum of 4- to 6-inch thickness of the cap was maintained in accordance with specifications provided in a previous NJDEP approved remedial action work plan.
- NJDEP approved a CEA for the groundwater. No downgradient human receptors were identified in previous investigations.
- Cap monitoring and maintenance was to be conducted by Interport for the term of their lease.

- Based on these engineering and institutional controls, no further action was recommended for the use of the property by Interport to store freight containers.

3.3.2 Baseline Ecological Evaluation for the New Jersey Bottling Urban Development Corporation, September 2005

3.3.2.1 Description

In 2005, NJDEP requested a baseline ecological evaluation (BEE), which was prepared by ENVIRON on behalf of CCE. The purpose of the BEE was to identify any areas on site and off site that may require a detailed evaluation of ecological risks and to assess existence of contaminants of potential ecological concern (COPECs), environmentally sensitive areas (ESAs), and potential contaminant migration pathways from the property to the ESAs. The BEE included a field survey, literature reviews, and an evaluation of available site characterization data.

3.3.2.2 Summary

- COPECs identified in the soils at the property primarily consisted of SVOCs and metals. COPECs for groundwater included metals and chlorobenzene.
- No ESAs were identified on site. Pierson's Creek and the southern drainage ditch were identified as offsite ESAs, but both have been remediated and receive potentially contaminated surface water from offsite sources.
- No potential pathways were found for soil contamination at the property because of the site-wide cap.
- Although metal COPECs were detected in groundwater above New Jersey SWQSs, transport modeling suggested that if groundwater discharge reached the surface, it would be below the SWQSs. Modeling of chlorobenzene and benzene also indicated that there would be no flux to the surface water above SWQS concentrations.
- Although existing COPECs and ESAs were identified, no pathway for migration of COPECs to ESAs was determined, and no further ecological evaluation was deemed necessary.

3.3.3 Phase II Environmental Site Investigation, March 2007

3.3.3.1 Description

In March 2007, Matrix submitted a summary of Phase II environmental site investigation (ESI) activities completed at the 429 Delancy Street property to the NJDEP on behalf of SAI Realty Corporation. ESI activities were conducted for due diligence purposes and to assist in the existing Industrial Site Recovery Act (ISRA) case. These investigations included Ground Penetrating Radar (GPR)/magnetometer survey and concrete slab/construction debris, soil, groundwater and test pit investigations.

3.3.3.2 Summary

- A GPR/magnetometer survey was conducted on December 13, 2006, but because of excessive vegetation and ground elevation variations, it was not completed.

- Soil and groundwater sampling was conducted from December 14 to 18, 2006. Twenty-five borings were made on the western portion (SAI-1 to SAI-25) and two borings on the eastern part (SAI-30 and SAI-36). Groundwater and soil samples were collected from the borings. In addition, 10 surface soil samples for PCB analysis (PCB-1 to PCB-10) and five composite soil samples for toxicity characteristic leaching procedure (TCLP) metals (COMP-1 to COMP-5) were also collected.
- Three concrete slab samples and three construction debris composite samples were also collected.
- On January 3, 2007, three test pits (TP-1 to TP-3) were excavated in the eastern portion of the property, two in the septic system area (TP-4 to TP-5), and three in the debris fields west of Building 18 (TP-6 to TP-8).
- All sampling locations are shown on Figures B-27 and B-28 in Appendix B.
- Analytical results for soil boring and test pit samples that showed exceedances of NJDEP Soil Cleanup Criteria (SCC):
    - Lead concentrations ranged from 421 to 10,600 mg/kg.
    - Hexavalent chromium concentration detected at a pit was 77 mg/kg.
    - Total petroleum hydrocarbons (TPH) concentrations ranged from 37.7 to 10,600 mg/kg.
    - Dieldrin was detected at a concentration of 0.478 mg/kg.
    - 4,4'-dichloro diphenyl trichloroethane (4,4'-DDT) was detected at concentrations of 3.780 and 2.990 mg/kg.
    - Total PCB concentrations ranged from 0.497 to 3.30 mg/kg.
    - PAHs were detected above SCC in 19 soil samples and all three test pits.
- The only exceedance in soil composite analyses was of lead, which was detected at a concentration of 5.1 mg/kg in COMP-1.
- Concrete slab/construction debris analyses had the following exceedances:
    - Silver was detected at a concentration of 122 mg/kg.
    - TPH was detected at a concentration of 18,000 and 11,800 mg/kg.
- Groundwater exceedances of NJDEP's Groundwater Quality Standards:
    - Lead concentrations ranged from 14.9 to 3,310 µg/L.
    - PCBs were detected in one groundwater sample at a concentration of 1.9 µg/L.

- 4,4'-dichloro diphenyl dichloroethane (4,4'-DDD), 4,4'-dichloro diphenyl dichloroethylene (4,4'-DDE), and 4,4'-DDT were detected in one sample at a concentration of 0.14, 0.13, and 0.38 µg/L, respectively.
- Benzene was detected at a concentration of 3.7 µg/L.
- PAHs were detected above GWQSs at four locations.

3.3.4 Additional Sites and Candidate PRPs for the Newark Bay Study Area – Volume I of II, May 2007

3.3.4.1 Description

In May 2007, Tierra submitted a report to EPA Region 2 for the additional sites in the Newark Bay Study Area. Volume I of the Tierra document addresses the 429 Delancy Street property and includes details of the site history, operations, and historical contamination. The report documents the direct and indirect historical discharges of hazardous substances generated at the property to Pierson's Creek.

3.3.4.2 Summary

- The two primary manufacturing activities at the property were recovery and refining of precious metals (primarily platinum group metals, gold, and silver) and catalyst manufacturing operations that utilized those metals.
- The termination of Engelhard's manufacturing operation in 1987 triggered the State of New Jersey Environmental Cleanup and Responsibility Act (ECRA), now known as the New Jersey Industrial Site Recovery Act.
- Extensive soil, sediment, and groundwater sampling, as well as targeted soil and sediment remediation, were conducted on the property between 1987 and 1995.
- The primary metal contaminant in the Pierson's Creek sediments was silver. Levels of nickel (up to 45,000 parts per million [ppm]) and cadmium (up to 390 ppm) were determined to be highest in the portion of Pierson's Creek that traversed the 429 Delancy Street property. TPH concentrations of 180,000 ppm have been detected in Pierson's Creek. See Table B-2 in Appendix B for concentrations of all contaminants.
- The NJDEP required active soil and sediment remediation in areas impacted by Engelhard operations. Resulting remediation activities performed are as follows:
  - Soils:
    - *PCB-contaminated soil (3.5 cubic yards) in the northern portion of the property was excavated to the NJDEP residential criteria and was disposed of off site.*
    - *Free phase fuel oil and soil (1,970 cubic yards) in the area of monitoring well MW-14 were excavated and disposed of off site.*
    - *Soil-related remedial actions were completed in 1994, and NJDEP approved a "No Further Action" finding for all property soils. However, certain metals, SVOCs, TPH, one*

VOC (methylene chloride), and PCBs were subsequently identified during a 2005 BEE for the property at concentrations above screening values for soils. Engineering (a cap) and institutional (deed restrictions) controls were selected as the required remedy to address these elevated concentrations.

- Sediments:
  - *Prior to remedial action at the property, in 1980, the City of Newark reportedly dredged Pierson's Creek to improve storm water carrying capacity of the creek. The dredged material was reportedly disposed on the eastern portion of the property.*
  - *Sediments contaminated with TPH, metals, and base neutrals (approximately 1,090 cubic yards) and located within the southern drainage ditch (designated as AECs 57-62) were excavated and disposed of off site.*
  - *Metals-impacted sediments (approximately 500 cubic yards) located within Pierson's Creek were excavated and disposed of off site.*

3.3.5 Remedial Investigation Report/Revised Remedial Action Work Plan, November 2009

3.3.5.1 Description

The RIR for the 429 Delancy Street property was prepared by Matrix and submitted to NJDEP on November 30, 2009. At that time, the property was owned by Delancy Associates, LLC, who acquired the property from CCE in 2007, and was registered as a Brownfield site with the NJDEP.

The RIR was prepared in accordance with previously submitted RIR and remedial action work plan (RIWP) documents. The RIR section of this report was intended to document recent remedial activities conducted at the property, and the RAWP section addressed potential remedial actions for soils and groundwater. The RAWP identifies potential engineering and institutional controls to be put into place for the soil and groundwater and proposes soil reuse for soils to be removed from Pierson's Creek and any other excavation activities at the property.

3.3.5.2 Summary

- Based upon remedial investigations, five AOCs were identified in addition to the 76 historical AOCs:
  - AOC-SAI-A – Former Electrical Substations
  - AOC-SAI-B – Hexavalent Chromium
  - AOC-SAI-C – Pierson's Creek Rehabilitation
  - AOC-SAI-D – Historic Fill Materials
  - AOC-SAI-E – Ground Water CEA Revision
- In August 2009, remedial investigation activities were conducted at AOC-SAI-A and AOC-SAI-E, and no further remedial investigation activities were proposed. Proposed remedial

actions for the PCB contamination at AOC-SAI-A consisted of a cap and a deed notice. A new CEA was proposed for the benzene contamination in groundwater (AOC-SAI-E).

- For the impacted soils at the property and the banks of Pierson's Creek, a combination of engineering and institutional controls were the proposed remedial actions. The proposed engineering controls for soils included capping. The banks of Pierson's Creek would be excavated, lined with a synthetic liner, and capped with clean fill.
- For the impacted groundwater at the property, an institutional control in the form of a CEA was recommended.
- As part of maintenance of the engineering and institutional controls, the Biennial Certification requirements of NJDEP were to be completed.
- All contaminated excavated soil would be used as fill under the proposed site-wide cap.
- Upon completion of the remedial actions described in the RAWP, Matrix was to prepare and submit a RAR in order to request issuance of a site-wide No Further Action Letter and Covenant Not to Sue from the NJDEP, confirming completion of ISRA Case E85689 and the memorandum of agreement (MOA) dated October 10, 2007.
- An initial CEA for site-wide shallow groundwater was approved by NJDEP in 1995. December 2006 and August 2009 groundwater sampling indicated GWQS exceedances for several PAHs, beryllium and total chromium. These contaminants were proposed to be incorporated into the CEA.
- The CEA for metal and PAH contamination in groundwater would have an indeterminate duration, and the boundaries of the CEA would extend to the property boundaries of the property.
- For benzene contamination in site groundwater, Matrix proposed an extension in CEA duration to June 21, 2021.

3.3.6 Area of Concern Specific Remedial Action Report, May 2015

3.3.6.1 Description

In May 2015, Matrix prepared the Area of Concern Specific Remedial Action Report on behalf of Summit Associates, Inc. (Summit) for the property located at 429 Delancy Street. This RAR reports remedial actions associated with hexavalent chromium impacted soils in the area below the building slab of former Building 2 at the property (specifically AOC-SAI-B). It was meant to support the issuance of an Unrestricted Use Response Action Outcome (RAO) for AOC-SAI-B.

3.3.6.2 Summary

- In 2006 through 2007, Matrix completed a field investigation at the property as part of due diligence for the proposed redevelopment of the property. This included a limited GPR and magnetometer study, limited soil and groundwater sampling, concrete slab and construction debris investigations, and geotechnical investigations.

- In January 2007, during the completion of test pits, Matrix observed fill material visually consistent with potential chromium contamination at Test Pit #5 (TP-5, see Figure B-27 in Appendix B).
- Matrix collected one soil sample for total chromium and hexavalent chromium analyses. Total chromium was detected at a concentration of 1,200 mg/kg, below NJDEP's residential direct contact soil clean criteria (RDCSCC) of 120,000 mg/kg. Hexavalent chromium was detected at a concentration of 77 mg/kg, which exceeded NJDEP's non-residential SCC of 20 mg/kg.
- In March 2007, Matrix collected five soil samples to characterize the hexavalent chromium identified at TP-5. Hexavalent chromium concentrations exceeded NJDEP's hexavalent chromium SCC of 20 mg/kg in four of those samples.
- In May 2007, ENVIRON collected eight soil samples to characterize hexavalent chromium at TP-5. One of those samples had a hexavalent chromium concentration of 169 mg/kg, above NJDEP's SCC.
- In September 2007, Matrix collected 10 more soil samples to further delineate the extent of hexavalent chromium contamination at TP-5. Hexavalent chromium concentration exceeded NJDEP's hexavalent chromium SCC of 20 mg/kg in five soil samples.
- As part of RA activities conducted at the property in September 2012, approximately 2,700 tons of hexavalent chromium impacted soils were excavated and stockpiled.
- Fifteen post-excavation base samples and five sidewall samples were identified above NJDEP's hexavalent chromium criteria of 20 mg/kg.
- In December 2012, an additional foot of soils was removed from the entire base of the excavation, and additional excavation was performed on some areas of the excavation sidewalls. A portion of the concrete foundation with elevated concentrations of hexavalent chromium was also removed.
- Based on the December 2012 analytical results, all post-excavation samples were identified below NJDEP's hexavalent chromium criteria.
- An Area of Concern Specific Unrestricted RAO was issued for the AOC-SAI-B on May 30, 2015.

3.3.7 Review of Environmental Problems (date unknown)

3.3.7.1 Description

A review of environmental problems was conducted upon instruction of Engelhard Corporation to evaluate environmental impacts of industrial discharges released due to onsite operations. The reviewers determined discharges related to Engelhard operations at the 429 Delancy Street property and assessed all relevant statutes and regulations pertaining to those discharges in order to identify problem areas. The findings of this review are summarized below.

3.3.7.2 Summary

- Acidic wastewater (often having a pH of 1 to 2) being discharged into the city sewer violates the following:
  - Permit rules 19(g) and possibly 21 of the Passaic Valley Sewerage Commissioners
  - §§21:1-19(f) and possibly 21:1-18€ of the Newark Revised Ordinances
  - 40 Code of Federal Regulations §403.5
  - §58:10A-6a of the New Jersey Water Pollution Control Act
- Heavy metal discharges into the city sewer also violate §58:10A-6a of the New Jersey Water Pollution Control Act. Many of these pollutants are on the list of toxic pollutants in §307(a)(1) of the Federal Water Pollution Control Act (FWCPA) and on EPA's list of hazardous substances.
- Wastewater discharges into Pierson's Creek and the drainage ditch on the south of the property violate the following:
  - §23:5-28 of the Fish and Game Law
  - §58:10A-6a of the New Jersey Water Pollution Control Act
  - The common law of nuisance, both federal and state
  - Paragraph 15 of the plant's NPDES permit
- Apart from wastewater discharge problems, the plant was also in violation of emissions regulations.

3.3.8 Regulatory History

- Based on a 1977 NOV, a leak of process wastewater was released to Pierson's Creek (Matrix 2009).
- A RCRA site closure associated with two, 1,000-gallon RCRA hazardous waste storage tanks was performed at the property in 1987and 1988.
- The close of Engelhard's manufacturing operations at the property in 1987 led to the State of New Jersey Environmental Cleanup and Responsibility Act, now known as the New Jersey Industrial Site Recovery Act.
- Extensive soil, sediment, and groundwater sampling and targeted soil and sediment remediation were conducted on the property between 1987 and 1995 on behalf of Engelhard under ISRA Case #E85869. Since then, NJDEP has approved No Further Action for the soil and sediment locations remediated by excavation.
- The historic fill Areas of Environmental Concern (AECs) maintained beneath the existing cap continue the site-wide groundwater monitoring in connection with two existing CEAs.

In October 1995, NJDEP approved the CEA for metals (aluminum, silver, arsenic, cadmium, copper, mercury, nickel, lead, antimony, and zinc). The CEA was to expire on October 24, 2020, whereupon additional groundwater sampling would be required.

- In August 1996, NJDEP approved the CEA for VOCs. That CEA was set to expire in August 2006, and additional groundwater sampling was to have been required.
- In 1996, NJDEP issued a No Further Action letter for soil in selected AOCs. Remaining soil issues were to be addressed by a combination of a capping remedy, site access restrictions, and a deed notice.
- In 2005, certain metals and one VOC (methylene chloride) were identified during a 2005 BEE for the property at concentrations above screening values for groundwater (Tierra 2007)
- An MOA for the property between Delancy Associates and the NJDEP became effective on October 10, 2007.
- By the 2009 RIR, the property was owned by Delancy Associates, LLC, who had acquired the property from CCE in 2007. It was listed as part of New Jersey's Portfield's Initiative and registered as a Brownfield Site with the NJDEP (Matrix 2009).

3.4 400 Delancy Street Property (formerly USF Red Star)

The 400 Delancy Street property, a former USF Red Star (USF) trucking facility, was located in the southeast section of the City of Newark, Essex County, New Jersey, and was approximately 15 acres in size. It is located in the industrial "ironbound" section of the city at the intersection of Delancy Street with Routes 1 and 9 overpass. The topography of the property gently dips to the east, and all surface drainage is toward the east.

In 1994, USF contracted TTI Environmental, Inc. (TTI) to upgrade five underground storage tanks (USTs) at their property. During replacement of piping as part of this upgrade, 12 historical USTs were discovered, ranging from 1,000 to 4,000 gallons in capacity. The USTs contained residual gasoline or diesel fuels, and there was evidence of substantial soil contamination (TTI 1995). The historical USTs were estimated to have been in place prior to the 1970s, and the existing UST system was installed prior to 1982 (TTI 1997). NJDEP was notified, and an emergency removal of these USTs and associated piping was conducted. Reports describing this removal and subsequent remedial investigations and actions are summarized below.

3.4.1 Underground Storage Tank and Piping Closure and Corrective Action Report, September 1995

3.4.1.1 Description

TTI submitted the Underground Storage Tank and Piping Closure and Corrective Action Report to the NJDEP on September 27, 1995, on behalf of USF Red Star. NJDEP had approved the piping closure plan for the property associated with the UST upgrade plan. During the piping removal process, 12 historical USTs were discovered and subsequently removed by TTI.

3.4.1.2 Summary

- During removal of piping associated with the UST upgrade, groundwater with floating free product was encountered 3.5 to 4 feet below grade.
- Upon further investigation, additional free product was found in groundwater and soils. The 12 historical USTs were determined to be the source of the release.
- All the historical USTs and associated piping were removed along with the contaminated soil in the surrounding areas. The excavation was backfilled with clean material.
- Post-excavation TPH concentrations in soil samples ranged from 99 to 9,400 mg/kg. Six of the nine soil samples were above the 1,000 mg/kg NJDEP Further Action Level for diesel fuel impacted soils.
- No further excavation was carried out due to the existing groundwater level and the location of the excavation being adjacent to the five USTs being upgraded.
- Based on field observations, it was determined that six of the historical USTs contained gasoline.
- Post-excavation VOC analysis results indicated that targeted VOC concentrations ranged from 0.006 to 8.60 mg/kg, and non-targeted VOC concentrations ranged from Non Detected to 633 mg/kg. Total lead concentrations, ranging from Non Detected to 2,900 mg/kg, were also detected.
- Only two soil samples at location SO-8A and SO-9A (See Figure B-29 in Appendix B) had lead concentrations exceeding the NJDEP Cleanup Criteria of 400 mg/kg.
- Approximately 250 cubic yards of excavated soil was staged on site over 6-mil plastic sheeting and covered with the same sheeting. Potential reuse was not yet determined.

3.4.2 Remedial Investigation Report/Remedial Action Work Plan, July 1996

3.4.2.1 Description

An RI/RAWP was prepared for the 400 Delancy Street property by TTI and submitted to NJDEP on July 16, 1996. The purpose of this report was to determine the extent of residual contaminants in soil and groundwater around the removed gasoline/diesel fuel USTs; evaluate public health, environmental, and ecological impacts; and evaluate exposure to onsite receptors and potential offsite migration. The RI/RAWP was meant to address the directive issued by the NJDEP on November 2, 1995.

3.4.2.2 Summary

- Groundwater flow hydraulics based on limited aquifer test (slug tests) suggested that the property has an average hydraulic conductivity of 0.075 feet per day.
- The plume extent (see Figure B-30 in Appendix B) seemed to be contained on site.

- Subsurface soil analysis suggested that isolated high concentrations of TPH and lead were present. Most lead concentrations were above the NJDEP non-residential direct contact SCC, ranging from 10 to 1,800 µg/L.
- Groundwater analysis results showed high concentrations of benzene (up to 85.2 µg/L) and total xylenes (up to 546 µg/L) at locations adjoining and within the existing and historical UST areas. VOC concentrations were above NJDEP GWQSs in this area.
- Total tentatively identified compounds (TICs) were detected at concentrations above GWQS at a location adjoining the UST area and 2-methyl naphthalene, fluorene, and phenanthrene also had relatively high concentrations of 3,430, 419, and 593 µg/L, respectively.
- Total lead concentrations were detected above GWQS in almost all of the monitoring wells.
- Based on these analyses, a 2-year No Action Natural Remediation Compliance Program (NRCP) was recommended along with the establishment of a CEA. However, TTI suggested that if the plume enlarges or concentrations increase or reach relatively high asymptotic conditions, then active remediation would be required.

3.4.3 Remedial Investigation/Remedial Action Work Plan Addendum, January 1997

3.4.3.1 Description

An addendum to the initial July 1996 RI/RAWP was submitted to NJDEP on January 27, 1997 by TTI on behalf of USF Red Star. This addendum addressed the source of elevated lead concentrations detected at the property and remedial actions to be taken going forward.

3.4.3.2 Summary

- Subsurface soil lead results indicated spatially scattered hotspots not related to the UST contamination. This was attributed to potential historical fill material at the property.
- Almost 45 gallons of free product were recovered from the groundwater at the property.
- The 250 cubic yards of excavated and staged soils had been successfully bioremediated and could be used for onsite reuse.
- Dissolved phase groundwater results showed a limited spatial impact to groundwater quality. Benzene and lead were detected above GWQS at an offsite monitoring well, and the plume seemed to be contained on site at the time the addendum was prepared. Since the contamination was not considered to be related to onsite operations, No Further Action was recommended.
- It was recommended that the recovery and monitoring of free phase product be continued until completely removed. At that point, further groundwater sampling was to be used to determine closure of the case.

3.4.4 Remedial Action Work Plan Addendum, September 1998

3.4.4.1 Description

The 1998 RAWP Addendum was developed by TTI on behalf of USF Red Star. The investigation was done to evaluate the possibility of re-use of the previously excavated soils. Approximately 300 cubic yards of contaminated soils were removed from the property and staged on a large reinforced plastic tarp over a 65-feet by 80-feet area. The soils were contaminated with PAHs and total lead concentrations exceeding NJDEP SCC.

3.4.4.2 Summary

- Six soil samples were taken from within the soil pile and analyzed for PAHs and total lead.
- Most samples were below NJDEP SCC, but benzo(a)pyrene (122 mg/kg) exceeded non-residential SCC in almost all samples. Exceedances of lead occurred in two of the six samples.
- To confirm the existence of elevated PAH and total lead concentrations as a historical fill/background condition at the property, 11 more soil samples were collected from various locations around the property. Results showed elevated PAH and lead concentrations throughout the property, and several PAHs were above NJDEP SCC. This suggested that the soils staged at the property were acceptable for re-use.
- Upon approval from NJDEP, the intended re-use of the staged soils was to spread them as a thin layer over the easternmost gravel lots.
- TTI suggested that the soils be compacted and rolled and then capped with 4 to 6 inches of asphalt. It was also recommended that only a 180-feet by 180-feet portion of the easternmost lots be designated for the re-use area.

3.4.5 Remedial Action Work Plan Addendum, November 1999

3.4.5.1 Description

On November 22, 1999 TTI submitted another RAWP Addendum to the NJDEP on behalf of USF Red Star for their 400 Delancy Street property. This addendum addressed further actions based on an NJDEP directive dated October 22, 1998. Groundwater sampling and a BEE were conducted, results from which are summarized below.

3.4.5.2 Summary

- Due to the presence of a significant amount of free phase product in the UST area, a Free Product Recovery System (FPRS) was installed in the middle of the free product zone. Due to the continued presence of free phase product, it was recommended that free product recovery operations continue.
- When free phase product is no longer present in monitoring wells, sampling for volatile and semi-volatile organics was to be done on a quarterly or bi-annual basis.

- Because benzene concentrations were still exceeding NJDEP GWQS in monitoring well MW-4 (see Figure B-30 in Appendix B), TTI suggested that bi-annual sampling continue until benzene was below GWQS for two rounds.
- Total lead within monitoring well MW-8 (see Figure B-30 in Appendix B) reached non-detectable levels, so no further sampling was recommended at this location.

3.4.6 Underground Storage Tank Closure and Remedial Investigation Report, March 2000

3.4.6.1 Description

On March 3, 2000, the Underground Storage Tank Closure and Remedial Investigation Report was submitted to NJDEP by TTI on behalf of USF Red Star. The report described work done by TTI to close three regulated USTs by a December 22, 1998 deadline. The three USTs removed included one 3,000 gallon fuel oil UST No. 0018, one 2,000 gallon new motor oil UST No. 0019, and one 1,000 gallon waste motor oil UST No. 0020.

3.4.6.2 Summary

- Three USTs at the site were to be closed and removed, but since UST No. 0018 was surrounded by concrete, it was abandoned in place by pouring concrete slurry into it.
- Approximately 30 yards of contaminated soil was staged on poly sheeting for disposal.
- All the USTs appeared to be in good condition visually, but groundwater and soil in the waste oil UST excavation appeared to be contaminated. Post-excavation soil samples revealed TPH concentrations exceeding NJDEP SCC.
- Geoprobe sampling at the concrete encased UST showed elevated TPH levels along with arsenic, copper, total PCB, and benzo(a)pyrene exceedances.
- Upon evaluating these SCC exceedances relative to the existing soil contaminant concentrations associated with historic fill materials, it was suggested that there was no need to perform any additional soil remediation.
- TTI proposed the installation of two additional monitoring wells in the area of this UST closure. Both wells were to sample for VOCs and SVOCs. The well closest to the former UST No. 0018 would also be analyzed for metals and PCBs.
- Data from the monitoring wells would be used to determine if additional soil remediation would be required.

3.4.7 UST and Fuel Island Closure Report, October 2005

3.4.7.1 Description

The Underground Storage Tank and Fuel Island Closure Report was prepared for USF Red Star by TTI Environmental, Inc. The report describes the removal/closure of five 20,000-gallon diesel USTs and the decommissioning of the associated fuel dispensing island located at the 400 Delancy Street property.

3.4.7.2 Summary

- The concrete pad covering the UST field was removed, USTs were cleaned, and the five tanks were removed from the ground.
- After excavation and removal of USTs, 15 post-excavation soil samples were collected from the sidewalls of the UST excavation and 10 post-excavation samples and 1 piping run sample were collected from the fuel island excavation.
- Soil samples from the UST excavation did not demonstrate any exceedances of NJDEP SCC.
- Two samples from the fuel island excavation had TPH concentrations exceeding 10,000 mg/kg SCC limit and were subjected to additional volatile organic analyses, which did not indicate any TPH concentrations above the NJDEP SCC. Two other samples that had high levels of TPH were remediated, and post-remedial sampling revealed no TPH exceedance above NJDEP SCC.
- Based on these results a No Further Action would be submitted for the closure of the USTs and the fuel island.
- Free phase product was observed in the groundwater in the UST and fuel island excavations, but no groundwater investigations were conducted as part of the closure.

3.4.8 Soil Disposal Report, October 2005

3.4.8.1 Description

The Soil Disposal Report was submitted to the NJDEP on October 21, 2005 by TTI. The report describes soil disposal activities related to the disposal of soils staged at the 400 Delancy Street property until October/November 2004. Soils from all previous excavations had been stockpiled on site on a plastic sheet in the southern portion of the property. The closure of historic USTs had generated approximately 350 cubic yards of soil and 150 cubic yards of soil was added to the stockpile subsequently in 1995.

3.4.8.2 Summary

- Based on results of previous investigations, the NJDEP had agreed that soils underlying the property are considered historic fill.
- The re-use of the excavated historic fill soil was approved with the provision that appropriate engineering and institutional controls would be in place. The proposed re-use was decided to be as a sub base layer for asphalting of the area where the soils were staged.
- In October/November 2004, TTI removed all the stockpiled soils generated from previous UST removal operations. Approximately 1,895 tons of soil, mostly of unknown origin, was transported to Interstate Materials Corporation, Staten Island, New York for disposal.
- Approximately 566 tons of asphalt debris was transported to Gold Start Recycling, Inc., Morganville, New Jersey for recycling.

- Two roll-offs of construction and miscellaneous debris was transported to T. Fiore Demolition Inc., Newark, New Jersey for processing.
- This concluded removal of all impacted soils from the property relating to historic UST removal and remedial activities at the property.

3.4.9 Groundwater Remedial Investigation Report, October 2005

3.4.9.1 Description

The Groundwater Remedial Investigation Report was submitted to the NJDEP at the same time as the submittal of the Soil Disposal Report. Additional site investigation activities carried out at the 400 Delancy Street property by TTI on behalf of USF Red Star were discussed in this report. The need for these site investigations arose from a 2003 inspection that identified several tasks that required further action. This included damaged manhole covers, no groundwater analytical data since 1999, and re-evaluation of free product recovery.

3.4.9.2 Summary

- All well manholes and concrete collars were repaired.
- A new round of groundwater sampling was conducted to bring groundwater data up to date.
- The FPRS had been out of service for several years, but no free phase product was detected in key monitoring wells, so there was no further need for a product recovery system.
- Based on the groundwater analysis results, semi-annual sampling of several wells was recommended as well as quarterly monitoring of key wells to identify re-emergence of free phase product.
- If groundwater contamination remained consistent with the 2005 levels and no free phase product was detected by the end of 2006, USF Red Star would submit a request for No Further Action with a CEA.

3.4.10 Underground Storage Tank Closure Report, November 2005

3.4.10.1 Description

TTI was contracted by USF Red Star to close one 15,000-gallon No. 4 oil tank at their former trucking terminal located at 400 Delancy Street. This particular tank was located in the basement at the northwestern end of the terminal building, but based on its configuration, it met the regulatory definition of an underground tank system. It was installed in a concrete vault on saddles and filled to the top with sand.

3.4.10.2 Summary

- Unused product from the tank was transferred to a temporary onsite tank.
- Residual liquids and sludge generated from cleaning the tank were removed and transported to an offsite facility for disposal in Wilmington, DE.

- Sand removed from the UST was removed by a sub-contractor and staged on site for future disposal.
- The tank itself was dismantled and disposed of as scrap.
- The vault housing the tank did not have any cracks, breaks, or visual issues that could allow an unwanted release of product.
- Vault soil was staged on site with other soils, and the removal/disposal of all these staged soils is discussed in the Soil Disposal Report of 2005.
- A No Further Action designation was recommended for the UST closure efforts described in this report.

3.4.11 Remedial Investigation Report: 2006 Groundwater Assessment Activities, April 2007

3.4.11.1 Description

Groundwater assessment and monitoring activities were conducted by TTI at the 429 Delancy Street property, now owned by YRCW Enterprise Services, Inc. (YRCW). The continuing groundwater monitoring presented in the report was based on the recommendations made to the NJDEP in the Groundwater Remedial Investigation Report of October 2005. In June 2006, NJDEP had issued a response letter entailing groundwater investigations that are included in this report.

3.4.11.2 Summary

- Two rounds of groundwater sampling and analysis were conducted at the property in 2006: one in May and one in October/November.
- In May 2006, monitoring wells MW-2, MW-3, MW-4, MW-5, MW-10, MW-11, and MW-12 (see Figures B-30 and B-31 in Appendix B) for VOCs and SVOCs. Only one exceedance of NJDEP GWQS was detected for benzene at MW-4.
- All the May 2006 wells with the addition of monitoring well MW-8 were sampled in October/November 2006, with lead analysis also conducted for monitoring wells MW-4, MW-8, and MW-10.
- For the latter sampling event of October/November 2006, results revealed lead exceedances in monitoring wells MW-4, MW-8, and MW-10. Benzene exceedance was detected in MW-4 but at a lower concentration than in the May 2006 event.
- Several PAHs were above GWQS in monitoring well MW-11, which may have been a result of the UST release or from PAH concentrations of the background fill.
- A CEA was calculated for the property based on the 2006 data. TTI recommended that the CEA be accepted and a No Further Action designation be granted for site groundwater. Biennial CEA certifications were suggested until the CEA was removed.

3.4.12 Soil Remedial Investigation Report, May 2008

3.4.12.1 Description

In accordance with the NJDEP response letter from June 2006, soil investigation activities were conducted at the 400 Delancy Street property, now a hardware/lumber yard/building materials store, a transport operation, and a truck repair facility owned by YRCW. The transport operation and truck repair facility were located in the area where historical remedial activities had been carried out.

3.4.12.2 Summary

- Soil samples were collected in keeping with the scope of work outlined in the June 2006 NJDEP response letter.
- Analytical results for most of the soil samples were below NJDEP SCC.
- Two samples contained concentrations of some PAHS above SCC. However, these concentrations were within the accepted range for historic fill, and the presence of historic fill at the property had already been acknowledged by NJDEP. Hence these PAH detections were attributed to the historic fill at the property.
- TTI recommended a No Further Action to be granted for the soils at the property.

3.4.13 Regulatory History

- On May 26, 1994, the NJDEP issued Closure Approval No. C94-1001 for the removal of piping associated with the UST upgrade being conducted at the 429 Delancy Street property.
- TTI obtained a construction permit from City of Newark for upgrading five USTs and removal of associated piping at the property on September 14, 1994.
- During piping removal, TTI discovered historical USTs and associated oil and diesel fuel contamination in soil and groundwater. TTI notified the NJDEP of the release who assigned it a Case No. 94-09-15-1618-25.
- On November 2, 1995, the NJDEP issued a directive to USF Red Star in response to the Underground Storage Tank Closure and Corrective Action Report submitted on September 27, 1995. The directive requested the implementation of additional RI in order to prepare an Effectiveness Analysis and Certification (EAC) and a RAWP. (TTI 1996)
- On February 20, 1997, the NJDEP issued a notice regarding the non-applicability of the ISRA to the 400 Delancy Street property.
- NJDEP approved a UST system closure for three USTs on November 13, 1998, and a municipal permit (Permit No. 983603) from the City of Newark was obtained on December 3, 1998. During this closure, a release was observed and reported to the NJDEP who assigned it the case number 98-12-23-1034-32 (TTI 2000).

- In October 2003, NJDEP approved closure of the UST system in the basement of the facility building (TTI 2005d).
- On March 18, 2005, NJDEP issued a Closure Notification Approval No. N05-3872, and a subsequent construction permit from the City of Newark was obtained for the closure activities described in the UST and Fuel Island Closure Report of October 2005 (TTI 2005a).
- On February 26, 2007, the NJDEP issued a Notice of Administrative Revocation to USF Red Star, stating that no activities requiring a permit under the NJPDES permitting program were being performed at the property anymore. The NJPDES permit was revoked effective March 20, 2006.
- On October 15, 2008, the NJDEP issued a Notice of Administrative Revocation to the YRCW trucking company, and their NJPDES permit was revoked effective August 20, 2008.

3.5 338 Wilson Avenue Property (Formerly Albert Steel Drum / Prentiss Drug & Chemical, and others)

The 338 Wilson Avenue property, formerly known as the Prentiss Drug & Chemical / Albert Steel Drum (ASD/PDC) property is located at the southeast corner of the Wilson Avenue and Avenue L intersection, with a street address of 338 Wilson Avenue, Newark, Essex County, New Jersey (Figure B-32 in Appendix B). The property consists of three parcels of land designated as Block 5038, Lots 70, 108, and 109.01 of the City of Newark Tax Assessor's map.

Between the early 1900s and 1951, insurance maps show that the present day Troy Chemical Corporation and ASD/PDC facilities were part of the same property. The property was divided into its present day dimensions in the early to mid-1950s, and aerial photographs from 1961 and 1970 appear to indicate the use of the 338 Wilson Avenue property by the reportedly active Troy Chemical Corporation. The two main occupants of the property following Troy Chemical's occupation of the property include Albert Steel Drum Company, which operated a drum reconditioning and recycling business from 1974 to 1977, and the Prentiss Drug & Chemical Company, which manufactured pesticides on the property from 1956 to 1982 (Figure B-33 in Appendix B). From 1984 to 1985, T. Fiore & Sons used the property for demolition debris disposal and an onsite building for vehicle storage and repair (TRC Environmental Corporation [TRC] 1993).

The property was sold to the Newark Redevelopment and Housing Authority (NRHA) in 1980 by the Pulaski Skyway Realty Corporation (Pulaski), at which time the NJDEP Division of Water resources initiated an environmental investigation. From 1987 through 1993, an RI/FS was conducted at the property on behalf of EPA and NJDEP by TRC . Site soils were found to be contaminated with VOCs, PAHs, pesticides, PCBs, dioxins, and metals. In 1994, NJDEP issued a Record of Decision, which recommended cleanup activities, including excavation of impacted "hotspots" and sediments and construction of a 1.5-feet thick cap over the entire property.

NRHA sold the property to Tony Pallet, Inc. in 2000, which entered into an Administrative Consent Order (ACO), which specified the responsibilities of Tony Pallet, Inc. for continued implementation of the remedial action.

Tony Pallet, Inc., having remediated the PCB-contaminated sediments in Pierson's Creek drainage ditch, which originates on the 338 Wilson Avenue property, sold the property to The Morris Companies in 2004, who currently own the property. Presently, the property is developed with a Federal Express distribution facility. On November 22, 2004, the NJDEP issued a letter formally approving the soil component of the remediation that included a site-wide engineering control (in the form of an impervious cap) and a site-wide deed notice as the institutional control.

3.5.1 Phase II Dioxin Site Investigation – Final Report, December 1985

3.5.1.1 Description

Identified as a potentially dioxin-contaminated property during Phase I of the Dioxin Site Investigation Program, a joint NJDEP and EPA endeavor, Phase II of the program included PDC in the dioxin contamination identification and assessment. Due to PDC's purchase of technical grade Lindane from 1953 through June 1982, as well as the production of pentachlorophenol (PCP), both dioxin associated chemicals, PDC was selected for investigation as having a reasonable probability of halogenated dibenzo-p-dioxins.

According to PDC, wastes associated with Lindane formulation included empty fiber drums and liners, filter media, spill disposal media, and floor sweepings. During a June 1977 inspection, an NJDEP representative observed that floor drains at the PDC facility discharged to the ground adjacent to the building, and process wastewater was discharged to the sanitary sewer.

Based upon the background investigation and site visit, four locations were proposed for sampling: the area around the existing building, the areas adjacent to a former structure, the central area of the property, and Pierson's Creek.

On May 14, 1985, E.C. Jordan Co. collected five surface soil samples (Figure B-34 in Appendix B) for analysis of 2,3,7,8- Tetrachlorodibenzodioxin (2,3,7,8-TCDD). Unfortunately, site conditions necessitated a complete revision of the sampling plan from the proposed sampling locations, and the five samples were collected from around the PDC onsite structure.

3.5.1.2 Summary

- Utilizing "Dioxin Analysis, Soil/Sediment Matrix Multi-Concentration using Selection Ion Monitoring (SIM) GC/MS Analysis with Jar Extraction Procedure" (EPA standard), the results of the 2,3,7,8-TCDD analysis detected the analyte, up to 2.7 parts per billion (ppb), in four of the five surface (0- to 0.5-foot) soil samples collected. At two locations, the measured concentrations were below the action level of 1 ppb for TCDD utilized by NJDEP at the time.

- An additional sample and its duplicate, 19-1 and 19-2, contained 2.7 and 1.7 ppb of 2,3,7,8-TCDD, respectively.

- Due to the concentrations measured at sample location 19, E.C. Jordan Co. recommended additional sampling at the property. Further sampling should focus on the NE corner of the PDC building and the loading dock areas as well as the other proposed areas to which access was not gained due to site conditions at the time.

3.5.2 Final Background Investigation – Interim Report, March 1987

3.5.2.1 Description

This report by TRC presents the Task 1- background information results from the RI/FS.

3.5.2.2 Summary

- The property was historically used by a pesticide manufacturing facility (PDC) and a drum reconditioning facility (ASD). The property was used by T. Fiore & Sons as a construction debris dump between 1984 and 1985.
- Dioxin, heavy metals (especially mercury), pesticides, and VOCs have been found on the property.
- An inspection of the 338 Wilson Avenue property, conducted in May 1979 by the City of Newark's Department of Engineering, observed drums of chemicals and piles of greyish powder along with plastic bags marked "Troysan – Mercury Acetate – Poison – subject to bacterial decomposition" throughout the property.
- A sample of the grey powder was analyzed and found to contain phenyl mercuric acid and mercury, the concentration of mercury given as 0.5 percent mercury. The City of Newark Department of Engineering then contacted the NJDEP, requesting involvement.
- EPA reportedly sampled several points along Pierson's Creek and random puddles and sediments on the 338 Wilson Avenue property in June of 1979. All samples analyzed from the property had elevated levels of mercury (up to 191 ppm in sediment and 55 µg/L in surface water), with higher concentrations observed in downstream sediment samples. EPA then sampled further downstream at Troy Chemical in July 1979, and sediment sample mercury concentrations were as high as 22,400 mg/kg, with 95 µg/L benzene in stream water samples.
- In 1980 NJDEP Division of Water Resources conducted an investigation at the property, consisting of 20 soil borings and 80 soil samples. One soil boring was stopped when highly contaminated groundwater was encountered. Another boring encountered a drum at 2 feet bgs containing a clear, thick, viscous liquid. ASD structure had a 10-feet by 15-feet (surface dimensions, depth unknown) pit containing a thick black liquid. Metals, pesticides, volatile organics, PCBs, and pesticides were detected across the property.
- In May 1985, an additional investigation was conducted as part of NJDEP's Phase II Dioxin Investigation program. Five samples were collected from low-lying areas around the PDC building; analysis of same indicated low (0.47 to 2.7 ppb) concentrations of 2,3,7,8-TCDD in four samples. These samples were collected from the northeast and northwest corners of the building.
- A follow-up investigation was conducted by NJDEP in June 1985. Hand augers were used to collect samples of native soil beneath the surficial fill materials. Twenty-six soil/sediment and wipe samples were collected from a variety of potential transport locations to existing and previous structures on site. Samples were analyzed for 2,3,7,8-TCDD while six samples were analyzed for priority pollutant analysis. Three samples had 2,3,7,8-TCDD

concentrations greater than 1.0 ppb, the highest concentration being 214 ppb. Concentrations less than 1.0 ppb of dioxin were also detected.

- Pesticide compounds up to 9.0 ppm, two PCB compounds at 13 and 16 ppm, and base/neutral compounds were detected. Concentrations of fluroanthene at 117 ppm, benzo-(k)-fluroanthene at 115 ppm, and benzo-(a)-pyrene at 83.8 ppm were detected in a sample collected from a blue-stained area at the southwest corner of the PDC structure.

3.5.3 Phase II Remedial Investigation Report, March 1993

3.5.3.1 Description

TRC conducted a Phase II remedial investigation between May and October of 1991 across approximately 9 acres of the 338 Wilson Avenue property. TRC's Phase II consisted of electromagnetic and radiation surveys; soil borings and installation of monitoring well clusters; surface soil, surface water, sediment, and groundwater sampling on and off site; and collection of samples of PDC building surfaces, materials, and suspected asbestos containing material (ACM).

3.5.3.2 Summary

Soil

- VOCs were detected in nearly all of the soil samples, with methylene chloride and acetone being the most commonly detected. Laboratory contamination was the suspected source of the methylene chloride and acetone, as they were also detected in the field and trip blanks.
- VOCs in the surface soils (Figure B-35 in Appendix B) collected off site were detected in generally low ppb concentrations (25 to 101 ppb).
- The highest level of VOCs detected on site were located at the far west of the property where the auto parts business existed.
- PCE (120 to 12,000 ppb), 1,1-DCA (20 to 120 ppb), carbon tetrachloride (190 ppb), TCE (64 to 4500 ppb), total 1,2-DCE (23 to 12,000 ppb), and vinyl chloride (2,200 ppb) were detected in the subsurface soils above detection limits in the southwestern and southeastern portions of the property.
- Chlorobenzene (230 to 8,600 ppb) and the BTEX (78 to110,000 ppb) compounds were detected in subsurface soils to the western and southern portions of the property most commonly.
- SVOCs were detected in concentrations ranging from 0 to 316,700 ppb in soils across the property, with the highest concentrations noted in the central portion of the property near a large debris pile (Figure B-36 in Appendix B). No surface soil samples exceeded the proposed 10,000 ppm total organic compound soil cleanup standard while two subsurface samples were in exceedance. The report is not clear on the source of the 10,000 ppm soil cleanup standard.
- Pesticides were detected in both surface and subsurface soil samples, with higher concentrations detected near the PDC building and near the center of the property. Analysis of surface soil sample B7-5, collected from near the northeast corner of the PDC building at

a depth of 5 to 6 feet bgs, revealed the highest concentration in subsurface soils sampled at 517 ppm total pesticides. Surface soil sample located at B-47 contained 17.4 ppm total pesticides.

- Total PCBs, particularly Aroclor 1254, were detected in concentrations exceeding the NJDEP non-residential soil cleanup standard of 2 ppm across the property, with the highest concentrations near two concrete foundations in the south-central area of the property (Figure B-36 in Appendix B).
- Concentrations of arsenic (100 to 6,527 mg/kg), copper (non-detect to 3,100 mg/kg), lead (non-detect to 6,160 mg/kg), zinc (non-detect to 2,890 mg/kg), cadmium, chromium, mercury (922 to 2,770 mg/kg), thallium, and cyanide in both on and offsite samples exceeded the non-residential cleanup standard. Arsenic and lead were the most prevalent inorganics in the site soils.
- Four surface soil samples collected during Phase I and II exceeded 20 ppb of dioxin while one subsurface sample (from Phase I) exceeded the standard.
- Elevated levels of radium-226 and thorium-232 were found in soils near crucibles discovered in the northern area of the property (Figure B-37 in Appendix B). Crucibles were also discovered in the central portion of the property; the surrounding soils exhibited low radiation levels.

Sediments and Surface Water

20 sediment and 9 surface water samples were collected throughout Phases I and II of the RI. The samples were collected from an onsite pond area, an onsite standing water area, and the Pierson's Creek drainage area both on and off site.

- VOCs were detected in all sediment and surface water samples. VOCs were detected in sediment at concentrations greater than 500 ppm. VOCs in surface water exceeded ambient water quality criteria for several VOCs, including PCE (up to 540 µg/L), TCE (up to 170 µg/L), chloroform, vinyl chloride (up to 16 µg/L), and benzene (up to 10 µg/L) (Figure B-38 in Appendix B).
- SVOCs were detected at elevated levels on site and to the south of the property. PAH levels (non-detect to 1,164 ppm) exceeded sediment quality criteria, and SVOCs were detected in all surface water samples (Figures B-39 and B-40 in Appendix B).
- PCBs (up to 241 ppm total PCBs) and pesticides (up to 160.2 ppm total pesticides) were detected in nearly all of the sediment and surface water samples. Twelve of the 14 sediment samples collected contained detectable levels of pesticides, and 13 of the 14 sediment samples contained detectable levels of PCBs. Three of the five surface water samples contained detectable levels of pesticides, and all five of the samples exceeded surface water quality criteria for PCBs (Figures B-41 to B-43 in Appendix B).
- The following inorganic compounds were detected at levels exceeding the NJDEP ambient water quality criteria for the nine surface water samples collected during Phase I and II:

- Aluminum (nine samples, up to 2,150 µg/L)
- Arsenic (two samples, up to 3,600 µg/L)
- Cadmium (five samples, up to 378 µg/L)
- Chromium (three samples, up to 15.1 µg/L)
- Copper (nine samples, up to 218 µg/L)
- Iron (seven samples, up to 14,700 µg/L)
- Lead (nine samples, up to 307 µg/L)
- Manganese (seven samples, up to 1,290 µg/L)
- Mercury (nine samples, up to 37.6 µg/L)
- Zinc (eight samples, up to 654 µg/L)
- Cyanide (one sample, up to 13.9 µg/L)

- Dioxin was detected (0.9 ppb, 0.2 ppb) in samples collected from the north and south of Pierson's creek on the property, respectively.

Groundwater

During Phase II, 21 monitoring wells of varying depths (shallow at a maximum 15 feet bgs, intermediate at a maximum 38 feet bgs, and deep at a maximum of 72 feet bgs) were installed and sampled. In October, 1991, all 21 Phase II wells, as well as six Phase I wells, were sampled. See Figure B-44 in Appendix B for locations of all installed monitoring wells. Later, in February, 1993, seven monitoring wells were sampled to verify the results from the 1991 event. Ten of the well nests are located on site, and four well nests are located off site in both upgradient and downgradient locations to evaluate background groundwater quality and potential offsite impacts from onsite contamination.

- VOCs were frequently detected in samples from shallow zone wells (less than 15 feet bgs). With the exception of one onsite well and two offsite wells (all depth intervals), VOCs were detected in samples from all wells. VOC concentrations ranged from 3,000 ppb for trichloroethene to 35,170 ppb for total organics.

- SVOCs were detected in shallow groundwater at the property, predominantly in the southern and western areas of the property. Proposed cleanup standards were not exceeded in the shallow wells. The bedrock well SVOC concentrations (up to 393 ppb total SVOCs) were among the highest detected in groundwater at the property.

- Pesticides were detected in the groundwater samples from four of the shallow wells (up to 6.4 ppb total chlordane), and PCBs were detected in one shallow well (8.7 ppb). Two wells in the intermediate zone had low levels of pesticides (up to 0.031 ppb), and one well

contained low levels of PCBs (up to 0.49 ppb). PCBs and pesticides were not detected in any of the deep wells.

- The highest levels of inorganics were detected in wells in the shallow zone in the southern portion of the property and off site to the south and east. Arsenic levels (up to 40,100 ppb) were highest in wells near the PDC building and to the south of the PDC building. Cadmium, chromium, lead, and mercury were detected in the shallow wells at the southern portion of the property. Elevated levels of inorganics were not detected in any of the deep wells or the bedrock well.
- No groundwater samples collected on or off site contained detectable levels of dioxin. Samples analyzed for radiological parameters did not exceeded federal drinking water standards.

Building Surfaces and Materials

Samples of various surfaces and materials were collected from inside of the PDC building.

- Dioxin was detected in measurable amounts (up to 0.8 ppb) in floor residue and one powder sample. One brick sample had elevated levels of TPH (8,400 ppm), one brick sampled had PCBs (190 ppb), and pesticides were detected in two wipe samples. Asbestos was identified throughout the building.
- Other site structures and debris were sampled and most contained elevated amounts of one or more of the following: VOCs, SVOCs, pesticides, PCBs, lead, and mercury.

3.5.4 Asbestos Removal and Building Demolition Remedial Action Report, October 1995

3.5.4.1 Description

In accordance with an Administrative Consent Order issued June 1995, demolition of the former PDC building, a 2-story brick structure in the central portion of the 338 Wilson Avenue property, was conducted between August 14 and September 26, 1995.

The ACO specified the demolition of the onsite structure, the segregation of waste streams, and offsite disposal of the debris. The work was performed by Cytec Industries Inc. and Prentiss Incorporated through a contractor, IDM Environmental Corp (IDM). The contractor's actions were overseen by NJDEP, Cytec, and the consulting firm, Blasland, Bouck & Lee, Inc.

3.5.4.2 Summary

The demolition of the onsite 2-story former PDC building was completed, satisfying the following applicable regulations:

- Administrative Consent Order of June 1995
- New Jersey Administrative Code (N.J.A.C.) 7:26E – Technical Requirements for Site Remediation
- June 13, 1995 – Work Plan Prepared by IDM and July 17 Addendum No. 1

The demolition program resulted in the disposal of 101 loads and 1,750 tons of debris as summarized below:

- ACM Building Debris – 71 loads, 1,375 tons
- ACM Building Asbestos – 2 loads, 30 tons
- Building Steel – 19 loads, 185 tons
- Building Timbers – 9 loads, 160 tons

3.5.5 Remedial Action Report, November 1998

3.5.5.1 Description

Prentiss, Inc. retained the services of Sadat Associates to perform the remediation of three hot-spot areas (Figure B-45 in Appendix B). Two hotspots (Areas 1 and 2) were located at the northeast corner of the former PDC building and another (Area 3) was located at the southwestern corner of the foundation from the previous ASD building. Area 1 soils exceeded the site-specific 20 ppb criteria for dioxin in surface soils. Area 2 soils underlying Area 1 were left in place (pesticide contamination) due to its presence in the groundwater table. Area 3 was identified from TRC's 1993 Phase II RI where arsenic concentration at 5 to 6.5 feet bgs was 113,000 ppm.

3.5.5.2 Summary

- Area 1 soils (Figure B-46 in Appendix B) were excavated in two stages after one post-excavation sample was found to contain 64.983 ppb total dioxin equivalents, exceeding the site-specific cleanup criterion of 20 ppb. No bottom of excavation sample was collected due to groundwater intrusion.
- Area 2 soils (pesticide contamination at 517 ppm total pesticides) were not excavated because, per the NJDEP-approved RAWP, groundwater was encountered before the contaminated soil interval. A No Further Action determination was requested for Area 2.
- NJDEP approved a site-specific cleanup criteria for arsenic (Area 3) because of the presence of historic fill across the property. The criteria was established with an average post-excavation sample result of 300 ppm or less (10 times the site average of 30 ppm) and a maximum concentration of 1,098 ppm for individual samples.
- Area 3 soils were excavated in three stages. The interval identified by TRC in 1993 with arsenic contamination was 5 to 6.5 feet bgs. Overburden soils were separately stockpiled for return to the excavation. The average concentration of arsenic in the five post-excavation samples following stage 1 excavation was found to be 2,248 ppm, exceeding the 300 ppm criteria.
- Twelve soil borings were installed around Area 3 to delineate the contamination to an average arsenic concentration of 100 ppm, followed by excavation. Excavation uncovered subsurface brick walls which, post-sample analysis, were thought to act as arsenic contamination boundaries.

- Dewatering of the Area 3 excavation was required for Stages 2 and 3 of the excavation, still targeting the 5 to 6.5 feet bgs interval. 14,550 gallons of water were generated and disposed of during stages 2 and 3.
- Area 3 Stage 2 post-excavation samples resulted in average arsenic concentrations of 6,527 ppm, with five of the 12 samples exceeding the maximum permissible concentration of 1,098 ppm.
- NJDEP approved the use of the contaminant delineation following Stage 1 results as sidewall samples for Stage 3. Stage 3 excavation of Area 3 proceeded to the southwest in a triangular shape to encompass soil boring B16 (Figure B-47 in Appendix B).
- The average arsenic concentration along the excavation perimeter, excluding samples collected at the northwest of the property where a sewer was observed, was calculated to be 281.79 ppm following Stage 3, below the site-specific 300 ppm criteria.
- A total of 210 tons of dioxin-contaminated soil from Area 1 and 145 tons of arsenic-contaminated soil from Area 3 were transported and disposed of off site.

3.5.6 Groundwater Investigation, January 2000

3.5.6.1 Description

Groundwater sampling and water level measurements occurred at the 338 Wilson Avenue property during the week of May 17, 1999. The sampling event was conducted to fulfill the requirements of the Record of Decision (ROD), determine whether contaminant concentrations were continuing to decline over time, and gather data from selected wells to determine if organic compound biodegradation was occurring. All of the wells (Figure B-48 in Appendix B) were sampled for Target Compound List (TCL) VOCs, TCL SVOCs, Target Analyte List (TAL) metals, pesticides/PCBs, and water quality parameters. Two monitoring well clusters (MW-5 and -8) were also analyzed for alternate electron acceptors using field methods. Water level measurements were also taken. This report summarizes the results of the groundwater sampling event.

3.5.6.2 Summary

- Water level data collected in 1991, 1997, and 1999 are all consistent with evidence of a groundwater divide in the vicinity of the property boundary between the 338 Wilson Avenue property and its southerly neighbor Troy Chemical. Groundwater on site flows to the north, whereas groundwater on the Troy Chemical site flows to the south.
- VOC concentrations in the groundwater are highest (up to 6,952 µg/L at monitoring well MW-13) in the southern portion of the property, with concentrations decreasing in the downgradient (north) flow direction along the property boundary. TCE and vinyl chloride concentrations exceeded the GWQS (1 and 5 µg/L, respectively) in the northeastern corner of the property (2J and 9J µg/L, respectively, at monitoring well MW-3S).
- VOC concentration decreases, the presence of dissolved oxygen (DO), alternate electron acceptors, and biodegradation byproducts, between 1991 and 1997, indicate that biodegradation of VOCs is occurring.

- Biodegradation of VOCs appears to be occurring very slowly, possibly attributable to low concentrations of some alternate electron acceptors.
- Arsenic concentrations appear to be increasing (from 5.7 to 693 µg/L) in monitoring well MW-1D, along Wilson Ave north of the former PDC building.

3.5.7 Field Sampling and Analysis Report for the Albert Steel Drum Site, June 2000

3.5.7.1 Description

In March and April, 1999, L. Robert Kimball and Associates divided the property into identifiable areas and conducted soil and sediment sampling across the 338 Wilson Avenue property. The junkyard area (VOC hotspot, western-central portion of property), the upper reach of Pierson's Creek (estimated 3,000 square feet [sq ft] of contaminated sediment), the tank area (approximately 2,000 sq ft soil VOC contamination), the test pit TP-4C area (near ASD's operations, southwest of property, approximately 325 sq ft PCB-contaminated soil), and at boring B-33 area (north of ASD building, near large concrete foundation) were all sampled (Figure B-49 in Appendix B).

Samples were collected to support contaminant delineation and classification for treatment design and offsite disposal.

3.5.7.2 Summary

- **Junkyard area**: Groundwater was found at depths from 4.5 to 5.5 feet bgs. No samples exceeded the 1,000 ppm preliminary remediation goal (PRG) for VOCs; the highest VOC concentrations was 920.80 ppm. One classification sample (for treatment design) exceeded the TCLP criteria for lead at 6.64 ppm.
- **Pierson's Creek area**: Five sediment and one classification sample were collected at 2.5 feet bgs. The highest result for PCBs returned 580 ppm (the PRG is 50 ppm), but all five samples exceeded the PRG. The classification sample results were below RCRA classification criteria.
- **Tank area**: Groundwater was found from 1 to 2.7 feet bgs, and the PRG for volatiles was not exceeded for any of the 16 soil samples.
- **Test Pit TP-4C area**: Groundwater was found from 2 to 4.5 feet bgs in this area, and many drums and drum fragments were discovered in test pits. Two of the 14 samples analyzed were above PRG for volatiles, and the classification results did not exceed RCRA classification criteria.
- **Boring B-33 area:** Ten soil samples from five test pits were collected in this area. Five samples exceeded the PRG for PCBs, with the highest concentration at 149 ppm. RCRA classification criteria were not exceeded.

3.5.8 Drainage Ditch Remedial Action Report, May 2004

3.5.8.1 Description

Prior to commencing remedial actions in Pierson's Creek on the property, Pierson's Creek appeared as a shallow drainage ditch. Groundwater had leached to the surface at the southern portion of the Creek on the property. Remediation of the impacted soils was performed over several excavation events, and excavated soils were staged in two separate stockpiles for waste characterization and disposal. Post-excavation samples were collected from sidewalls and from beneath the concrete box culverts at 50 feet and 30 feet staggered intervals (Figure B-50 in Appendix B). Samples were strategically analyzed for PCBs, arsenic, mercury, and pesticides. Eight bottom of excavation samples were collected, and analysis returned results below the 50 ppm PCB action criteria. Sidewall excavations were continued until post-excavation sampling analysis results were below the 50 ppm PCB criteria. Excavated soils were disposed of off site between December, 2003, and January, 2004.

3.5.8.2 Summary

- The groundwater was pumped to holding tanks to expose the creek's bottom.
- The top 2 to 3 feet of soil in the northernmost 200 feet of the creek were removed and set aside. The underlying soils were removed to a discovered concrete box culvert approximately 8 feet by 4 feet. The concrete box culvert terminated approximately 100 feet north of the southern property border (Figure B-50 and B-51 in Appendix B).
- The soils in the southern 100 feet of the creek differed from the soils in the box culvert and were stockpiled separately after excavation. Approximately 10 to 12 feet bgs, a concrete pad was discovered in the southern 100 feet of the creek along with evidence of the removal of a knee wall on the western side.
- Where concentrations exceeded the 50 ppm PCB action level, approximately 1 additional feet of soil was excavated. Five sidewall samples were collected from the extended excavation.
- Of the five sidewall samples, two exceeded the PCB action level. At these locations, soil borings were performed approximately 2 feet from the edge of the creek's slope to delineate the contaminant extent.
- Using a Bosch hammer-drill and hand tools, bottom of excavation samples were collected from 0 to 6 inches below the concrete drainage ditch bottom. All samples were below the 50 ppm PCB criteria.

3.5.9 Remedial Action Report – Albert Steel Drum Site, August 2004

3.5.9.1 Description

Remedial actions were undertaken by the Morris Companies in accordance with the RAWP, the RAWP Amendment, and the relevant requirements of the NJDEP Field Sampling Procedures Manual and the New Jersey Technical Requirements for Remediation. Between September 2001 and January 2004, Malcolm Pirnie and its subcontractors conducted the remedial action on the 338 Wilson Avenue property, including excavation and disposal of contaminated soils across the

property and deposition of recycled concrete aggregate (RCA) on the property for use as the site cap.

3.5.9.2 Summary

- Two locations, centered around soil borings from the pre-remedial investigation, were excavated in 10 feet by 10 feet VOC hotspot areas to the groundwater table (depths of 9 and 10 feet bgs) in the junk yard (central-western) area of the property. Excavated soil was stockpiled for future disposal. The total VOC concentration was below the site-specific 1,000 ppm total VOC concentration.

- Excavation of soil from west of the leased onsite vegetable oil processing facility was conducted to approximately 5 feet bgs where groundwater was encountered. Pre- and post-excavation sample analysis results were below the site-specific total VOCs cleanup criteria.

- VOC-contaminated soils were excavated from the northeast corner of the former ASD property to the groundwater table, which was encountered at approximately 5.5 feet bgs. Excavated soils were stockpiled for future disposal, and the extents of the excavation were previously delineated by New Jersey Institute of Technology (NJIT), and no post-excavation samples were collected.

- PCB-contaminated sediments in Pierson's Creek were previously excavated and disposed of by NJIT and documented in the Drainage Ditch Remedial Activities Report dated May 2004.

- PCB-contaminated soil located west of the leased onsite vegetable oil processing facility were excavated, with post-excavation sidewall samples collected at a frequency of one sample per 30 linear feet of sidewall. One sample exceeded the site-specific 50 ppm PCBs criteria, and excavation was expanded. Two sidewall samples were later collected, the analysis results of which were below the site-specific cleanup criteria. Excavated soil was stockpiled for later disposal.

- Tony Pallet, Inc. removed two on site USTs from the tank area in 2001. During excavation to groundwater (approximately 4.5 feet bgs) of the tank area soils, a third UST was discovered and removed. No free product or sheen was observed on the groundwater. Total VOC concentrations from nine tank area sidewall samples did not exceed the site-specific 1,000 total VOC criteria. Highest total VOC concentrations from all sidewall samples were 429.6 ppm.

- Two ASTs were removed from the property, one located near Pierson's creek and one near the drum reconditioning pad associated with the previous ASD operations. No evidence of contamination was detected, and no excavation was done.

- Piles of construction debris, tires, and crushed empty drums covered much of the property prior to 2001. Tony Pallet, Inc. had removed 10,500 cubic yards of the surface debris from the property.

- Characterization of the surface soil was conducted by applying a grid over the site surface and sampling in the center of each box. Two rounds of sampling were conducted. Soils were

excavated where exceedances were found to a depth of 2 feet bgs. Post-excavation sample analysis indicated the contaminants were all excavated and disposed of.

  - Round 1 consisted of 14 surface samples analyzed for PAHs, pesticides, PCBs, and priority pollutant metals. Samples analyzed from one of the two locations required further delineation for total PCBs (54.1 ppm) and mercury (922 ppm), while the other location required delineation for only mercury (2,770 ppm).
  - Round 2 was conducted to delineate the horizontal and vertical extents of the PCB and mercury contamination.

- Approximately 15,000 cubic yards of RCA was imported to the site to be used as a site-wide cap. Eighteen grab samples were collected from the RCA and analyzed for PAHs, PCBs, and priority pollutant metals for characterization purposes. Several PAHs were detected at levels exceeding the residential soil cleanup criteria at one sample location, while benzo(a)pyrene exceeded the non-residential soil cleanup criteria. Malcolm Pirnie recommended that the RCA be used for the cap.
- Disposal quantities of contaminated soil, sediment, and debris are summarized below:
  - Nonhazardous-contaminated soil – 927.95 tons
  - PCB-contaminated soil/sediment – 713.29 tons
  - PCB- and RCRA-contaminated soil/sediment – 426.77 tons
  - Debris – 96.38 tons
- Remaining remedial actions, per the 1994 Record of Decision, are:
  - Groundwater monitoring
  - Applying a clay lining to Pierson's Creek
  - Filling in of Pierson's Creek
  - Capping the property

3.5.10 Groundwater Status Report, June 2009

3.5.10.1 Description

Initiating in 2005 following soil remediation and build-out at the property, groundwater monitoring activities were initiated in accordance with the approved 2002 RAWP Amendment. Onsite monitoring wells not included in the long-term monitoring program were abandoned in June and December of 2005. Damaged or destroyed monitoring wells were replaced, and conversion of stick-up monitoring wells to flush mount wells, based on the new site grade, were completed in December of 2005. Wells were sampled in May of 2006, and groundwater elevation measurement data were collected in December 2006 and October 2008.

Sampling was intended to be bi-monthly following the May 2006 sampling event; however, local dewatering associated with a sewer pump station construction project along Wilson Avenue, near Avenue L, forced a postponement of subsequent sampling events. The construction project was completed in 2007, and a third round of groundwater elevation measurements were collected on October 22, 2008.

An informal re-sampling of monitoring wells MW-1SR and MW-1IR was conducted on February 17, 2009 to address a discrepancy in analytical results obtained from the wells sampled in August 1999 and May 2006.

3.5.10.2 Summary

- VOC and arsenic concentrations in groundwater collected during the May 2006 sampling event are similar to, or have decreased from, previous sampling events, excluding results obtained from monitoring well MW-1I.
- Dissolved concentrations of 1,2-cis-DCE and vinyl chloride were significantly greater from the 2006 monitoring event (27,000 and 2,100 µg/L, respectively) in monitoring well MW-1I than observed earlier monitoring events (non-detect, 2 µg/L, respectively).
- VOC concentrations in the 2009 resampling of monitoring well MW-1IR (DCE at 1,800 µg/L, vinyl chloride at 27 µg/L) were significantly lower compared to the 2006 results but still elevated compared to the 1999 results.
- Morris Newark Wilson Associates, LLC intends to proceed with a bi-monthly groundwater monitoring program, for five more rounds, in accordance with the previously approved RAWP Amendment to determine whether a CEA will be required for the property.

3.5.11 Regulatory History

- In 1978, an ACO was issued to ASD, indicating that no chemical waste would be removed except in compliance with specific requirements set forth in the document.
- In 1980, a Consent Judgement was issued by NJDEP against New Albert Steel Drum, Pulaski Skyway Realty Company, and the Newark Redevelopment and Housing Authority to establish a remediation trust specific to the 338 Wilson Avenue property.
- In 1994, the City of Newark issued a ROD for the remediation of the 338 Wilson Avenue property.
- In 1996, the NJDEP issued an ACO requiring Prentiss, Inc. to demolish their previous pesticide production building and to arrange for the cleanup and removal of contamination around the building. Additionally, Prentiss was ordered to pay the NJDEP $160,000 toward the capping of the property following remediation.
- In 2000, NJDEP issued an ACO due to the purchase of the 338 Wilson Avenue property by Tony Pallet, Inc. from the Housing Authority of the City of Newark. The ACO states that Tony Pallet must contribute funds to the remediation trust and continue remediation of the property on a schedule.

- In 2009, The Morris Companies issued a deed notice due to concentrations of VOCs and PCBs above the residential direct contact soil cleanup criteria. The deed notice is intended as an institutional control, and the site-wide cap is an engineering control.
- In 2014, The Morris Companies applied for a new CEA for the property, citing concentrations of lead (810 µg/L), arsenic (97.2 µg/L), manganese (2,330 µg/L), iron (138,000 µg/L), and aluminum (20,500 µg/L) all exceed the groundwater quality standards (5, 3, 50, 300, and 200 µg/L, respectively).
- In 2014, the Morris Companies applied for a remedial action permit – soil approval.

3.6 80 Avenue K (Currently, Manischewitz Co.)

The 80 Avenue K property owned by Rokeach Food Corporation (RFC) is located at 80 Avenue K, City of Newark, Essex County, New Jersey. Historical information about the property is not included in any of the following documents since the remediation efforts were directed at the former UST locations for a 1,000-gallon leaded gasoline UST and a 10,000 gallon #4 heating oil UST, which were removed in January 1994. The tanks were registered with the NJDEP and removed under approved Closure Plan Application Approval, Tank Management Section (TMS) No. C-93-6333 and C-93-6334 in 1993. Remedial investigations and actions were conducted after removal of the two USTs and accompanying 165 feet of piping.

The property is located 10 feet amsl, and the topography of the property is relatively flat. Newark Bay is located approximately 1.25 miles east of the property. According to the Rutgers University Engineering Soil Survey of New Jersey for Essex County, the property is located within an area marked as "Mapped Land," which is a designation for areas of fill materials over tidal marsh that have been reclaimed for industrial development. The tidal marsh is underlain by highly organic silts, clayey silts, and clays that extend down to the Brunswick shale at depths over 200 feet. The groundwater table is at 4.0 to 4.5 feet bgs (Environmental Waste Management Associates, Inc. [EWMA] 1997).

3.6.1 Remedial Investigation Addendum Report and Remedial Investigation Work Plan, April 1995

3.6.1.1 Description

On behalf of property owner Rokeach Food Corporation, EWMA prepared a Remedial Investigation Addendum Report and RIWP pursuant to the requirements of a December 1994 NJDEP Directive regarding the removal of two USTs from the property located at 80 Avenue K, City of Newark, Essex County, New Jersey. The RI Addendum report discussed work completed by Handex Environmental Management, Inc. (Handex) in removing the USTs and conducting corresponding RIs. The RIWP portion of the report proposed additional remedial investigation activities to be conducted.

3.6.1.2 Summary

- In January 1994, Handex removed a 1,000-gallon leaded gasoline UST and a 10,000-gallon #4 heating oil UST along with 165 feet of piping.

- No corrosion holes, pitting, or cracks were observed on the UST surfaces. Visual inspection, PID measurements, soil/water agitation, and field sorption tests showed no evidence of contamination in the excavation.
- Six post-excavation soil samples collected from the leaded-gasoline UST excavation showed no evidence of VOCs, and lead was detected below the Technical Requirements for Site Remediation (TRSR) Soil Cleanup Criteria and Residential or Non-Residential Direct Contact Criteria.
- Six post-excavation soil samples collected from the #4 heating oil UST excavation contained no TPHs in excess of 100 ppm.
- Nineteen post-excavation soil samples were collected along the length of the piping for both USTs. Only one sample from the #4 heating oil UST piping contained benzo(a)anthracene above RDCSCC of 0.9 ppm at 2.50 ppm.
- The December 1994 NJDEP directive required RFC to remediate the soil surrounding the benzo(a)anthracene exceedance and to reevaluate the potential for impact to the groundwater.
- Handex conducted RI activities in 1994 by installing test pits and soil borings to address soil contamination (AOC-1) and by visual evaluation to address groundwater contamination (AOC-2).
- Laboratory analytical results of soil boring samples indicated that TPH levels from <25 ppm to a maximum of 37,000 ppm were present. Conditional analysis for two samples with the highest TPH levels confirmed no PAHs exceeded the NJDEP TRSR, RDCSCC and NRDCSCC for soil cleanup and IGW.
- Additional soil remedial investigation was recommended to delineate the extent of contamination north of the former piping run associated to the #4 heating oil UST.
- Remedial investigation for groundwater was recommended based on the findings of visual inspection during installation of two test pits at the property.
- According to the RIWP, these proposed remedial investigations would be accomplished by installing 10 soil borings and 3 wells for AOC-1 and 3 monitoring wells for AOC-2.

3.6.2 Remedial Action Report (Soil), May 1996

3.6.2.1 Description

EWMA prepared an RAR for the 80 Avenue K property for Rokeach Food Corporation in May 1996. The report included details of the remedial investigation and action activities proposed in the Remedial Investigation Addendum Report and RIWP document and an October 1995 RIWP approved by the NJDEP.

During the RI activities at the property, the area north and south of the former tank piping was determined to be contaminated with TPH. In addition to that, two soil hotspots containing TPH

and benzo(a)anthracene levels above established soil cleanup criteria were discovered. Further investigation and remediation of these areas was conducted by EWMA and discussed in this RAR.

3.6.2.2 Summary

- Previous RI activities conducted by Handex identified TPH-contaminated soil in the area of the former tank piping and two hotspots containing high TPH and benzo(a)anthracene concentrations.
- The Remedial Action Plan proposed an engineering control and a Declaration of Environmental Restriction (DER) for the TPH-contaminated area, which was acknowledged to be an acceptable remedial action by the NJDEP.
- For the two hotspots, the soil was remediated to acceptable levels below soil cleanup criteria by excavation of the contaminated soil and disposing it at an approved offsite facility. No further action was recommended.
- Since both hotspots were located within the TPH-contaminated soil area, they were included in the DER proposal.

3.6.3 Remedial Investigation Report / Remedial Investigation Work Plan (For Ground Water), November 1997

3.6.3.1 Description

This RIR and RAWP concerning the groundwater at the 80 Avenue K property was submitted to NJDEP in November 1997 by EWMA on behalf of the Rokeach Food Corporation. It discusses the investigation of the groundwater at the former heating oil UST area and the two soil hotspots identified in previous RI work. It also includes the proposed remedial action for the affected groundwater underlying one of the hotspots where benzene contamination was detected above the NJDEP GWQS.

In 1996, remedial investigation of soil was completed at the property and a DER was established in and around the former area of the heating oil UST, which previously exhibited TPH contamination and two hotpots of TPH and benzo(a)anthracene contamination. Hotspot remediation was achieved by soil removal and proper disposal. Since contamination was detected at the soil and water table interface, the NJDEP required investigation of the groundwater. This report includes details of HydroPunch investigation, monitoring well installation, slug test, tidal influence investigation, and groundwater sampling.

3.6.3.2 Summary

- According to previous studies, the groundwater under one of the contaminated soil hotspots discussed in the soils RAR was detected at a level slightly above NJDEP GWQS.
- A HydroPunch investigation was conducted to evaluate groundwater and to identify the optimum locations for the installation of monitoring wells. Field screening using a portable PID indicated no readings at any of the five boreholes.
- Three flush-mounted monitoring wells were installed at the former location of the tank system and the two hotspots.

- A slug test was conducted, and an average hydraulic conductivity (K) of 3.15155 feet/day was obtained.
- The results of a tidal influence study show that there will be no tidal influence to the groundwater at the property. Groundwater recharge is expected to be high due to exposed soil at the former tank area.
- Groundwater samples were collected from monitoring wells on March 11 and May 12, 1997.
- At the former location of heating oil #4 UST, the March monitoring well sample had no detectable volatile organics or benzenes, and the May sample contained no volatile organics but two targeted benzene compounds were detected.
- At the former location of the B-42 (see Figure B-52 in Appendix B) hotspot, both the March and May monitoring well samples contained benzene above GWQS of 1 ppb at 14 ppb and 13 ppb, respectively. However, this benzene was not expected to migrate off site at levels exceeding GWQS, and it was predicted to degrade to GWQS of 1 ppb within 1.15 years.
- At the former location of the P-4 (see Figure B-52 in Appendix B) hotspot, both the March and May sample exhibited no targeted volatile organics and some targeted benzenes but at levels below GWQS.
- No further action was proposed for the groundwater AOC at the property, with a CEA required at the B-42 hotspot.

3.6.4 Regulatory History

- In December 1985, the NJDEP provided its decision that the sale of the 80 Avenue K property to Rokeach Foods was not subject to the applicability of the Environmental Cleanup Responsibility Act.
- NJDEP approved closure of the two USTs and the accompanying system at the property in 1993.
- The two USTs were removed in February 1994, and a closure report was to be sent to NJDEP.
- On December 29, 2000, the NJDEP provided their decision that the property was not subject to the applicability of the ISRA.
- In March 2001, a revised deed notice was sent to the NJDEP. The letter to the NJDEP indicated that engineering controls were in place and that the deed notice had been revised to incorporate requirements of NJDEP's updated model document.

3.7 7 Avenue L (Global Metals, Welch, Holme & Clark)

The 7 Avenue L property, owned by Welch, Holme & Clark Company, Inc. since December 1983, is located at 7 Avenue, Newark, Essex County, New Jersey.

3.7.1 Application Concerning ECRA Applicability and NJDEP Response, February/March 1990

3.7.1.1 Description

In February 1990, on behalf of Welch, Holme & Clark Company, Inc., their attorney Hugh B. McCluskey requested the NJDEP for an applicability determination concerning ECRA. This was done to ensure ECRA applicability for the new owners, Newark Redevelopment and Housing Authority. In a response sent by NJDEP, it was confirmed that the sale of the property based on the evidence provided was not subject to the provisions of ECRA.

3.7.1.2 Summary

- The current owners, Welch, Holme & Clark Company, requested the NJDEP to determine ECRA applicability of the property in February 1990.
- In March 1990, NJDEP determined that the property was not subject to the act. This decision was made in light of the absence of an industrial establishment as defined within the Standard Industrial Classification numbers covered by the act.
- Welch, Holme & Clark operations involved bulk storage and transfer of edible oils and fats. The edible oils and fats were transferred to drums for wholesale, and the building was used only as a warehouse.
- The building heating system required a 3,000-gallon aboveground oil tank.

3.7.2 Regulatory History

Not applicable – No other documents found.

3.7.3 Globe Metals, Inc., 7 Avenue L, Newark, NJ 07105

Globe Metals, a scrap metal processing facility, was located to the east of the Troy Chemical property, to the south of Welch, Holme, & Clark. Globe Metals was listed in the Community-Right-To-Know (CRTK) and NJDEP databases. It has the same address, 7 Avenue L, Newark, New Jersey, as the Welch, Holme & Clark facility described in the previous section. The facility received numerous violations for not submitting its CRTK surveys and not following the requirements of its NJPDES permit. To date, no remedial investigations or remedial actions have been undertaken at the property (September 2015). No information was found indicating that any environmental investigations or remedial actions occurred at the property.

During a site visit on January 27, 2016 by EPA and CDM Smith, the Globe Metals property appeared to be inactive. A representative of Troy Chemical indicated that the property was inactive. A drainage swale along the west side of the Globe Metals property (east side of Troy Chemical) overflowed onto the Globe Metals property. This drainage feature eventually discharges to Pierson's Creek just south of the Troy Chemical property.

A summary of regulatory history of the property is provided below.

Globe metals has incurred numerous NJPDES permit violations between 2002 and 2014. The most common violations include:

- Failure to conduct periodic inspections and maintain records of the inspections
- Failure to collect and analyze storm water discharge samples, primarily due to lack of a representative sample collection point(s)
- Failure to implement best management practices (BMPs) to reduce or eliminate exposure of pollution sources to storm water
- Failure to prepare and implement a storm water pollution prevention plan (SPPP)
- Failure to prepare, implement, and include in the SPPP a soil erosion and sediment control plan for soil stabilization
- Failure to complete and submit the annual CRTK
- Failure to comply with the NJPDES permit

Details of violations found on the NJDEP website for the period 2002 through 2005 are summarized below.

- Violations found in the May 2002 inspection included failure to prepare and implement a soil erosion and sediment control plan for soil stabilization, with the SPPP. Failure to BMPs to minimize the exposure of source materials to storm water. Failure to collect representative samples (no samples collected) of the storm water discharged from sources regulated under their NJPDES permit, and failure to submit annual re-certifications.
- Violations found in May 2003 included failure to monitor as required by the permit, failure to comply with BMPs, failure to store oily materials properly, failure to include a report identifying actions taken to rectify noncompliance incidents, and failure to eliminate the exposure of pollution source materials to storm water.
- Violations found in March 2004 included failure to eliminate the exposure of pollution source materials to storm water, failure to store containers containing source materials in a manner which eliminates exposure to rainfall or storm water, failure to analyze storm water samples due to lack of a representative sample collection location, and failure to perform periodic inspections and maintain inspection records at the property.
- Violations found in March 2005 include failure to remove source materials (such as machine turnings) from exposure to storm water, failure to install an oil/water separator, failure to conduct required sampling since 2001, failure to submit waste characterization reports as required by their permit, and failure to comply with BMPs and/or the implementation schedule thereof. In 2005, the permit sampling requirements were suspended; however, the results from previous annual sampling were not submitted per the permit.

3.8 EPA Hazard Ranking System Documentation Record, Pierson's Creek, December 2013

3.8.1 Description

EPA's HRS is one of the mechanisms that EPA uses to evaluate sites for potential inclusion on the National Priorities List (NPL). The HRS evaluates three migration pathways (soil, groundwater, and air) and one exposure pathway (soil). For each pathway, three major factor categories are evaluated: the likelihood of a release of a hazardous substance, pollutant, or contaminant; waste characteristics (e.g., waste quantity, containment, toxicity); and targets (potential for exposure of human and ecological receptors). The HRS used data and observations obtained from an April 1980 NJDEP inspection and an October 2012 EPA investigation.

3.8.2 Findings

Only one migration pathway, surface water, was scored. The groundwater migration, soil exposure, and air migration pathways of the HRS were not scored.

One primary waste source, identified as the HRS source type "other," located within the Troy Chemical property area, was evaluated in the HRS. Source 1, Historical Wastewater Discharge from the Troy Chemical property, directly discharges to Pierson's Creek in the concrete channel (formerly Pierson's Creek). The location of Pierson's Creek is shown in Figures 1 and 2 of the HRS Document (Figures B-53 and B-54 in Appendix B). Figure 4 of the HRS document, provided in Appendix B (Figure B-55), illustrates the 15-mile surface water migration pathway.

The major findings of the HRS for the Pierson's Creek Site are summarized below.

Likelihood of Release – The HRS documented that mercury was being released from the source identified and impacting the Pierson's Creek sediments. Releases were documented by direct observation and chemical analysis of mercury-contaminated sediment samples collected from Pierson's Creek. Contaminant concentrations in sediment were evaluated against contaminant concentrations in background samples.

Waste Characteristics – The HRS documented the quantity and the toxicity, persistence, and bioaccumulation factors for the waste source that was evaluated; mercury was the primary waste constituent.

The waste characteristics evaluation cited TCLP data for mercury to support documentation of waste characteristics factors.

Targets – A number of potential targets or receptors, both human and ecological, were identified and evaluated in the HRS surface water pathway. These included the potential for impacts on the human food chain (e.g., via consumption of fish) and sensitive environments such as wetlands and endangered species. The following major targets were evaluated in the surface water pathway:

- Human Food Chain – New York-New Jersey (NY-NJ) Harbor Estuary fisheries (potential for exposure via consumption of fish from NY-NJ Harbor Estuary, including Newark Bay,

Arthur Kill, Kill Van Kull, Upper New York Bay, The Narrows, and the tidal rivers that flow into the harbor)

- Sensitive Environments – NY-NJ Harbor estuary, which is identified as a sensitive area under the National Estuary Program, and Newark Bay, a state-designated area for protection of aquatic life

Evaluation of the surface water migration pathway resulted in the maximum score for the pathway (100) and an overall site score of 50, which is above the minimum score required to consider the area for NPL inclusion. The Pierson's Creek Site was listed on the NPL on September 22, 2014.

3.9 City of Newark Document Summary

3.9.1 Dames & Moore, Draft Supplemental Services Hydrologic and Hydraulic Study of Pierson's Creek, February 1998

3.9.1.1 Description

The above-referenced report presents the findings of an additional hydrologic and hydraulic evaluation undertaken by Dames & Moore pursuant to the Draft Hydrologic and Hydraulic Study produced in August 1997. This study was performed to support flood mitigation efforts in the vicinity of Pierson's Creek. The 1997 Hydrologic and Hydraulic Study documented that storm water discharges to Pierson's Creek through a 3.5- by 9-foot box culvert located at Wilson Avenue; however, the culvert had collapsed, causing severe flooding during storm events. Water in the creek was documented to flow south from Wilson Avenue to a pair of 60-inch diameter reinforced concrete pipes (RCPs) located at New Jersey Turnpike (NJTP) interchange 14. These RCPs reportedly convey storm water south to a pair of tide gates at the Port Newark Channel. During the supplemental evaluation, Dames & Moore performed the following tasks to support development rehabilitation alternatives to mitigate flooding:

- Performed a reconnaissance of the southern portion of Pierson's Creek (from NJTP to the Port Newark Channel) to identify potential structures or obstructions potentially impacting analyses presented in the 1997 study
- Obtained additional topographic information related to the southern portion of Pierson's Creek for estimating the overall gradient of the creek south of the turnpike
- Estimated the capacity of the existing storm sewer pipe located immediately north of the collapsed Wilson Avenue box culvert and the twin 60-inch diameter concrete pipes that convey storm water from the creek underneath the turnpike, Route-I-78, and downstream to the Port Newark Channel
- Evaluated flows generated by the creek and the ability of the creek to effectively convey high frequency storm events (storms with rainfall intensities less than a 2-year storm event)
- Evaluated alternatives for the migration of potential flooding in the vicinity of Wilson Avenue during high frequency storm events

3.9.1.2 Findings

- No structures or obstructions were identified during the reconnaissance. Invert elevation data for the 60-inch pipes indicate that the Port of Newark tide gates are set at 3.6 feet below mean sea level.
- Based on the drainage basin areas established in the 1997 Hydrologic and Hydraulic Study and an average annual rainfall depth of 2.7 inches for the Newark area, hydrographs were computed for the 1-year storm frequency. Estimated peak storm discharges for 1-, 2-, 10-, 25- and 100-year storm events as well as culvert capacities along Pierson's Creek were developed.
- The collapsed box culvert located at the northern end of Pierson's Creek extends west along Wilson Avenue and then north at Avenue L. The box culvert receives discharge from another box culvert beneath Avenue L. The capacity of the culvert was estimated to be 260 cubic feet per second (cfs) under inlet control conditions (equivalent to a 2-year storm capacity).
- Capacity of the twin 60-inch concrete pipes was estimated to be between 80 and 175 cfs based on various headwater and inlet invert elevation assumptions.
- The alternatives developed initially focused on the 100-year storm event for design capacity; however, hydrologic and hydraulic modeling of the creek indicated that the magnitude of the 100-year storm posed a problem given a lack of sufficient hydraulic gradient in the area and that approximately 5 feet of sediment from Pierson's Creek was present at the outlet of the Wilson Avenue culvert. As a result, design alternatives were refocused to target conveyance capacities for a 10-year storm event.
- Dames & Moore recommended that flooding relief be achieved by replacing the Wilson Avenue Culvert with a concrete channel extending from Wilson Avenue to the Troy Chemical property. This recommendation, however, was contingent on the remediation, or costs associated with the disposal, of contaminated sediments within Pierson's Creek.

3.9.2 City of Newark, Environmental Assessment for the Rehabilitation of Pierson's Creek, Undated

This report presents a summary of the Dames & Moore 1997 Draft Hydrologic and Hydraulic Study as well as the 1998 Supplemental Study described above. Based on the data presented, the City of Newark elected to pursue the construction of an Avenue L culvert extension rather than replacing the Wilson Avenue Culvert with a concrete channel extending from Wilson Avenue to the Troy Chemical property. The remainder of the report discusses potential environmental impacts related to this recommendation although it is currently known that this project was never completed.

3.9.3 City of Newark Department of Engineering, Draft Wilson Avenue Flooding Abatement Plan, May 1998

According to the City of Newark Department of Engineering, a major drainage connection to Pierson's Creek had been cut off due to contamination on the Albert Steel Drum and Troy

Chemical properties. At the time, NJDEP was restricting the city's request to reconnect the system until Pierson's Creek had been remediated. In response, the city proposed to tie in this section of the Wilson Avenue drainage into a new storm sewer constructed along Avenue L. Conceptual design indicated that the new sewer was to bypass Troy Chemical and discharge south of this property. The remaining sections of this report discuss sewer design rationale and status, construction costs, permitting, and flooding patterns in other areas not associated with Pierson's Creek.

3.9.4 City of Newark, Pierson's Creek Cleaning Meeting Minutes, June 2001

Meeting documentation among undisclosed members of the City of Newark and potential outside parties provides additional information pertaining to the collapsed pipe along Pierson's Creek, causing flooding in the vicinity of Wilson Avenue. During this meeting, it was discussed that the State of New Jersey had included work for the cleaning of Pierson's Creek as part of the Route 21 Viaduct Replacement Project. According to field survey plans drafted in 1994 and 1997, a series of underground pipes extend underneath the Conrail Tracks to the south and an access road to the Interport property. Sections of open channels were observed between piping. The pipes and open sections of channel were to be cleaned prior to the Route 21 viaduct replacement; however, this effort could not be completed since a new pipe that had been recently placed in an open channel between the Conrail tracks and nearby access road had collapsed, causing flooding upstream. This collapsed section of pipe was claimed to have been removed although it was indicated that the state asserted a portion of the pipe was still collapsed. The city had requested that the state remove the additional portions of collapsed pipe although it is not known if this task has been completed.

3.9.5 Scafar Contracting, Inc, Letter RE Wilson Avenue Drainage Improvements (Pierson's Creek), July 2006

This letter was sent by Scafar Contracting, on behalf of the City of Newark, to Conrail requesting access for the repair of malfunctioning tide gates on Conrail's property. The tide gates are located on the Conrail right of way, off Terminal Street at the Port of Newark. Scafar Contracting claimed that the tide gates could only be accessed through the Conrail property. A map containing hand drawn indications of the tide gate locations are included with this letter.

3.9.6 NJDEP, Newark Department of Water and Sewer Utilities Notice of Violation, July 2007

This notice of violation documented the City of Newark's failure to comply with condition #15 and #18 of Freshwater Wetland Permit #0714-04-0004.1. The former prohibits grading or other construction within the banks of any onsite watercourse or pond between April 15 and July 31 of each year. Workers from the City of Newark were observed working on the replacement of the collapsed box culvert at Wilson Avenue on June 14, 2007.

The latter condition requires excavated soils to be sampled and classified during construction to determine proper handling and disposal methods as well as contacting NJDEP's Site Remediation Program for oversight prior to construction. The City of Newark did not initiate any such request.

3.9.7 Irvin L. Solondz, Letter RE Pimental Realty, Inc. vs. City of Newark, July 2007

At this time, Irvin L. Solondz, Counsellor at Law, represented Pimental Realty, Inc. and Continental Trading & Hardware, located at 400 Delancy Street. The letter states the City of Newark's contractor "dumped" and "piled" contaminated soil adjacent to the creek on the 400 Delancy Street property in an effort to widen Pierson's Creek without obtaining approval from the property owners. According to Mr. Solondz, the relocated soil covered approximately 1 acre of property, and the absence of removal was translating to a loss of rental income. Mr. Solondz demanded that the city pay for losses in rent and continue to do so until the soil was removed.

3.9.8 Weston Solutions, Proposal for Environmental Consulting Services, Disposal of Dredge Material, Pierson's Creek, November 2007

This proposal, submitted to the City of Newark, was developed to provide a scope for soil pile removal on the 400 Delancy Street property. According to the scope, soil samples had been collected from the soil piles on September 17, 2007 to determine waste characteristics for disposal. The results indicated the presence of PCBs and TCLP metals, including lead. As a result, the sampled material was classified as D008 hazardous waste (characteristic for lead toxicity). Weston proposed an additional eight waste classification samples for TCLP VOCs, SVOCs, pesticides, metals, PCBs, and RCRA characteristic and the subsequent removal and offsite disposal of up to 2,500 tons of dredged soil material. A brief letter report, summarizing this removal action, was included in this scope although such a report was not available for review.

3.10 Additional Information

3.10.1 Aerial Photography 1933 to 2008

Aerial photos were reviewed to better understand the historic orientation of Pierson's Creek and the relationship of key creek features to adjacent properties. The aerial photos reviewed were included in the EDR Aerial Photo Decade Package included in the HRS Report for the Troy Chemical Site (reference to HRS) and from more recent aerial photos found on Google Earth Pro. Aerial photos referenced are included in Appendix B.

1933 Aerial

The general creek orientation from the Troy Chemical property to the Conrail Oak Island Rail Yard is similar to the current orientation. The following additional notes were made on the various site areas:

- Northern portion of the former ASD property is developed, and it is unclear where the creek channel begins.
- Troy Chemical property appears to have begun development on the eastern side of the creek.
- Former USF Redstar property is vacant, and adjacent properties are vacant. Some clearing is apparent to the west of Pierson's Creek.

- Former Engelhard property is vacant, and adjacent properties are vacant. Some clearing is apparent to the west of Pierson's Creek. The Engelhard eastern drainage ditch is also present, similar to its current state.
- Conrail Oak Island Rail Yard is present in some form, creek appears to traverse the rail yard and continue in an open channel to the south through what appears to be vacant land (now the airport parking areas).

1943 and 1946 Aerials

The general creek orientation from the Troy Chemical property to the Conrail Oak Island Rail Yard is similar to the current orientation. The following additional notes were made on the various site areas:

- The former ASD property and the eastern portion of the Troy Chemical property appear to be one facility. The area to the west of Pierson's Creek appears to be undeveloped. The creek channel appears to begin at the current Troy Chemical northern property boundary. The Troy eastern drainage ditch is readily apparent,
- The former USF Redstar property and the former Engelhard property remain undeveloped.
- The Conrail Oak Island Rail Yard and airport parking areas remain unchanged.

1954 Aerial

The general creek orientation from the Troy Chemical property to the Conrail Oak Island Rail Yard is similar to the current orientation. The following additional notes were made on the various site areas:

- The former ASD property and Troy Chemical property remain similar.
- Development of a large facility has occurred at the former USF Redstar property; what appears to be a rail spur now crosses over the creek.
- Development has started at the former Engelhard property, including several buildings on the western side of the property. The photo shows what appear to be several low areas on the eastern half of the property inundated with water.
- Conrail Oak Island Rail Yard and airport parking areas remain unchanged; however, I-95 now traverses the area.

1966 Aerial

The general creek orientation from the Troy Chemical property to the Oak Island Rail Yard is similar to the current orientation. The following additional notes were made on the various site areas:

- The former ASD property and Troy Chemical property are more developed; however, there is still limited development on the west side of the creek. The areas west of the former ASD property are now either used for storage or being used as a junk/salvage yard. Two drainage swales cross what is now the western portion of the Troy Chemical property and

join Pierson's Creek. One appears to possibly receive runoff from the potential junk/salvage yard to the north.

- The former USF Redstar property remains similar.
- Development has continued at the former Engelhard property; seven large buildings are now on the western portion of the property, including one in the northeast corner immediately adjacent to the creek. The only portion of the eastern side of the creek in use is along Delancy Street, which appears to be used for parking.
- Conrail Oak Island Railyard and Airport parking areas remain unchanged.

1970 Aerial

The general creek orientation from the Troy Chemical property to the Conrail Oak Island Rail Yard is similar to the current orientation. The following additional notes were made on the various site areas:

- The former ASD property and Troy Chemical property remain similar. There are now a few buildings and storage areas present west of Pierson's Creek and several bridges crossing the creek on the property. Avenue L has been built, and the areas that appeared to be used as a junk/salvage yard have been cleared. The drainage swales to the west no longer exist as the land west of Avenue L has been developed.
- The former USF Redstar property remains similar; however, a parking lot has been constructed up to the western edge of Pierson's Creek. This land was previously undeveloped.
- Development has continued on the western portion of the former Engelhard property, and several additional buildings are now present in the northeast corner immediately adjacent to the creek. What is now referred to as the Conrail access road now traverses part of the eastern portion of the property, with a small building adjacent to it.

1991 Aerial

The general creek orientation now begins within the former ASD property, following a similar path from there through the Troy Chemical property to the Conrail Oak Island Rail Yard. The following additional notes were made on the various site areas:

- The former ASD property appears to have undergone further clearing, with only the northern and eastern portion of the property in use.
- The Troy Chemical property is now fully developed, with the facility fully encompassing the area from Avenue L to the Troy eastern drainage swale. The Globe Metals and Welch, Holme & Clarke properties also appear present.
- The former USF Redstar property remains similar; however, the area to the east of Pierson's Creek has now been cleared and appears to be used for trailer storage. This land was previously undeveloped.

- Development has continued on the western portion of the former Engelhard property, with the facility fully encompassing the property west of Pierson's Creek. The eastern portion of the property contains what may be a large tank or pit to the south
- Conrail Oak Island Rail Yard has become further developed, expanding into the land adjacent to the Former Engelhard property. The airport parking areas have been developed; however, the creek appears to still flow through open channels in this area.

1995 Aerial

The general creek orientation still begins within the former ASD property, following a similar path from there through the Troy Chemical property to the Conrail Oak Island Rail Yard. The following additional notes were made on the various site areas:

- The former ASD property remains similar.
- The Troy Chemical property and the former USF Red Star and Engelhard properties all remain similar.
- Oak Island Rail Yard appears similar to its current make-up. The airport parking areas have been developed further, and portions of the creek now appear to flow through culverts under the parking areas. I-78 is now also present, and the creek appears to enter culverts north of I-78, similar to its current orientation.

2006 Aerial

The general creek orientation now begins at the northern edge of the Troy Chemical property, following a similar path through the Troy Chemical property to the Conrail Oak Island Rail Yard. The following additional notes were made on the various site areas:

- The former ASD property has now been redeveloped into the current FedEx® Facility. The creek in this area is no longer present above grade.
- The Troy Chemical property and the former Engelhard property remain similar.
- The former USF Redstar property remains similar; however, the area to the east of Pierson's Creek no longer appears to be in use.
- All buildings at the former Engelhard property have been removed, with only the concrete foundations present. The area east of Pierson's Creek is fully vegetated.
- Conrail Oak Island Rail Yard appears similar to its current make-up. The airport parking areas have been developed further, with most of the creek flowing through culverts under the parking areas.

2008 Aerial

The general creek orientation begins at the northern edge of the Troy Chemical property, following a similar path through the Troy Chemical property to the Conrail Oak Island Railyard. The land use appears similar to what was observed during CDM Smith's 2016 reconnaissance. The following additional notes were made on the various site areas:

- The former ASD property and the Troy Chemical property remain similar.
- The former USF Redstar property remains similar; however, the area to the east of Pierson's Creek is again in use, and a rail spur now appears to cross over the creek immediately adjacent to the southern boundary of the Troy Chemical property.
- The former Engelhard property remains similar.

Section 4

Data Gap Evaluation and Recommendations

This section identifies gaps in the existing data for Pierson's Creek and provides recommendations and technical approaches for data collection activities to fill the data gaps. A preliminary conceptual site model (CSM) was developed based on the existing information that was reviewed and summarized in Section 3. The CSM provides a framework for evaluation of the existing data and development of recommendations. The CSM will be updated and refined as more information becomes available.

Details of the technical approach such as specific sample numbers, depths, and locations; chemical analytical parameters and physical measurements; scheduling and sequencing of field activities; data processing and analysis; and reporting will be developed fully in the site-specific work plan.

4.1 Preliminary Conceptual Site Model

4.1.1 Contaminant Types and Sources

Contamination at Pierson's Creek has been characterized during several site inspections, RIs, and RAs over the past several decades. Contaminants identified at the site include VOCs, CVOCs, SVOCs, PAHs, petroleum hydrocarbons, pesticides, PCBs, and a range of metals, including arsenic, cobalt, copper, lead, mercury, and zinc in soil, sediment surface water, and groundwater.

Since the properties surrounding Pierson's Creek were historically involved in chemical manufacturing and storage, the sources of contamination in most cases are discharges, spills, and releases from these industrial processes. Several underground fuel storage tanks also contribute to TPH and VOC contamination. In addition, elevated arsenic, lead, and benzo(a)pyrene concentrations can be attributed to historic fill material present across several of the nearby properties.

Historical wastewater from Troy Chemical discharges directly to Pierson's Creek has resulted in contamination, in particular mercury contamination, in the Pierson's Creek sediments. Due to its toxicity, persistence, and bioaccumulation factors, mercury is the primary waste constituent.

4.1.2 Migration Pathways and Transport Processes

Elevated concentrations of chemicals have been detected in the soil and groundwater in properties surrounding Pierson's Creek. Remediation activities have occurred on some of the properties, and some properties are entirely covered with concrete or asphalt. However, in some areas adjacent to the creek, runoff from the soil can flow into Pierson's Creek. Contaminants such as mercury, PCBs, and PAHs have high partition coefficients and bind to soil and sediment particles. Major transport pathways for these contaminants are through erosion of contaminated surface soil and transport of sediment, particularly during storm events.

Based on a review of existing data, groundwater levels in the vicinity of Pierson's Creek are above the base of the creek, and therefore, the potential exists for contaminants in groundwater to discharge to the creek.

Historical information also indicates that Pierson's Creek frequently floods, providing a potential pathway for contaminants in surface water and sediment in the creek to be deposited in areas along and surrounding the creek banks (in floodplains and wetlands adjacent to the creek) and in drainage pathways connected to the creek. These drainage pathways also capture runoff from industrial properties and discharge it to Pierson's Creek, providing a potential pathway for contaminants to reach the creek.

Upon entering the water column, dissolved metals can sorb to sediments via multiple sorption pathways, including the following:

- Sorption to metal oxides (particularly iron and manganese oxides) on the suspended sediments
- Sorption to sediment organic matter
- Ionic exchange with other cations at negatively charged sites on the sediment (such as clay particles)
- Incorporation into the crystalline structure of minerals

The distribution of each metal in sediments is controlled by these sorption pathways.

In sediments, mercury can be transformed into methyl mercury by the action of sulfate reducing bacteria. Methyl mercury can bioconcentrate in organisms and biomagnify in the food chain, resulting in adverse impacts on ecological resources and on humans, primarily from the consumption of affected fish and shellfish.

The fate and transport of organic and metal contaminants is largely governed by the properties of the organic compounds, including their water solubility, volatility, partition coefficients, and biodegradability. Contaminants detected in sediment and soil samples at the site primarily consist of mercury, PAHs, pesticides, and PCBs, which tend to have low aqueous solubility, high partition coefficients, low volatility, and low biodegradability. Due to these properties, they tend to sorb to the organic carbon fraction of sediment and soil and persist in the environment. Physical transport of these contaminated sediments and soils is a key process affecting the distribution of organic and metal compounds in the environment.

The transport of contaminated suspended sediments will have an impact on transport and deposition of contaminants in Pierson's Creek and Port Newark Channel, which receives discharge from Pierson's Creek.

4.1.3 Potential Receptors and Exposure Pathways

There are a range of potential receptors, both human and ecological, that potentially can be exposed to contaminants present in various environmental media at the site. Detailed, site-specific conceptual models will be developed as part of the human health and ecological risk

assessments, and only a brief summary of potential receptors and exposure pathways is provided herein.

Major potential exposure pathways for human receptors include the following:

- Direct exposure (incidental ingestion, dermal contact, and inhalation of dust and vapor) to contaminated soil, sediment, and surface water
- Exposure through consumption of contaminated fish and shellfish (primarily in Newark Bay)

Major potential exposure pathways for ecological receptors are as follows:

- Direct exposure of organisms to contaminated water, sediment, and soil
- Ingestion of contaminated prey/plants
- Direct uptake of contaminants in soil, sediment, and water by plants

4.1.4 Sediment Characteristics and Transport

Going forward, data will be needed to characterize the surface water flow and sediment transport. Information is required to understand the physical and chemical characteristics of sediments in the creek and the flow characteristics of the creek during wet and dry weather in order to understand sediment transport within the creek. For a future evaluation of remedial alternatives at the site, sediment characteristics, such as sediment grain size, moisture content, and total organic carbon, should be included in the suite of sediment analyses to be conducted.

4.2 Site-Wide Considerations

4.2.1 Surface Water and Groundwater Analyses

The following analyses for surface water and groundwater are recommended to identify the nature and extent of contamination at the site as well as provide information for the CSM, risk assessments, and FS:

- Metals (total and dissolved)
- Mercury
- Methyl mercury
- VOCs, SVOCs, pesticides, PCBs (as Aroclors)
- Water quality parameters, such as total suspended solids, total dissolved solids, TOC, dissolved organic carbon pH, sulfate, sulfide, nitrate, nitrite, and total Kjeldahl nitrogen

In addition to chemical analyses, all surface water and groundwater samples would be analyzed to determine physicochemical properties, including DO, oxidation/reduction potential, pH, temperature, salinity, and turbidity.

Not all analyses will be performed at all sampling locations. The specific analyses for each sample type will be described in the work plan.

4.2.2 Sediment and Soil Analyses

The following analyses for the sediment and soil samples are recommended to identify the nature and extent of contamination at the site as well as provide information for the CSM, risk assessments, and FS:

- Total metals
- Mercury and mercury speciation
- Methyl mercury
- VOCs, SVOCs, pesticides, PCBs (as Aroclors)
- Dioxins and furans (at selected sediment locations)
- TOC, pH, grain size distribution
- Geotechnical parameters in selected areas to support the FS
- RCRA characteristics, including TCLP, ignitability, and reactivity

Not all analyses will be performed at all sampling locations. The specific analyses for each sample type will be described in detail in the work plan. Soil and sediment analyses will be detailed in the work plan and QAPP.

4.2.3 Site Reconnaissance

A number of site reconnaissance activities will be needed to collect information needed to support the field activities. These activities are anticipated to include the following major items:

- Field reconnaissance of Pierson's Creek, associated drainage ditches, and point source discharges to assess logistical constraints for access and determine exact sampling locations.
- Wet- and dry-weather reconnaissance of Pierson's Creek, associated drainage ditches, and point source discharge locations. The wet-weather reconnaissance will determine whether pipes and drainage swales actively discharge to the creek during wet-weather.
- Identification of property owners to support site access and identify an appropriate area for staging a trailer, equipment, and supplies needed to support the field investigation.

4.2.4 Cultural Resources Survey

A cultural resources survey will need to be performed in accordance with the National Historic Preservation Act to determine the presence or absence of cultural resources that may be impacted by the implementation of the RI and RA.

4.2.5 Topographic and Bathymetric Surveys

A detailed topographic survey has not been prepared for the site and the surrounding area. Some existing topographic information is available and will be used to the extent possible. However, a detailed topographic survey is recommended to provide basic topographic information to support the RI and FS. The topographic map will be incorporated into the geographic information system and will serve as a site base map. The map will be prepared at a topographic resolution sufficient to support the FS and will be useful for subsequent remedial design and remedial action activities. In addition to the topographic survey, a bathymetric survey of the entire creek is also needed. Given the shallow nature of the creek, it is anticipated that the bathymetric survey will consist of manual elevation measurements taken at intervals along the aboveground sections of the creek. The bathymetry will be performed in conjunction with the topography survey.

For the Port Newark Channel, it is assumed that existing bathymetric information will be obtained from navigation charts available from the National Oceanic and Atmospheric Administration.

4.3 Eastern Troy Drainage Ditch and Pierson's Creek up to the Conrail Rail Yard

This is the northernmost section of Pierson's Creek, which includes the drainage ditch that originates just south of the former Albert Steel Drum property and borders the eastern property line of the Troy Chemical property (Figure 4-1). This drainage feature discharges to Pierson's Creek just south of the Troy Chemical property. A storm sewer that collects runoff along Avenue L, also discharges to Pierson's Creek immediately south of the Troy Chemical property. From there, the current Pierson's Creek flows south in an open channel along the former USF Red Star Property and former Engelhard property to the Conrail Oak Island Rail Yard. This section of the Creek also receives water from a drainage ditches in the northern portion of the former USF Red Star property and two other drainage ditches just south of the former Engelhard property boundary. Both the northern and southern ends of Pierson's Creek on the Troy Chemical property have been sealed and no longer contribute flow to Pierson's Creek. As discussed in Section 1.3.1, for the purpose of the RI/FS investigation only, the portion of Pierson's Creek south of the Troy Chemical property and the drainage ditch bordering the eastern property line of Troy Chemical will be investigated.

4.3.1 Sediment Data Gaps and Recommendations

Surface sediment samples were collected at Pierson's Creek within the Troy Chemical property and upstream and downstream of the property in 1977, 1989, 1998, 2007/2008, 2010, and 2015. The most comprehensive of these sampling events was conducted between 2007 and 2008 when 80 sediment samples were collected from along Pierson's Creek and the unnamed drainage ditch to the east. A total of 24 of the 80 sediment samples were collected in the creek from three sampling transects immediately south of the property. Concentrations of CVOCs, BTEX, SVOCs, PAHs, PCBs, arsenic, cadmium, lead, copper, nickel, zinc, and mercury were detected in general exceedance of NJDEP SSGs.

No sediment sampling is known to have been conducted in the creek adjacent to the former USF Red Star property. However, sediment sampling was conducted on the 429 Delancy Street

property (former Engelhard property) between 1987 and 1995. The portion of Pierson's Creek that traversed the 429 Delancy Street property had elevated concentrations of silver, nickel, cadmium, mercury, and TPH. EPA collected surface sediment samples in aboveground portions of Pierson's Creek and associated drainage ditches in support of the HRS. However, no subsurface sediment samples were collected. As indicated in Section 2, the HRS surface sediment data will be used in the RI/FS.

Both surface and subsurface sediment cores are recommended to delineate the vertical and horizontal extent of contamination in the sediments of Pierson's Creek and the associated drainage ditches. It is also recommended that sediment cores be collected in the three drainage ditches that flow into Pierson's Creek within this section.

Within this section of the Creek, south of Troy Chemical and north of Conrail Oak Island Rail Yard, sediment cores will be collected along transects spaced approximately every 100 linear feet. Additional cores will also be collected near culverts and other deposition areas and every 200 linear feet within tributaries. The goal will be to collect sediment from the sediment surface to the native soil contact and at least one sample at the surface of the native material (assuming it can be identified). If the native material contact cannot be identified, cores will be collected to a depth of 5 feet below the sediment surface or to refusal, if it is less than 5 feet below the sediment surface. Surface sediment samples associated with sediment cores will be collected from a depth of 0 to 6 inches below the sediment surface. Specific sampling depth intervals and locations will detailed in the work plan.

4.3.2 Surface Water Data Gaps and Recommendations

Surface water sampling was conducted within Troy Chemical and upstream and downstream of the property with each sediment sampling event mentioned in the previous section except in 2015. Elevated concentrations of VOCs, benzene, PAHs, mercury, and other metals were identified in surface water above NJDEP SWQS.

Surface water samples were also collected in the open channel sections of Pierson's Creek and associated drainage ditches in support of the HRS report. Additional surface water samples are recommended to be collected within this entire section of Pierson's Creek (co-located with sediment samples) to estimate equilibrium conditions within the creek.

Surface water samples will be co-located with each of the sediment sampling locations described in the previous section. Additional surface water samples will be collected at the start and end of each property and/or culverts. Because it is likely that sediment transport occurs primarily during storm events, surface water samples will be collected during both dry- and wet-weather conditions. Dry-weather samples will represent baseline conditions.

4.3.3 Soil Data Gaps and Recommendations

Soil sampling at the Troy Chemical property conducted in 1988, 1998, 2000, 2004, and 2005 showed mercury, arsenic, lead, BTEX, PCE, TCE, benzo[a]pyrene, and petroleum hydrocarbons above NJDEP NRDCSCC.

Soil-related remedial actions were completed at 429 Delancy Street in 1994. However, certain metals, SVOCs, TPH, methylene chloride, and PCBs were subsequently identified in a 2005 BEE

for the property at concentrations above screening values for soils. Surface soil samples are needed to determine current contamination levels in the eastern portion of the property where sediments removed from the creek in 1980 were deposited (i.e., sediment sidecast area). In addition, soils adjacent to the creek may have been impacted by contaminants dispersed during periodic flooding events that are known to have occurred on the creek.

Surface soil samples will be collected in upland areas adjacent to the creek and from the creek banks to provide data to assess contaminants in soils that may be eroded into the creek. The soil samples will be located along the same transects identified for sediments in Section 4.5.1 above. Surface and subsurface soil samples will be collected in areas that may have been contaminated by creek overflow such as near the tributary at the Globe Metals property and the east side of 429 Delancy Street property (i.e., sediment sidecast area). Specific sampling depth intervals and locations will detailed in the work plan.

4.3.4 Groundwater Data Gaps and Recommendations

Several temporary groundwater monitoring wells have existed at the Troy Chemical property since the 1980s, and shallow groundwater monitoring is being conducted at the property due to the requirements of the CEA/WRA. The primary contaminants in groundwater included benzene, PCE, TCE, arsenic, lead, and mercury at concentrations exceeding NJDEP Groundwater Quality Criteria.

Lead, benzene, pesticides, PCBs, and PAHs were detected at elevated concentrations in groundwater at the 429 Delancy Street property, and NJDEP approved a CEA for the groundwater at this property. Groundwater monitoring wells are proposed near the creek within this area in order to determine potential influx of contamination to Pierson's Creek.

Historically, free product has been identified in the groundwater at the former USF Red Star property, with high concentrations of lead, VOCs, PAHs, and BTEX compounds. Recovery and monitoring of free phase product was continued at the property until 2006 when a groundwater CEA was requested from NJDEP. Shallow monitoring wells will be installed in this stretch of the creek to understand the hydraulic relationship between groundwater and the creek and the potential flow of groundwater contaminants into the creek.

At the locations of the sediment sampling transects, transects of shallow groundwater monitoring wells will be installed to understand groundwater flow to the creek and the relationship of groundwater to surface water in the creek. Each transect will include four wells per transect, two on each side of the creek. The first set of wells would be spaced as close to the creek as possible to screen the water table, and the second set of wells will be approximately 50 feet away from the creek.

The current well spacing for existing monitoring wells will be evaluated to determine the final number and placement of monitoring wells for the RI investigation. If possible, existing monitoring wells will be incorporated into the groundwater monitoring program.

Staff gauges will be placed in Pierson's Creek, adjacent to the upland monitoring wells, to collect stream elevation data to assess the relationship between groundwater and surface water.

4.4 South of the Conrail Rail Yard to the Point where the Creek Is Below Ground

South of the former Engelhard property, Pierson's Creek enters two 60-inch pipes and continues to flow below ground, under the Conrail Oak Island Rail Yard (Figure 4-2). It surfaces for a brief stretch south of the rail yard and goes below ground just north of the long term airport parking areas.

4.4.1 Sediment Data Gaps and Recommendations

No existing sediment data are available within this portion of Pierson's Creek.

Most of the creek is below ground within this section of the site, so sediment cores will be taken at the culverts where it enters and leaves the ground surface. These sediment cores will be collected down to the native contact (if it can be identified) or up to a depth of 5 feet below the sediment surface. Additional sediment cores will be collected from the tributary or feeder creek flowing into Pierson's Creek in this area.

4.4.2 Surface Water Data Gaps and Recommendations

No existing surface water data are available within this portion of Pierson's Creek.

A surface water sample will be collected at the start of this reach of the Creek just as it goes below ground, north of the Conrail Oak Island Rail Yard, and another surface water sample will be collected when the creek emerges from below ground, just south of the rail yard. Surface water samples will also be collected from the drainage ditch connected to the creek in this area. Surface water samples will be collected during both wet and dry weather in conjunction with the wet and dry-weather surface water samples described in Section 4.3.2. Surface water samples.

4.4.3 Soil Data Gaps and Recommendations

No existing soil data are available for this section of the site, and no additional soil samples are needed since most of the Creek is below ground.

4.4.4 Groundwater Data Gaps and Recommendations

There is no existing information available on the groundwater in this area and no historical monitoring wells. At the location where the creek resurfaces toward the south of the rail yard, two shallow monitoring wells will be installed on each bank, spaced as close to the creek as possible to screen the water table. The primary purpose of these wells is to understand the relationship between surface water and groundwater in this stretch of the creek. A staff gauge will also be installed in the creek to obtain water elevation in the creek relative to groundwater elevation.

4.5 Below Ground Portion of the Creek to the Port Newark Channel

Pierson's Creek continues below ground under the long term airport parking, resurfaces at the southern part of the parking area, flows as a surface channel for a short stretch along the NJTP, and goes below ground again (Figure 4-3). From here, it continues below ground up to the point

where it discharges into Port Newark Channel. Since most of the creek is below ground in this section, a limited amount of information is available. Recommendations for sample collection in this stretch of the creek are provided below.

Currently, no information is available on the precise alignment of the below ground pipes in this area, whether other stormwater flows enter the pipes, and the locations of access points and manholes. Efforts are ongoing to collect this information from the City of Newark. Additional sampling within the below ground pipes may be recommended if there are viable access points such as manholes from which samples can be collected.

4.5.1 Sediment Data Gaps and Recommendations

Existing sediment data are not available within this below ground portion of Pierson's Creek. Sediment cores are recommended within the above ground portion of the Creek near the NJTP. Sediment cores are also recommended in the tributary flowing into the creek from the east and from the west.

If information from the City of Newark indicates that there are accessible manholes along the below ground portion of the creek, additional sediment samples may be recommended.

4.5.2 Surface Water Data Gaps and Recommendations

Surface water samples will be collected in the above ground portion near the NJTP: where the creek resurfaces, where the above ground creek takes a sharp turn along the NJTP, and right before it enters the ground again. Surface water samples will be collected during both wet and dry weather in conjunction with the wet- and dry-weather surface water samples described in Section 4.3.2. Specific sampling depth intervals and locations will detailed in the work plan.

4.5.3 Soil Data Gaps and Recommendations

Existing soil sampling information does not exist within this section of the site, and no additional soil samples are necessary since most of the creek is below ground here.

4.5.4 Groundwater Data Gaps and Recommendations

At the location where the creek takes a sharp turn along the NJTP, two shallow monitoring wells will be installed on each bank, spaced as close to the creek as possible to screen the water table. The primary purpose of these wells is to understand the relationship between surface water and groundwater in this stretch of the creek. A staff gauge will also be installed in the creek to obtain water elevation in the creek relative to groundwater elevation.

4.6 Port Newark Channel

Pierson's Creek flows below ground and discharges to Port Newark Channel east of Corbin Street (Figure 4-4). Contaminants released to upstream sections of Pierson's Creek potentially could migrate downstream and discharge to the Port Newark Channel and Newark Bay.

4.6.1 Sediment Data Gaps and Recommendations

Sampling data in Port Newark channel are limited to three sediment cores collected by Tierra Solutions. Only one of the three cores is located near the point where Pierson's Creek discharges to the Port Newark Channel. To provide data to evaluate the potential impact of contaminants

released to Pierson's Creek on sediments in the Port Newark channel, it is recommended that sediment cores be collected in Port Newark channel. Sediment cores will be collected along transects oriented perpendicular to the long axis of the channel. Transects would begin near the Pierson's Creek discharge point and outward toward (southeast) Newark Bay. Specific sampling locations and sample depth intervals will detailed in the work plan.

4.6.2 Surface Water Data Gaps and Recommendations

It is recommended that samples of water discharging from Pierson's Creek to the Port Newark channel be collected during both wet- and dry-weather conditions. Contaminants in the Pierson's Creek sediments are likely to be mobilized during storms when flow is high. Dry-weather samples represent baseline conditions.

Since the Pierson's Creek discharge point has a tide gate to limit tidal inflow into the creek, discharge samples will be collected from a manhole close to the discharge point (if available). Dry-weather flow is expected to occur only during low tide. However, additional information is needed from the City of Newark regarding the structure and elevation of the tide gate and to assess flow and tide elevations needed to trip the tide gate.

4.6.3 Soil and Groundwater data Gaps and Recommendations

No soil or groundwater samples are recommended in this below ground section of the creek.

Section 5

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Tables

Table 3-1
Summary of Key Contaminants in Groundwater
Pierson's Creek Site
Newark, New Jersey

Property	Key Contaminants	Range of Detected Concentrations (µg/L)	New Jersey Groundwater Quality Standards Class IIA Water (NJGQS)[1] (µg/L)
Troy Chemical Property	Benzene	ND to 10,000	1
	1,1-dichloroethane	ND to 2,000	50
	Vinyl chloride	ND to 2,260	1
	Mercury	ND to 47,000	2
	Arsenic	5.7 to 334	3
	Lead	ND to 274	5
	Tetrachloroethene	ND to 130,000	1
	Trichloroethene	ND to 12,000	1
	1,1-dichloroethene	ND to 230	1
	cis-1,2-dichloroethene	ND to 12,600	70
429 Delancy Street Property (formerly Engelhard Corporation)	Lead	14.9 to 3,310	5
	Mercury	ND to 3	2
	Arsenic	ND to 74	3
	Copper	ND to 11,300	1300
	Total PCBs	ND to 1.9	0.5
	4,4'-DDD	ND to 0.14	0.1
	4,4'-DDE	ND to 0.13	0.1
	4,4'-DDT	ND to 0.38	0.1
	Benzene	ND to 3.7	1
	Benzo(a)pyrene[2]	ND to 1.96	0.1
400 Delancy Street Property (formerly USF Red Star)	Lead	10 to 1,800	5
	Benzene	ND to 85.2	1
	Total Xylenes	ND to 546	1,000
	2-methyl naphthalene	ND to 3430	30
	Fluorene	ND to 419	300
	Phenanthrene	ND to 593	100
	Benzo(a)pyrene	ND to 7.66	0.1
338 Wilson Avenue Property (Formerly Albert Steel Drum / Prentiss Drug & Chemical, and others)	Trichloroethene	2 to 3,000	1
	Total SVOCs	ND to 393	300[2]
	Chlordane	ND to 6.4	0.5
	Total PCBs	ND to 8.7	0.5
	Arsenic	ND to 40,100	3
	Total VOCs	ND to 35,170	1[3]
	Vinyl chloride	2 to 2,100	1
	cis-1,2-dichloroethene	ND to 27,000	70
80 Avenue K Property	Benzene	ND to 14	1

Notes:

[1] New Jersey Ground Water Quality Standards Class IIA (NJAC 7:9C), July 22, 2010, re-adopted March 4, 2014. The groundwater quality criteria used in the table are the higher of the individula groundwater quality criterion and the practical quantitation level (PQL).

New Jersey Interim Specific & Generic Groundwater Quality Criteria (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm)

[2]NJDEP Surface Water Quality Standard value for Naphthalene is used as a representative screening value for total SVOCs

[3]NJDEP Surface Water Quality Standard value for TCE is used as a representative screening value for total VOCs

NJGQS - New Jersey Groundwater Quality Standards

SVOCs - Semivolatile organic compounds

VOCs - Volatile organic compounds

PCBs - Polychlorinated biphenyls

µg/L - Microgram per liter

ND - Not detected

Table 3-2
Summary of Key Contaminants in Soil
Pierson's Creek Site
Newark, New Jersey

Property	Key Contaminants	Range of Detected Concentrations (mg/kg)	NJDEP Default Impact to Groundwater Soil Remediation Standard (NJIGWSRS)[1] (mg/kg)
Troy Chemical Property	Mercury	ND to 4,290	0.1
	Benzene	ND to 123	0.005
	Lead	ND to 61,000	59
	Arsenic	2.4 to 890	0.006
	Benzo(a)pyrene	ND to 120	0.2
	Tetrachloroethene	ND to 3,110	0.007
	Trichlotoethene	ND to 174	0.005
	cis-1,2-dichloroethene	ND to 152	0.2
	Fluorene	ND to 16	110
	Benzo(b)fluoranthene	1.2 to 5.4	2
	Benzo(a)pyrene	ND to 120	0.2
	Total PCBs	ND to 8.2	0.2
	4,4'-DDD	0.034 to 52	3
	1,1-dichloroethane	ND to 10.6	0.2
	Vinyl chloride	ND to 39.1	0.005
	Total Xylenes	0.313 to 398	12
	Chlorobenzene	ND to 6.4	0.4
	Ethylbenzene	0.102 to 109	8
	Methylene chloride	ND to 1.67	0.007
429 Delancy Street Property (formerly Engelhard Corporation)	Lead	5.1 to 10,600	59
	Dieldrin	ND to 0.478	0.003
	4,4'-DDT	ND to 3.78	7
	Total PCBs	0.497 to 3.30	0.2
	Benzo(a)pyrene[2]	0.493 to 82.5	0.2
	Total Chromium	ND to 1,200	NL
400 Delancy Street Property (formerly USF Red Star)	Total VOCs	0.006 to 8.60	0.005[3]
	Lead	ND to 2,900	59
	Benzo(a)pyrene	ND to 122	0.2

Table 3-2
Summary of Key Contaminants in Soil
Pierson's Creek Site
Newark, New Jersey

Property	Key Contaminants	Range of Detected Concentrations (mg/kg)	NJDEP Default Impact to Groundwater Soil Remediation Standard (NJIGWSRS)[1] (mg/kg)
338 Wilson Avenue Property (Formerly Albert Steel Drum / Prentiss Drug & Chemical, and others)	2,3,7,8-TCDD	ND to 0.214	NL
	Pesticides	ND to 517	7[4]
	Fluoranthene	ND to 117	840
	Benzo-(k)-fluroanthene	ND to 115	16
	Benzo-(a)-pyrene	ND to 83.8	0.2 PQL
	Tetrachloroethene	0.12 to 12	0.007
	Trichlotoethene	0.064 to 4.5	0.005
	1,1-Dichloroethane	0.02 to 0.12	0.2
	Carbon tetrachloride	ND to 0.19	0.005 PQL
	1,2-dichloroethene	0.023 to 12	0.2
	Vinyl chloride	ND to 2.2	0.005 PQL
	Chlorobenzene	0.23 to 8.6	0.4
	BTEX	0.078 to 110	12[5]
	Total SVOCs	ND to 316.7	300[6]
	Total PCBs	ND to 149	0.2
	Arsenic	100 to 6,527	0.006
	Copper	ND to 3,100	7,300
	Lead	ND to 6,160	59
	Mercury	922 to 2,770	0.1 PQL
	Zinc	ND to 2,890	600
80 Avenue K Property	Benzo(a)anthracene	ND to 2.50	0.5

Notes:

[1] NJDEP 2008. Guidance Document, Development of Site-Specific Impact to Groundwater Soil Remediation Standards Using the Soil-Water Partition Equation (Revised December 2008); http://www.nj.gov/dep/srp/guidance/rs/igw_intro.htm. Where PQL is indicated in the table, the criterion used is the higher value of the the soil remediation standard and the practical quantitation level (PQL).

[2] Benzo(a)pyrene used as a representative compound for all PAHs.

[3] NJDEP Default Impact to Groundwater Soil Remediation Standard value for TCE is used as a representative screening value for total VOCs

[4]NJDEP Default Impact to Groundwater Soil Remediation Standard value for 4,4'-DDT used as a representative screening value for pesticides

[5]NJDEP Default Impact to Groundwater Soil Remediation Standard value for Xylenes used as a representative screening value for BTEX compounds

[6]NJDEP Surface Water Quality Standard value for Naphthalene is used as a representative screening value for total SVOCs

NL - Not listed
ND - Not detected
PQL - Practical quantitation level
mg/kg - milligram per kilogram
TCDD - Teterachlorodibenzo dioxin
PCBs - Polychlorinated biphenyls
VOCs - volatile organic compounds
BTEX - Benzene, toluene, ethylbenzene, xylene
SVOCs - Semivolatile organic compounds

Table 3-3
Summary of Key Contaminants in Sediment
Pierson's Creek Site
Newark, New Jersey

Property	Key Contaminants	Range of Detected Concentrations (mg/kg)	NJDEP Ecological Evaluation Technical Guidance (1) (mg/kg)
Troy Chemical Property	Mercury	7.3 to 607,000	0.2
	Lead	2,870 to 194,600	31
	Arsenic	849 to 4,080	6
	Copper	ND to 778	16
	Benzo(a)pyrene[2]	ND to 4.93	0.37
	Total PCBs	ND to 650	0.07
	Total SVOCs	ND to 580	0.176[3]
	Total VOCs	0.021 to 8,907	0.990[4]
	Benzene	0.13 to 3,600	0.142
	PCE	ND to 11,000	0.112
	TCE	ND to 2,000	0.99
429 Delancy Street Property (formerly Engelhard Corporation)	Nickel	ND to 45,000	16
	Cadmium	ND to 390	0.60
338 Wilson Avenue Property (Formerly Albert Steel Drum / Prentiss Drug & Chemical, and others)	Mercury	ND to 191	0.20
	Total VOCs	ND to 500	0.990[4]
	Total PAHs	ND to 1,164.1	0.37[5]
	Total PCBs	ND to 580	0.07
	Pesticides	ND to 160.2	0.008[6]

Notes:

[1] NJDEP Ecological Evaluation Technical Guidance. (http://www.nj.gov/dep/srp/guidance/index.html). August 2011.
NJDEP Ecological Screening Criteria. (webpage http://www.state.nj.us/dep/srp/regs/sediment/table_01.htm). March 2009.

[2]Benzo(a)pyrene used as a representative compound for all PAHs.

[3]NJDEP Ecological Evaluation Technical Guidance value for Naphthalene is used as a representative screening value for total SVOCs

[4]NJDEP Ecological Evaluation Technical Guidance value for TCE is used as a representative screening value for total VOCs

[5]NJDEP Ecological Evaluation Technical Guidance value for Benzo(a)pyrene is used as a representative screening value for total PAHs

[6]NJDEP Ecological Evaluation Technical Guidance value for 4,4'-DDT is used as a representative screening value for pesticides

SVOCs - Semivolatile organic compounds
VOCs - Volatile organic compounds
PAHs - Polycyclic aromatic hydrocarbons
PCBs - Polychlorinated biphenyls
mg/kg - milligram per kilogram
ND - Not detected

Table 3-4
Summary of Key Contaminants in Surface Water
Pierson's Creek Site
Newark, New Jersey

Property	Key Contaminants	Range of Detected Concentrations (µg/L)	NJDEP Surface Water Quality Criteria for Fresh Water (NJSWQC-HH) (Human Health)[1] (µg/L)
Troy Chemical Property	Benzene	ND to 95	0.15
	Vinyl chloride	ND to 35	0.082
	Total VOCs	10 to 577	0.34[3]
	Benzo(a)pyrene[2]	ND to 3	0.0038
	Trichloroethene	ND to 60	0.34
	Arsenic	ND to 36	0.017
	Lead	ND to 170	5
	Mercury	ND to 12.4	0.05
338 Wilson Avenue Property (Formerly Albert Steel Drum / Prentiss Drug & Chemical, and others)	Mercury	ND to 55	0.05
	Trichloroethene	ND to 170	0.34
	Tetrachloroethene	ND to 540	1
	Arsenic	ND to 3,600	0.017
	Total PCBs	ND to 4.0	0.000064
	Copper	ND to 218	1,300
	Lead	ND to 307	5
	Zinc	ND to 654	7,400
	Benzene	ND to 10	0.15
	Vinyl chloride	ND to 16	0.082
	Dioxins	ND to 0.9	0.000000005[4]

Notes:

[1] NJDEP Surface Water Quality Standards. (web page http://www.nj.gov/dep/rules/rules/njac7_9b.pdf). April 2011, re-adopted October 17, 2016

[2] Benzo(a)pyrene used as a representative compound for all PAHs.

[3] NJDEP Surface Water Quality Criteria for Fresh Water Human Health value for TCE is used as a representative screening value for total VOCs

[4]NJDEP Surface Water Quality Criteria for Fresh Water Human Health value for 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) is used as a representative screening value for dioxins

VOCs - Volatile organic compounds

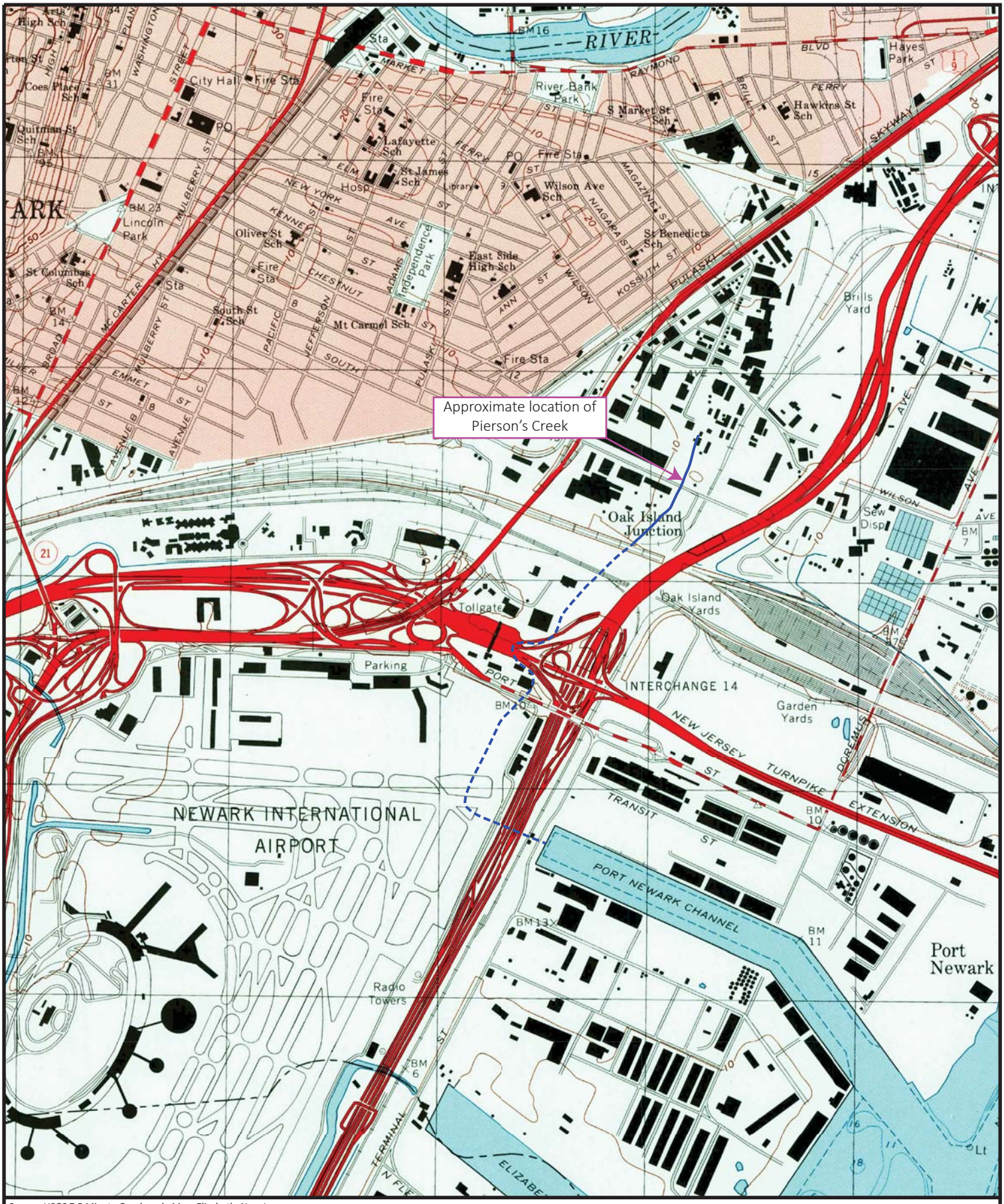
PCBs - Polychlorinated biphenyls

µg/L - microgram per Liter

ND - Not detected

NJSWQC - New Jersey surface water quality criteria

Figures



Source: USGS 7.5 Minute Quadrangle Map, Elizabeth, New Jersey

Aboveground portion of Pierson's Creek

Underground portion of Pierson's Creek

CDM Smith

N

0 1,000 2,000 3,000 Feet

Figure 1-1
Site Location
Pierson's Creek
Newark, New Jersey

Pierson's Creek Orientation

- Current Pierson's Creek Channel (open channel)
- Current Pierson's Creek Channel (culverted)
- Feeder Creeks
- Former Portion of Pierson's Creek
- Essex County Tax Parcels

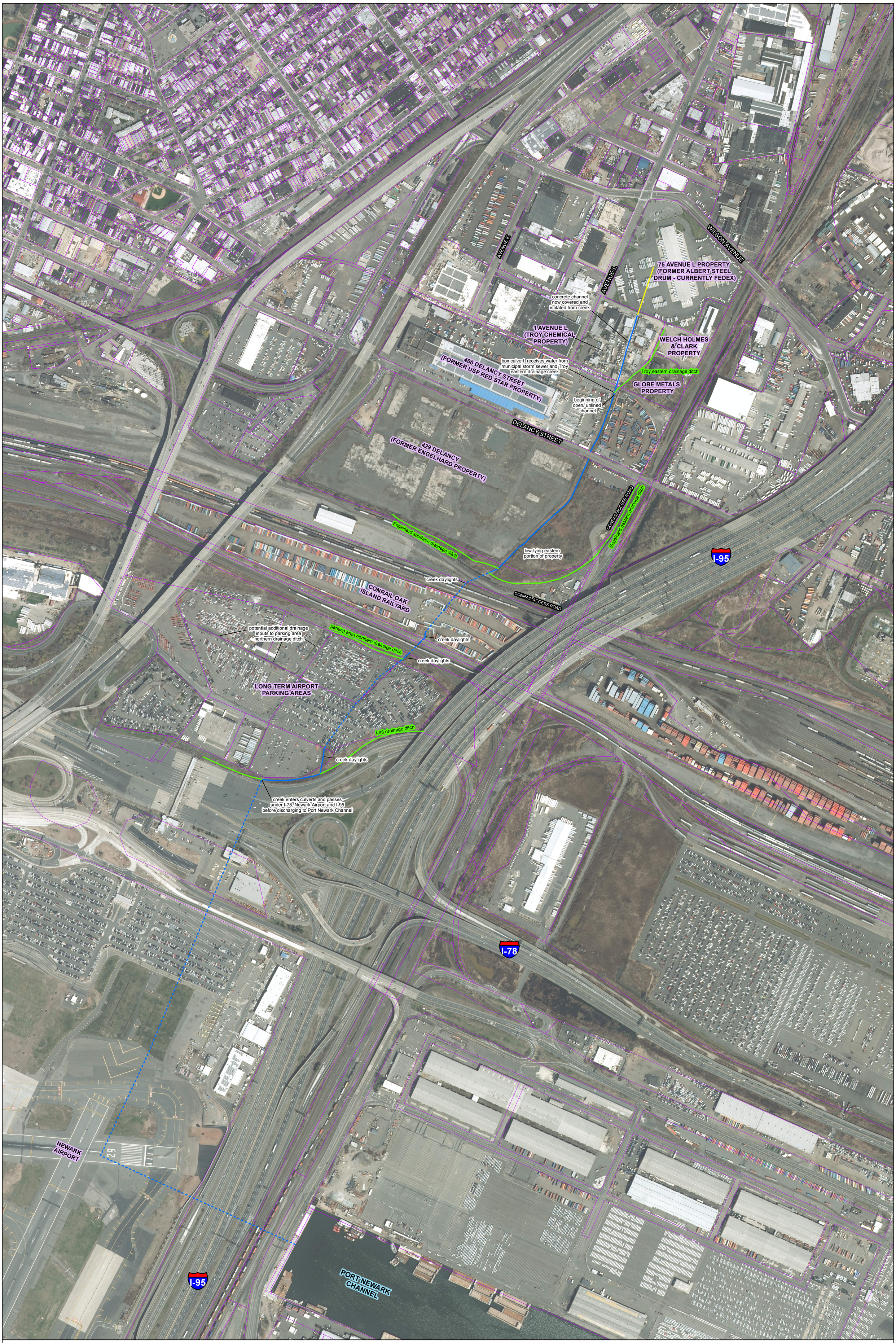
N

0 150 300 Feet

1 in = 150 feet

Figure 1-2
Comparison of 2015 and 1995 Aerial Imagery
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith



Pierson's Creek Orientation

- Current Pierson's Creek Channel (open channel)
- Current Pierson's Creek Channel (culverted)
- Feeder Creeks
- Former Portion of Pierson's Creek
- Essex County Tax Parcels

N

0 300 600 Feet

1 in = 300 feet

Figure 1-3
Pierson's Creek Orientation
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith

Pierson's Creek Orientation

- Current Pierson's Creek Channel (open channel)
- Current Pierson's Creek Channel (culverted)
- Feeder Creeks
- Former Portion of Pierson's Creek
- Essex County Tax Parcels

N

0 200 400 Feet

1 in = 200 feet

Figure 4-1
Eastern Troy Drainage Ditch to Conrail Yard
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith

429 DELANCY
(FORMER ENGELHARD PROPERTY)

Engelhard southern drainage ditch

low-lying eastern portion of property

CONRAIL OAK ISLAND RAILYARD

CONRAIL ACCESS ROAD

parking area northern drainage ditch

potential additional drainage inputs to parking area northern drainage ditch

creek daylights

creek daylights

creek daylights

I-95

LONG TERM AIRPORT PARKING AREAS

Pierson's Creek Orientation

- Current Pierson's Creek Channel (open channel)
- Current Pierson's Creek Channel (culverted)
- Feeder Creeks
- Former Portion of Pierson's Creek
- Essex County Tax Parcels

N

0 200 400 Feet

1 in = 200 feet

Figure 4-2
Conrail Yard to Below-ground Section of Creek
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith

Pierson's Creek Orientation

- Current Pierson's Creek Channel (open channel)
- Current Pierson's Creek Channel (culverted)
- Feeder Creeks
- Former Portion of Pierson's Creek
- Essex County Tax Parcels

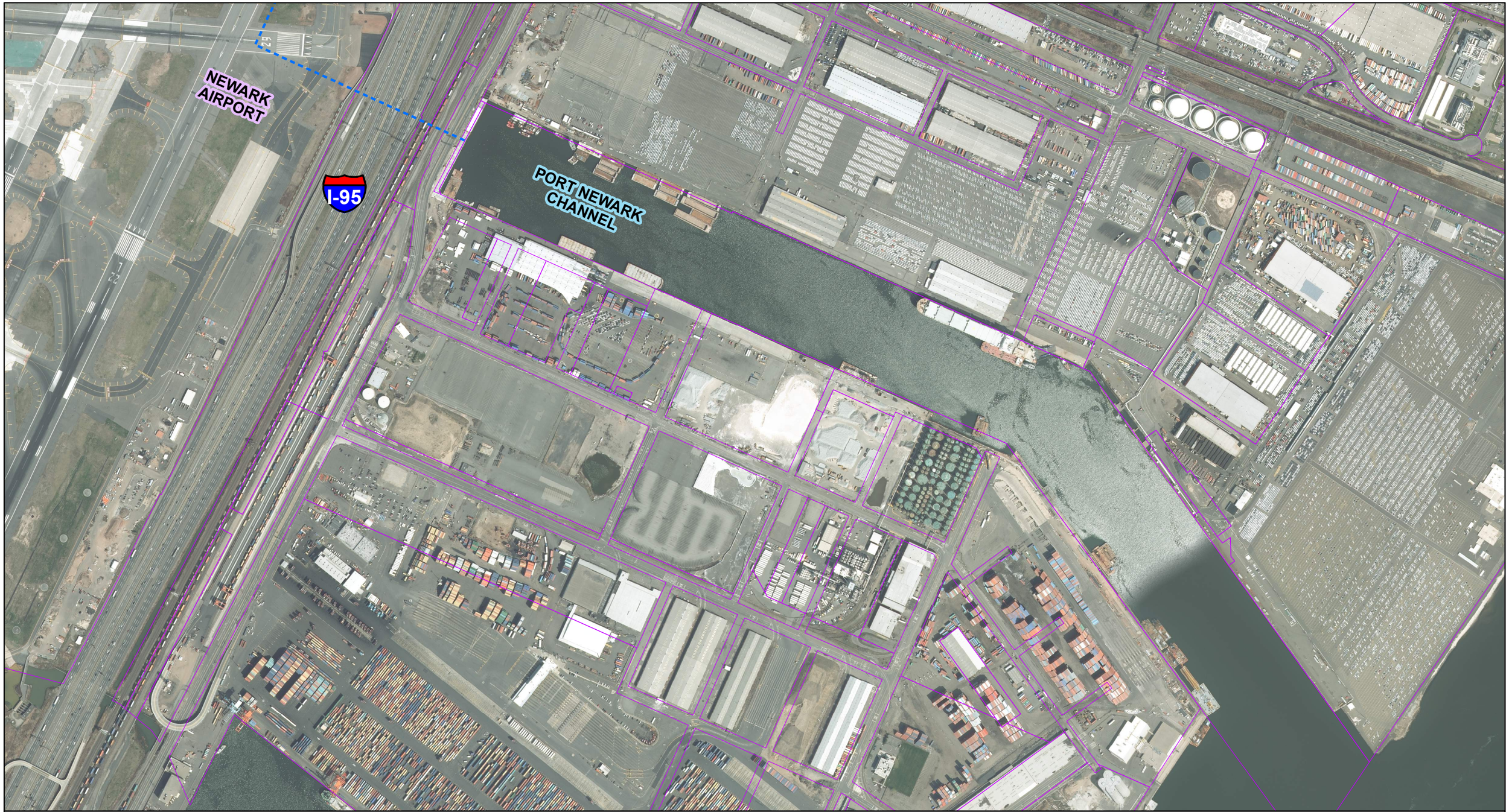
N

0 300 600 Feet

1 in = 300 feet

Figure 4-3
Below-ground Section of Creek to Port Newark Channel
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith



Pierson's Creek Orientation

- Current Pierson's Creek Channel (open channel)
- Current Pierson's Creek Channel (culverted)
- Feeder Creeks
- Former Portion of Pierson's Creek
- Essex County Tax Parcels

N

0 600 1,200 Feet

1 in = 600 feet

Figure 4-4
Port Newark Channel
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith

Appendix A

Appendix A
Analytical Data Tables

Hazard Ranking System Data
Tierra Solutions 2008 Data

Table A-1-1
Surface Water Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	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	Result Q	Result Q
Pesticides																								
72-54-8	4,4'-DDD	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
72-55-9	4,4'-DDE	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
50-29-3	4,4'-DDT	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
309-00-2	Aldrin	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
319-84-6	alpha-BHC	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.056 R	0.05 UJ	0.05 UJ
5103-71-9	alpha-Chlordane	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
319-85-7	beta-BHC	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
319-86-8	delta-BHC	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.09 NJ	0.11 J	0.05 UJ
60-57-1	Dieldrin	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
959-98-8	Endosulfan I	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.034 J	0.05 U	0.05 U	0.05 U	0.071 J	0.05 U	0.05 U	0.05 U	0.031 J	0.032 J	0.028 J	0.03 J	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
33213-65-9	Endosulfan II	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
1031-07-8	Endosulfan Sulfate	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
72-20-8	Endrin	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
7421-93-4	Endrin aldehyde	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
53494-70-5	Endrin Ketone	CPEST	ug/l	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ
58-89-9	gamma-BHC (Lindane)	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
5103-74-2	gamma-Chlordane	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.092 R	0.05 U	0.08 J	0.05 UJ	0.059 NJ	0.057 J	0.091 R	0.085	0.11 R	0.086 R	0.05 UJ
76-44-8	Heptachlor	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
1024-57-3	Heptachlor Epoxide	CPEST	ug/l	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ
72-43-5	Methoxychlor	CPEST	ug/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
8001-35-2	Toxaphene	CPEST	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ
Metals																								
7429-90-5	Aluminum	E200.7	ug/l	532	358	222	200 U	200 U	236	156 J	3290	200 U	200 U	42.5 J	200 UJ	369 J	95.6 J	57 J	200 U	685 J	191 J	162 J	352	54 J
7440-36-0	Antimony	E200.7	ug/l	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
7440-38-2	Arsenic	E200.7	ug/l	10 U	10 U	11.4	15.8	8.3 J	9.2 J	7.4 J	8 J	10	10 U	31.4	78.1	111	115	62.2	103	179	59.7	149	93.5	80.3
7440-39-3	Barium	E200.7	ug/l	52.3 J	111 J	110 J	201 R	120 R	236 R	213 R	156 R	143 R	51.6 R	163 R	174 J	215	217	167 J	151 J	142 J	183 J	144 J	124 J	75.5 J
7440-41-7	Beryllium	E200.7	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
7440-43-9	Cadmium	E200.7	ug/l	1.1 J	1.6 J	1.1 J	0.95 J	1.2 J	1 J	1.1 J	0.93 J	1.1 J	1.1 J	1 J	0.63 J	0.5 J	0.37 J	0.7 J	5 U	5 U	0.68 J	0.48 J	5 U	5 U
7440-70-2	Calcium	E200.7	ug/l	282000	233000	107000	122000	189000	161000	184000	38200	196000	273000	148000	122000	98900	104000	141000	106000	77300	151000	108000	61300	53500
7440-47-3	Chromium	E200.7	ug/l	2.8 J	2.4 J	1.9 J	1.8 J	10 U	3.3 J	2.3 J	12	10 U	10 U	1.1 J	0.7 J	3 J	1.6 J	1.7 J	0.82 J	5.1 J	1.6 J	2.4 J	2.9 J	2.1 J
7440-48-4	Cobalt	E200.7	ug/l	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	2 J	50 U	1.1 J	2.1 J	0.71 J
7440-50-8	Copper	E200.7	ug/l	15.1 J	15 J	13.8 J	25 U	25 U	18.9 J	9.1 J	90.1	25 U	25 U	25 U	25 U	25 U	25 U	25 U	6.3 J	18.7 J	17 J	4 J	13.6 J	10.7 J
7439-89-6	Iron	E200.7	ug/l	402	681	1360	2780	635	3220	2280	12700	579	100 U	2180	2760 J	5370 J	4810 J	3090 J	4200	8760 J	3240	3120	2640	1080
7439-92-1	Lead	E200.7	ug/l	11.9	13.4	10 U	13.8 J	10 UJ	24.3 J	22.3 J	170 J	10 UJ	10 UJ	3.3 J	10 UJ	20.8 J	7.1 J	7.3 J	9.8 J	38.7 J	34.1	17.3	21.9	10.4
7439-95-4	Magnesium	E200.7	ug/l	822000	630000	237000	234000	486000	273000	367000	10200	444000	864000	125000	86400	45800	44700	93600	54100	33100	173000	112000	31300	25500
7439-96-5	Manganese	E200.7	ug/l	57.4	136	218	291	178	541	285	1030	264	43.2	367	342	325	342	366	324	308	363	333	372	213
7440-02-0	Nickel	E200.7	ug/l	40 U	40 U	40 U	1.4 J	40 U	4.3 J	5.1 J	16.5 J	40 U	40 U	4.6 J	2.7 J	3.9 J	3.7 J	3.4 J	1.8 J	5 J	3.4 J	3 J	4.6 J	3.2 J
9/7/7440	Potassium	E200.7	ug/l	255000	197000	75400	80400	154000	90100	118000	8260	145000	252000	47100	35800	23100	23300	38800	25600	17600	64200	45700	19200	17400
7782-49-2	Selenium	E200.7	ug/l	35 U	4.5 J	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
7440-22-4	Silver	E200.7	ug/l	1.1 J	1.1 J	10 U	10 U	0.88 J	10 U	10 U	2.4 J	10 U	1.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
7440-23-5	Sodium	E200.7	ug/l	7580000	5850000	2050000	2040000	3950000	2350000	2860000	165000	3990000	7030000	1010000	781000	407000	373000	770000	476000	286000	1360000	895000	294000	247000
7440-28-0	Thallium	E200.7	ug/l	25 U	25 U	25 U	5.3 J	6.6 J	3.7 J	2.9 J	3 J	6.7 J	6.4 J	25 U	25 U	25 U	2.7 J	25 U	25 U	2.5 J	25 U	25 U	2.5 J	2.3 J
7440-62-2	Vanadium	E200.7	ug/l	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	3.4 J	50 U	50 U	1.7 J	50 U
7440-66-6	Zinc	E200.7	ug/l	34.1 J	51.8 J	50.1 J	69.1	28 J	39.7 J	55.1 J	569	26.3 J	20.2 J	35.5 J	22.9 J	98.5	52.6 J	35.4 J	35.8 J	165	117	111	132	71.5
7439-97-6	Mercury	E245.2	ug/l	0.64	0.38	0.13 J	0.45 J	0.12 J	1.8 J	2.4 J	0.43 J	0.17 J	0.32 J	0.42 J	0.2 UJ	0.47 J	0.21 J	0.56 J	0.077 J	0.51 J	0.33	0.29	0.29	0.2 U
PCB Aroclors																								
12674-11-2	Aroclor 1016	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
11104-28-2	Aroclor 1221	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
11141-16-5	Aroclor 1232	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
53469-21-9	Aroclor 1242	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
12672-29-6	Aroclor 1248	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
11097-69-1	Aroclor 1254	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
11096-82-5	Aroclor 1260	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
37324-23-5	Aroclor 1262	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
11100-14-4	Aroclor 1268	E608	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Volatile Organic Compounds																								
71-55-6	1,1,1-Trichloroethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	8.7	15	11	10	13	10	7.4	8.7	18	4.5 J	2.2 J

Table A-1-1
Surface Water Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	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	Result Q	Result Q
79-34-5	1,1,2,2-Tetrachloroethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
79-00-5	1,1,2-Trichloroethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-34-3	1,1-Dichloroethane	E624	ug/l	5 U	5 U	2.5 J	3.3 J	6.4	5 U	5 U	5 U	4.9 J	5 U	21	36	27	26	33	28	25	22	47	13	6.9
75-35-4	1,1-Dichloroethene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
87-61-6	1,2,3-Trichlorobenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
120-82-1	1,2,4-Trichlorobenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
96-12-8	1,2-Dibromo-3-chloropropane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
106-93-4	1,2-Dibromoethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
95-50-1	1,2-Dichlorobenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
107-06-2	1,2-Dichloroethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
78-87-5	1,2-Dichloropropane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
541-73-1	1,3-Dichlorobenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
106-46-7	1,4-Dichlorobenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
123-91-1	1,4-Dioxane	E624	ug/l	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R
78-93-3	2-Butanone	E624	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8 J	10 U	33	150	280
591-78-6	2-Hexanone	E624	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-pentanone	E624	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	5.7 J	10 U	5.7 J	8.6 J	9.3 J
67-64-1	Acetone	E624	ug/l	10 U	10 U	23	12	10 U	15	10 U	10 U	23	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	370	790	1100
71-43-2	Benzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.9 J	2.4 J	2.3 J	2.4 J	2.5 J	2.4 J	5 U	4.2 J	5 U	5 U
74-97-5	Bromochloromethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-27-4	Bromodichloromethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-25-2	Bromoform	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
74-83-9	Bromomethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-15-0	Carbon Disulfide	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
56-23-5	Carbon Tetrachloride	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
108-90-7	Chlorobenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.6 J	5 U	3 J	5 U	5 U	5 U	2.5 J	5 U	5 U	3 J	5 U	5 U	5 U
75-00-3	Chloroethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.6 J	4.6 J	3.8 J	3.1 J	3.9 J	3.5 J	2.9 J	2.6 J	6.5	5 U	5 U
67-66-3	Chloroform	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
74-87-3	Chloromethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
156-59-2	cis-1,2-Dichloroethene	E624	ug/l	5 U	5 U	2 J	2.6 J	3.9 J	5 U	5 U	5 U	3.8 J	5 U	19 J	41	34	34 J	35	33 J	31	23 J	62	18	10
10061-01-5	cis-1,3-Dichloropropene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
110-82-7	Cyclohexane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
124-48-1	Dibromochloromethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-71-8	Dichlorodifluoromethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
100-41-4	Ethylbenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
98-82-8	Isopropylbenzene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
179601-23-1	m,p-Xylene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
79-20-9	Methyl acetate	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1634-04-4	Methyl tert-Butyl Ether	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
108-87-2	Methylcyclohexane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-09-2	Methylene Chloride	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
95-47-6	o-Xylene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
100-42-5	Styrene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
127-18-4	Tetrachloroethene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
108-88-3	Toluene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
156-60-5	trans-1,2-Dichloroethene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
10061-02-6	trans-1,3-Dichloropropene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
79-01-6	Trichloroethene	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-69-4	Trichlorofluoromethane	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
75-01-4	Vinyl Chloride	E624	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	4.1 J	9	8.4	8.3	7.5	8.6	8.2	4.9 J	12	5.7	3.9 J
Semivolatile Organic Compounds																								
92-52-4	1,1'-Biphenyl	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
95-95-4	2,4,5-Trichlorophenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
88-06-2	2,4,6-Trichlorophenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table A-1-1
Surface Water Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	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	Result Q	Result Q
120-83-2	2,4-Dichlorophenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
105-67-9	2,4-Dimethylphenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
51-28-5	2,4-Dinitrophenol	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
121-14-2	2,4-Dinitrotoluene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
606-20-2	2,6-Dinitrotoluene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
91-58-7	2-Chloronaphthalene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
95-57-8	2-Chlorophenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
91-57-6	2-Methylnaphthalene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
95-48-7	2-Methylphenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
88-74-4	2-Nitroaniline	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
88-75-5	2-Nitrophenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
91-94-1	3,3'-Dichlorobenzidine	E625	ug/l	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
99-09-2	3-Nitroaniline	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl-phenylether	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
59-50-7	4-Chloro-3-methylphenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
106-47-8	4-Chloroaniline	E625	ug/l	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
106-44-5	4-Methylphenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
100-01-6	4-Nitroaniline	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
100-02-7	4-Nitrophenol	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
83-32-9	Acenaphthene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
208-96-8	Acenaphthylene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
98-86-2	Acetophenone	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	30	5 U
120-12-7	Anthracene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
1912-24-9	Atrazine	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
100-52-7	Benzaldehyde	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	6.8	5 U
56-55-3	Benzo(a)anthracene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 J	5 U	5 U	5 U	5 U
50-32-8	Benzo(a)pyrene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U
205-99-2	Benzo(b)fluoranthene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.4 J	5 U	1.3 J	5 UJ	5 U
191-24-2	Benzo(g,h,i)perylene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U
207-08-9	Benzo(k)fluoranthene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.94 J	5 U	5 U	5 UJ	5 U
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
111-44-4	Bis(2-chloroethyl)ether	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
85-68-7	Butylbenzylphthalate	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
105-60-2	Caprolactam	E625	ug/l	5 U	5 U	1.5 J	1.2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
86-74-8	Carbazole	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
218-01-9	Chrysene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.4 J	5 U	1 J	5 U	5 U
53-70-3	Dibenzo(a,h)anthracene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U
132-64-9	Dibenzofuran	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
84-66-2	Diethylphthalate	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
131-11-3	Dimethylphthalate	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
84-74-2	Di-n-butylphthalate	E625	ug/l	10	11	11	12	7.8	9.1	12	5.8	5.6	5.2	24	21 U	15 U	21 U	13 U	24	23	20 U	49	25	5 U
117-84-0	Di-n-octylphthalate	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
206-44-0	Fluoranthene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.8 J	1 J	1.5 J	5 U	5 U
86-73-7	Fluorene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
118-74-1	Hexachlorobenzene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
87-68-3	Hexachlorobutadiene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
77-47-4	Hexachlorocyclopentadiene	E625	ug/l	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
67-72-1	Hexachloroethane	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U
78-59-1	Isophorone	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
91-20-3	Naphthalene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
98-95-3	Nitrobenzene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
86-30-6	N-Nitrosodiphenylamine	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
87-86-5	Pentachlorophenol	E625	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ

Table A-1-1
Surface Water Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample ID	PC-SW01	PC-SW02	PC-SW04	PC-SW05	PC-SW07	PC-SW08	PC-SW09	PC-SW06	PC-SW11	PC-SW12	PC-SW13	PC-SW14	PC-SW15	PC-SW16	PC-SW17	PC-SW18	PC-SW21	PC-SW22	PC-SW23	PC-SW24	PC-SW25
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	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	Result Q	Result Q
85-01-8	Phenanthrene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.2 J	5 U	5 U	5 U	5 U
108-95-2	Phenol	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
129-00-0	Pyrene	E625	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 J	5 U	1.2 J	5 U	5 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012
			Location ID	PC-SD01	PC-SD01	PC-SD02	PC-SD02	PC-SD04	PC-SD04	PC-SD05	PC-SD05	PC-SD07	PC-SD07	PC-SD08	PC-SD08
			Sample ID	PC-SD01A	PC-SD01B	PC-SD02A	PC-SD02B	PC-SD04A	PC-SD04B	PC-SD05A	PC-SD05B	PC-SD07A	PC-SD07B	PC-SD08A	PC-SD08B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
Grain Size Distribution															
% CLAY	% CLAY & COLLOIDS	ASTM D422-63 BIO 8.3	% by Weight	4.2	3.4	2.7		21	21	0.7	0.6	4.2	2.5 J		3.2 J
%COARSESAND	% Coarse Sand >0.5 - 1.0 mm	ASTM D422-63 BIO 8.3	% by Weight	8.4	4.4	9.3	10	5.3	6.4	19	14	11	8.9 J		7.1 J
%FINE SAND	% Fine Sand >.125 - .25 mm	ASTM D422-63 BIO 8.3	% by Weight	9.5	12	9.6	4.8	4.5	4.9	20	25	13	5.7 J		11 J
%PEBBLES	% Gravel & Larger >2.0 mm	ASTM D422-63 BIO 8.3	% by Weight	2.2	2.6	47	64	3.1	0.4	9.6	11	4.6	49 J	28 J	14 J
%MEDIUM SAND	% Medium Sand >.25 - .5 mm	ASTM D422-63 BIO 8.3	% by Weight	8.5	7	15	11	6	5.7	32	30	16	8.7 J		10 J
% SILT	% SILT	ASTM D422-63 BIO 8.3	% by Weight	54	56	8.4		53	54	6.9	9.8	37	11 J		39 J
%VERYCOARSESAND	% Very Coarse Sand >1 - 2 mm	ASTM D422-63 BIO 8.3	% by Weight	3.7	2	5.2	6	3.5	3.5	8.9	5.7	5.1	11 J		7.5 J
%VERYFINESAND	% Very Fine Sand >.0625 - .125 mm	ASTM D422-63 BIO 8.3	% by Weight	9.4	12	3	1.1	2.8	3.2	3.1	4.4	9.3	3.3 J		8 J
TOTALFINES	%Silt + % Clay/Colloids (%Total Fines)	ASTM D422-63 BIO 8.3	% by Weight				3								
Pesticides															
72-54-8	4,4'-DDD	CPEST	ug/kg	67	33 J	45	20	9.1 R	7.7 U	22	42 J	24	5.6 U	67	300
72-55-9	4,4'-DDE	CPEST	ug/kg	19 J	9.2 J	9.5 NJ	3.9 U	6.7 U	7.7 U	4.1 U	6.2 J	7.5 J	5.6 U	38 J	57
50-29-3	4,4'-DDT	CPEST	ug/kg	52 J	28 NJ	28	32 J	7.1 JN	7.7 U	4.1 U	6 R	39 J	8	170	61 U
309-00-2	Aldrin	CPEST	ug/kg	4.4 U	3.4 U	2.8 U	2 U	3.5 U	4 U	2.1 U	2.2 U	3.4 U	2.9 U	4.2 U	3.1 U
319-84-6	alpha-BHC	CPEST	ug/kg	8.4	5 J	200	310	2.1 J	4 U	2.1 U	12	3.4 U	2.9 U	2.2 J	5.5
5103-71-9	alpha-Chlordane	CPEST	ug/kg	13 JN	7.2 J	6.5 JN	3.5 J	3.5 U	4 U	2.1 U	2.2 U	5.8 JN	1.6 J	4.2 U	3.1 U
319-85-7	beta-BHC	CPEST	ug/kg	210	250	810	310	20 J	4 U	2.2 R	6.6 J	15 J	2.9 U	64 JN	32
319-86-8	delta-BHC	CPEST	ug/kg	4.4 U	2 J	2.8 U	2 U	3.5 U	4 U	2.1 U	2.2 U	3.4 U	2.9 U	4.2 U	3.1 U
60-57-1	Dieldrin	CPEST	ug/kg	12 NJ	8.1 J	8.2 J	10 JN	6.7 U	7.7 U	4.1 U	5 R	14 R	5.6 U	8.1 U	61 U
959-98-8	Endosulfan I	CPEST	ug/kg	4.4 U	3.4 U	2.8 U	2 U	3.5 U	4 U	2.1 U	2.2 U	3.4 U	2.9 U	4.2 U	3.1 U
33213-65-9	Endosulfan II	CPEST	ug/kg	8.5 U	6.7 U	5.4 U	3.9 U	6.7 U	7.7 U	4.1 U	4.3 U	6.5 U	5.6 U	41 U	6.1 U
1031-07-8	Endosulfan Sulfate	CPEST	ug/kg	18 NJ	6.7 UJ	7.1	3.9 U	6.7 U	7.7 U	4.1 U	4.3 U	8.4 J	5.6 U	8.1 U	6.1 U
72-20-8	Endrin	CPEST	ug/kg	8.5 UJ	6.7 U	5.4 U	3.9 U	6.7 U	7.7 U	4.1 U	4.3 U	8.1	5.6 U	8.1 U	6.1 U
7421-93-4	Endrin aldehyde	CPEST	ug/kg	16 J	11 J	5.4 U	4.3 J	6.7 U	7.7 U	2.4 J	4.3 U	14	3.3 J	8.1 U	6.9 JN
53494-70-5	Endrin Ketone	CPEST	ug/kg	10 JN	6.7 UJ	7.9 J	3.9 U	6.7 U	7.7 U	4.1 U	4.3 U	15 JN	5.6 U	17 J	6.1 U
58-89-9	gamma-BHC (Lindane)	CPEST	ug/kg	4.4 UJ	3.4 U	3.3 JN	3.5 JN	3.5 U	5.2 J	18 J	15 J	3.4 U	2.9 U	15 JN	31 U
5103-74-2	gamma-Chlordane	CPEST	ug/kg	44 U	3.4 UJ	140 U	50 U	3.5 U	4 U	2.3 R	2.2 U	7.3	2.9 U	53 JN	31 U
76-44-8	Heptachlor	CPEST	ug/kg	4.4 U	3.4 U	2.8 U	2.5 JN	3.5 U	4 U	2.1 U	2.2 U	3.4 U	2.9 U	4.2 U	3.1 U
1024-57-3	Heptachlor Epoxide	CPEST	ug/kg	44 U	3.4 U	3 JN	2 U	3.5 U	4 U	2.1 U	2.2 U	4.5 NJ	2.9 U	19 JN	12 JN
72-43-5	Methoxychlor	CPEST	ug/kg	44 U	34 U	28 U	20 U	35 U	40 U	21 U	22 U	34 U	29 U	42 U	31 U
8001-35-2	Toxaphene	CPEST	ug/kg	440 U	340 U	280 U	200 U	350 U	400 U	210 U	220 U	340 U	290 U	420 U	310 U
Metals															
7429-90-5	Aluminum	E200.7	mg/kg	15300 J	14500 J	10400 J	8200	11400	20800 J	10500	6170	11100	7340	15200 J	13000
7440-36-0	Antimony	E200.7	mg/kg	4.3 J	9.3 UJ	16.7 J	6.3 UJ	9.1 UJ	10.3 UJ	6.5 UJ	11.6 J	10 UJ	8.5 UJ	14.5 UJ	9.6 UJ
7440-38-2	Arsenic	E200.7	mg/kg	150 J	144 J	103 J	37	598	2770 J	26.2	22.6	63.3	69	97.8 J	93.9
7440-39-3	Barium	E200.7	mg/kg	454 J	422 J	237 J	76.8	188	97.6 J	140	157	305	317	900 J	1270
7440-41-7	Beryllium	E200.7	mg/kg	1.1 UJ	0.78 UJ	0.86 U	0.52 U	0.76 U	0.86 U	0.54 U	0.45 U	0.83 U	0.71 U	1.2 UJ	0.8 U
7440-43-9	Cadmium	E200.7	mg/kg	4.3 J	5.7 J	4.6 J	2.5	7.3	9.4 J	1.4	0.84	4	4.9	3.9 J	3.9
7440-70-2	Calcium	E200.7	mg/kg	8300 J	5990 J	7700 J	2910	2760	3120 J	10200	4510	18800	6640	10000 J	10200
7440-47-3	Chromium	E200.7	mg/kg	132 J	139 J	140 J	45.2 J	264 J	367 J	40.6 J	28.4 J	96.5 J	67.8 J	130 J	197 J
7440-48-4	Cobalt	E200.7	mg/kg	18.5 J	19.5 J	15.8 J	17.5	10.5	10.5 J	15.8	21.3	14.8	11.4	21.9 J	24.7

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012
			Location ID	PC-SD01	PC-SD01	PC-SD02	PC-SD02	PC-SD04	PC-SD04	PC-SD05	PC-SD05	PC-SD07	PC-SD07	PC-SD08	PC-SD08
			Sample ID	PC-SD01A	PC-SD01B	PC-SD02A	PC-SD02B	PC-SD04A	PC-SD04B	PC-SD05A	PC-SD05B	PC-SD07A	PC-SD07B	PC-SD08A	PC-SD08B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
7440-50-8	Copper	E200.7	mg/kg	586 J	623 J	493 J	268	245	157 J	165	250	427	358	581 J	512
7439-89-6	Iron	E200.7	mg/kg	71100 J	75600 J	38200 J	24200	24100	29500 J	25100	20300	40700	54700	40100 J	40900
7439-92-1	Lead	E200.7	mg/kg	602 J	624 J	416 J	270	257	248 J	206	190	451	487	1180 J	1570
7439-95-4	Magnesium	E200.7	mg/kg	8370 J	6800 J	5820 J	2960	4620	6900 J	3760	2160	12700	4060	4510 J	4250
7439-96-5	Manganese	E200.7	mg/kg	644 J	521 J	248 J	146 J	177 J	242 J	207 J	125 J	2320 J	1490 J	410 J	377 J
7440-02-0	Nickel	E200.7	mg/kg	90.8 J	93.6 J	96.2 J	50.9 J	102 J	44 J	43.7 J	29.5 J	67.7 J	52.2 J	130 J	130 J
9/7/7440	Potassium	E200.7	mg/kg	1980 J	1630 J	1080 J	503 J	1910	3390 J	1140	696	1440	916	1710 J	1370
7782-49-2	Selenium	E200.7	mg/kg	7.8 UJ	5.5 UJ	6 UJ	3.7 U	5.3 U	6 U	3.8 U	3.2 U	5.8 U	5 U	8.5 UJ	0.89 J
7440-22-4	Silver	E200.7	mg/kg	27.7 J	29.8 J	23.6 J	8.1	3.2	1.6 J	1.5	0.73 J	21.8	15.6	23.5 J	17.7
7440-23-5	Sodium	E200.7	mg/kg	9140 J	5620 J	4950 J	3520	3250	4990 J	2220	1700	5660	3240	6750 J	2050
7440-28-0	Thallium	E200.7	mg/kg	5.6 UJ	3.9 UJ	4.3 UJ	2.6 UJ	3.8 UJ	4.3 UJ	2.7 UJ	2.3 UJ	4.2 UJ	3.6 UJ	6 UJ	4 UJ
7440-62-2	Vanadium	E200.7	mg/kg	80.2 J	72.7 J	48.1 J	32.4	33.5	41.8 J	37.9	19.1	62.8	32.4	52.7 J	79.9
7440-66-6	Zinc	E200.7	mg/kg	1540 J	1750 J	1330 J	1430	1560	605 J	469	1040	1860	3920	863 J	1350
7439-97-6	Mercury	E245.5	mg/kg	172 J	167 J	110 J	97.8	10.6	16.2 J	1.9	2.6	74.9	90.1	59.4 J	41.1
PCB Aroclors															
12674-11-2	Aroclor 1016	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	81 U	61 U
11104-28-2	Aroclor 1221	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	81 U	61 U
11141-16-5	Aroclor 1232	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	81 U	61 U
53469-21-9	Aroclor 1242	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	4100 J	1000 J
12672-29-6	Aroclor 1248	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	81 U	61 U
11097-69-1	Aroclor 1254	E608	ug/kg	610 NJ	380 NJ	240 NJ	280 JN	67 U	77 U	41 U	43 U	300 NJ	92 JN	5200	1300
11096-82-5	Aroclor 1260	E608	ug/kg	660 J	570 J	310 J	1300 J	110 NJ	77 U	56 R	43 U	400 J	140 J	81 U	61 U
37324-23-5	Aroclor 1262	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	81 U	61 U
11100-14-4	Aroclor 1268	E608	ug/kg	86 U	66 U	54 U	39 U	67 U	77 U	41 U	43 U	66 U	56 U	81 U	61 U
Volatile Organic Compounds															
71-55-6	1,1,1-Trichloroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
79-34-5	1,1,2,2-Tetrachloroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
79-00-5	1,1,2-Trichloroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-34-3	1,1-Dichloroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-35-4	1,1-Dichloroethene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
87-61-6	1,2,3-Trichlorobenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
120-82-1	1,2,4-Trichlorobenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
96-12-8	1,2-Dibromo-3-chloropropane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
106-93-4	1,2-Dibromoethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
95-50-1	1,2-Dichlorobenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
107-06-2	1,2-Dichloroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
78-87-5	1,2-Dichloropropane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
541-73-1	1,3-Dichlorobenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
106-46-7	1,4-Dichlorobenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
123-91-1	1,4-Dioxane	E624	ug/kg	260 R	190 R	140 R	100 R	200 R	210 R	120 R	120 R	180 R	150 R	220 R	180 R
78-93-3	2-Butanone	E624	ug/kg	26 U	19 U	14 U	9.9 J	28	110	8.9 J	13	18 U	15 U	32	49

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012
			Location ID	PC-SD01	PC-SD01	PC-SD02	PC-SD02	PC-SD04	PC-SD04	PC-SD05	PC-SD05	PC-SD07	PC-SD07	PC-SD08	PC-SD08
			Sample ID	PC-SD01A	PC-SD01B	PC-SD02A	PC-SD02B	PC-SD04A	PC-SD04B	PC-SD05A	PC-SD05B	PC-SD07A	PC-SD07B	PC-SD08A	PC-SD08B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
591-78-6	2-Hexanone	E624	ug/kg	26 U	19 U	14 U	10 U	20 U	21 U	12 U	12 U	18 U	15 U	22 U	18 U
108-10-1	4-Methyl-2-pentanone	E624	ug/kg	26 U	19 U	14 U	10 U	20 U	21 U	12 U	12 U	18 U	15 U	22 U	18 U
67-64-1	Acetone	E624	ug/kg	26 U	22	19	21	81	320	23	38	21	15 U	84	140
71-43-2	Benzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
74-97-5	Bromochloromethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-27-4	Bromodichloromethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-25-2	Bromoform	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
74-83-9	Bromomethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-15-0	Carbon Disulfide	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
56-23-5	Carbon Tetrachloride	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
108-90-7	Chlorobenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	5.6 J	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-00-3	Chloroethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
67-66-3	Chloroform	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
74-87-3	Chloromethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
156-59-2	cis-1,2-Dichloroethene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	5.6 J	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
10061-01-5	cis-1,3-Dichloropropene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
110-82-7	Cyclohexane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
124-48-1	Dibromochloromethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-71-8	Dichlorodifluoromethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
100-41-4	Ethylbenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
98-82-8	Isopropylbenzene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
179601-23-1	m,p-Xylene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
79-20-9	Methyl acetate	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
1634-04-4	Methyl tert-Butyl Ether	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
108-87-2	Methylcyclohexane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-09-2	Methylene Chloride	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
95-47-6	o-Xylene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
100-42-5	Styrene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
127-18-4	Tetrachloroethene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
108-88-3	Toluene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
156-60-5	trans-1,2-Dichloroethene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
10061-02-6	trans-1,3-Dichloropropene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
79-01-6	Trichloroethene	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-69-4	Trichlorofluoromethane	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
75-01-4	Vinyl Chloride	E624	ug/kg	13 U	9.3 U	7.2 U	5.1 U	10 U	11 U	5.9 U	6.1 U	9.1 U	7.3 U	11 U	9.1 U
Semivolatile Organic Compounds															
92-52-4	1,1'-Biphenyl	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	60 J	220 U	330 U	290 U	410 U	310 U
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012
			Location ID	PC-SD01	PC-SD01	PC-SD02	PC-SD02	PC-SD04	PC-SD04	PC-SD05	PC-SD05	PC-SD07	PC-SD07	PC-SD08	PC-SD08
			Sample ID	PC-SD01A	PC-SD01B	PC-SD02A	PC-SD02B	PC-SD04A	PC-SD04B	PC-SD05A	PC-SD05B	PC-SD07A	PC-SD07B	PC-SD08A	PC-SD08B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
120-83-2	2,4-Dichlorophenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
105-67-9	2,4-Dimethylphenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
51-28-5	2,4-Dinitrophenol	E625	ug/kg	870 UJ	670 UJ	540 UJ	390 UJ	660 UJ	780 UJ	410 UJ	430 UJ	650 UJ	560 UJ	800 UJ	610 UJ
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
91-58-7	2-Chloronaphthalene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
95-57-8	2-Chlorophenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
91-57-6	2-Methylnaphthalene	E625	ug/kg	450 U	350 U	69 J	55 J	340 U	400 U	310	94 J	330 U	290 U	410 U	310 U
95-48-7	2-Methylphenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
88-74-4	2-Nitroaniline	E625	ug/kg	870 U	670 U	540 U	390 U	660 U	780 U	410 U	430 U	650 U	560 U	800 U	610 U
88-75-5	2-Nitrophenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
99-09-2	3-Nitroaniline	E625	ug/kg	870 U	670 U	540 U	390 U	660 U	780 U	410 U	430 U	650 U	560 U	800 U	610 U
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	870 UJ	670 UJ	540 UJ	390 UJ	660 UJ	780 UJ	410 UJ	430 UJ	650 UJ	560 UJ	800 UJ	610 UJ
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
106-47-8	4-Chloroaniline	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
106-44-5	4-Methylphenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
100-01-6	4-Nitroaniline	E625	ug/kg	870 U	670 U	540 U	390 U	660 U	780 U	410 U	430 U	650 U	560 U	800 U	610 U
100-02-7	4-Nitrophenol	E625	ug/kg	870 U	670 U	540 U	390 U	660 U	780 U	410 U	430 U	650 U	560 U	800 U	610 U
83-32-9	Acenaphthene	E625	ug/kg	130 J	110 J	55 J	200	340 U	400 U	380	81 J	260 J	66 J	410 U	100 J
208-96-8	Acenaphthylene	E625	ug/kg	140 J	140 J	58 J	52 J	340 U	400 U	58 J	220 U	170 J	71 J	410 U	99 J
98-86-2	Acetophenone	E625	ug/kg	140 J	97 J	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
120-12-7	Anthracene	E625	ug/kg	340 J	370	170 J	460	340 U	400 U	210 J	150 J	550	160 J	190 J	310
1912-24-9	Atrazine	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
100-52-7	Benzaldehyde	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
56-55-3	Benzo(a)anthracene	E625	ug/kg	1400	1300	590	750	220 J	400 U	450	370	2000	490	830	1300
50-32-8	Benzo(a)pyrene	E625	ug/kg	1400	1300	460	570	200 J	400 U	340	330	2100	560	610	1100
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	2000	1700	650	720	240 J	400 U	420	430	2700	630	900	1300
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	1500	1300	390	450	200 J	400 U	260	300	1800	510	450	700
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	1300	1300	360	370	210 J	400 U	400	290	1600	520	440	1200
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	9300	19000	6800	2800	340 U	1800	1600	3200	12000	7600	520	1100
85-68-7	Butylbenzylphthalate	E625	ug/kg	240 J	360	280 U	200 U	340 U	400 U	60 J	81 J	280 J	290 U	410 U	310 U
105-60-2	Caprolactam	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
86-74-8	Carbazole	E625	ug/kg	190 J	180 J	63 J	110 J	340 U	400 U	110 J	47 J	320 J	69 J	410 U	130 J
218-01-9	Chrysene	E625	ug/kg	1600	1800	630	840	230 J	400 U	510	460	2800	800	860	1500
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	430 J	420	130 J	130 J	340 U	400 U	74 J	94 J	650	150 J	140 J	230 J
132-64-9	Dibenzofuran	E625	ug/kg	450 U	79 J	280 U	120 J	340 U	400 U	220	55 J	120 J	290 U	410 U	83 J
84-66-2	Diethylphthalate	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012	10/17/2012
			Location ID	PC-SD01	PC-SD01	PC-SD02	PC-SD02	PC-SD04	PC-SD04	PC-SD05	PC-SD05	PC-SD07	PC-SD07	PC-SD08	PC-SD08
			Sample ID	PC-SD01A	PC-SD01B	PC-SD02A	PC-SD02B	PC-SD04A	PC-SD04B	PC-SD05A	PC-SD05B	PC-SD07A	PC-SD07B	PC-SD08A	PC-SD08B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
131-11-3	Dimethylphthalate	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
84-74-2	Di-n-butylphthalate	E625	ug/kg	500	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	350	410 U	370
117-84-0	Di-n-octylphthalate	E625	ug/kg	110 J	350 U	280 U	200 U	340 U	400 U	78 J	220 U	330 U	290 U	410 U	310 U
206-44-0	Fluoranthene	E625	ug/kg	2000	2300	910	1600	350	400 U	1100	640	4400	880	1500	2500
86-73-7	Fluorene	E625	ug/kg	450 U	79 J	65 J	200 J	340 U	400 U	200 J	68 J	180 J	290 U	410 U	100 J
118-74-1	Hexachlorobenzene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
87-68-3	Hexachlorobutadiene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	450 R	350 R	280 R	200 R	340 R	400 R	210 R	220 R	330 R	290 R	410 R	310 R
67-72-1	Hexachloroethane	E625	ug/kg	450 UJ	350 UJ	280 UJ	200 UJ	340 UJ	400 UJ	210 UJ	220 UJ	330 UJ	290 UJ	410 UJ	310 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	1200	1100	340	360	120 J	400 U	220	250	1500	450	400 J	660
78-59-1	Isophorone	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
91-20-3	Naphthalene	E625	ug/kg	450 U	350 U	58 J	76 J	340 U	400 U	250	220 U	95 J	290 U	410 U	84 J
98-95-3	Nitrobenzene	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
87-86-5	Pentachlorophenol	E625	ug/kg	870 UJ	670 UJ	540 UJ	390 UJ	660 U	780 U	410 U	430 UJ	650 UJ	560 UJ	800 U	610 U
85-01-8	Phenanthrene	E625	ug/kg	1200	1100	560	1800	140 J	400 U	930	390	2400	470	770	1300
108-95-2	Phenol	E625	ug/kg	450 U	350 U	280 U	200 U	340 U	400 U	210 U	220 U	330 U	290 U	410 U	310 U
129-00-0	Pyrene	E625	ug/kg	2100	2300	920	1800	340 J	400 U	930	740	3800	920	1400	2400
Total Organic Carbon															
TOC	Total Organic Carbon	EPA 415.1	mg/kg	89000	80000	58000	42000	75000	64000	30000	27000	84000 J	98000 J	94000 J	130000 J

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012
			Location ID	PC-SD09	PC-SD09	PC-SD06	PC-SD06	PC-SD11	PC-SD11	PC-SD12	PC-SD12	PC-SD27	PC-SD27	PC-SD13	PC-SD13
			Sample ID	PC-SD09A	PC-SD09B	PC-SD06A	PC-SD06B	PC-SD11A	PC-SD11B	PC-SD12A	PC-SD12B	PC-SD27A	PC-SD27B	PC-SD13A	PC-SD13B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
Grain Size Distribution															
% CLAY	% CLAY & COLLOIDS	ASTM D422-63 BIO 8.3	% by Weight		6.6 J	3.4	8.2	4.9	4.5		1.8 J	3.9	0.4	1.6	
%COARSESAND	% Coarse Sand >0.5 - 1.0 mm	ASTM D422-63 BIO 8.3	% by Weight		7.7 J	11	9.8	7.6	7.2	4.1	4.2	9.4	8.6	15	6.6
%FINE SAND	% Fine Sand >.125 - .25 mm	ASTM D422-63 BIO 8.3	% by Weight		12 J	7.4	10	7.9	9.4	8.7	9	7.3	4.2	15	9.8
%PEBBLES	% Gravel & Larger >2.0 mm	ASTM D422-63 BIO 8.3	% by Weight	16 J	20 J	29	18	1.4	2.1	0.4	0.6	1	56	11	1.7
%MEDIUM SAND	% Medium Sand >.25 - .5 mm	ASTM D422-63 BIO 8.3	% by Weight		11 J	9.8	12	6.7	7.6	5.5	6.1	6.8	6.6	13	7.2
% SILT	% SILT	ASTM D422-63 BIO 8.3	% by Weight		27 J	27	27	55	54		65 J	61	8.8	21	
%VERYCOARSESAND	% Very Coarse Sand >1 - 2 mm	ASTM D422-63 BIO 8.3	% by Weight		6.8 J	6.9	8.8	7.6	5.4	1.1	1.8	2.9	13	17	4.9
%VERYFINESAND	% Very Fine Sand >.0625 - .125 mm	ASTM D422-63 BIO 8.3	% by Weight		8.5 J	6.1	7	8.9	9.6	12	11	7.8	2.1	7.6	8.5
TOTALFINES	%Silt + % Clay/Colloids (%Total Fines)	ASTM D422-63 BIO 8.3	% by Weight							68 J					61 J
Pesticides															
72-54-8	4,4'-DDD	CPEST	ug/kg	56	77	57	47	160 J	100	76 J	110	44	2.7 J	85	260 J
72-55-9	4,4'-DDE	CPEST	ug/kg	19 J	23	47	31	35 JN	24 NJ	26 JN	44 J	37	4.8 U	49	220 J
50-29-3	4,4'-DDT	CPEST	ug/kg	10 R	11 NJ	25 J	20	110 J	87 J	56 J	92	13 J	8.2 J	120 J	120 J
309-00-2	Aldrin	CPEST	ug/kg	4.8 U	3 U	3 U	2.9 U	5.6 UJ	5 UJ	4.5 U	27 J	4.6 U	2.5 U	14 NJ	4.4 U
319-84-6	alpha-BHC	CPEST	ug/kg	3.3 J	4.7	3 U	2.9 U	5.6 UJ	5 U	4.5 U	3.1 J	4.6 U	2.5 U	3.5 U	4.4 U
5103-71-9	alpha-Chlordane	CPEST	ug/kg	4.8 U	3 U	8.3	9.3 J	39 J	11 NJ	30	23 J	6.5	2.5 U	14 NJ	20 J
319-85-7	beta-BHC	CPEST	ug/kg	6.3 R	9.6 JN	9 J	7.3 JN	29 R	15 R	8.1 R	20 JN	4.6 U	2.5 U	4.1 R	6.5 R
319-86-8	delta-BHC	CPEST	ug/kg	4.8 U	3 U	3.8 R	2.9 U	13 J	6.1 R	8.8	19 U	3.9 J	2.5 U	3.5 U	4.4 U
60-57-1	Dieldrin	CPEST	ug/kg	7.6 J	5.9 U	5.9 U	5.7 U	47 R	16 NJ	13 NJ	19 J	8.8 U	4.8 U	21 R	14 R
959-98-8	Endosulfan I	CPEST	ug/kg	4.8 U	3 U	3 U	2.9 U	5.6 UJ	5 U	4.5 U	3.8 U	4.6 U	2.5 U	3.5 U	4.4 U
33213-65-9	Endosulfan II	CPEST	ug/kg	9.3 U	5.9 U	5.9 U	5.7 U	11 UJ	9.7 U	8.7 U	7.4 U	8.8 U	4.8 U	6.7 U	8.5 U
1031-07-8	Endosulfan Sulfate	CPEST	ug/kg	9.3 U	5.9 U	5.9 U	5.7 U	87 J	25 J	31 JN	16 J	8.8 U	4.8 U	14 R	8.5 U
72-20-8	Endrin	CPEST	ug/kg	9.3 U	5.9 U	5.9 U	5.7 U	15 R	7.4 J	8.7 U	37 U	8.8 U	4.8 U	9.8 NJ	39 NJ
7421-93-4	Endrin aldehyde	CPEST	ug/kg	32	5.9 U	5.9 U	5.7 U	61 J	34	31	29 J	8.8 U	4.8 U	73	23 J
53494-70-5	Endrin Ketone	CPEST	ug/kg	9 J	6 J	6.5	7.7	45 J	26	29	28 J	8.8 U	12 J	36	28 R
58-89-9	gamma-BHC (Lindane)	CPEST	ug/kg	4.8 U	3 U	3 U	2.9 U	5.6 UJ	5 U	4.8 R	19 U	4.6 U	8.7 R	3.5 U	4.4 U
5103-74-2	gamma-Chlordane	CPEST	ug/kg	11 R	4.1 R	9.7 R	9.8 R	59 J	39 R	55 R	38 JN	7.8 R	2.8 R	51 R	17 R
76-44-8	Heptachlor	CPEST	ug/kg	4.8 U	3 U	2.1 J	1.8 J	5.6 UJ	5 U	4.5 U	7.5	4.6 U	2.5 U	3.5 U	5.6 NJ
1024-57-3	Heptachlor Epoxide	CPEST	ug/kg	5.3 J	3.7	3.8 R	2.9 U	14 JN	5 U	8.9 JN	19 U	2.5 J	2.5 U	15	21 NJ
72-43-5	Methoxychlor	CPEST	ug/kg	48 U	30 U	30 U	29 U	56 UJ	50 U	45 U	38 U	46 U	25 U	120 R	44 U
8001-35-2	Toxaphene	CPEST	ug/kg	480 U	300 U	300 U	290 U	560 UJ	500 U	450 U	380 U	460 U	250 U	350 U	440 U
Metals															
7429-90-5	Aluminum	E200.7	mg/kg	11500 J	11100 J	13100 J	9660 J	10800 J	16000 J	15500 J	15700 J	12700 J	3510 J	14000 J	44300 J
7440-36-0	Antimony	E200.7	mg/kg	13.1 UJ	11 UJ	9.5 UJ	8.8 UJ	16.8 UJ	18.9 UJ	15.4 UJ	13.5 UJ	11.9 UJ	9.6 UJ	19.3 UJ	12.5 UJ
7440-38-2	Arsenic	E200.7	mg/kg	56.4 J	53.9 J	57 J	45.3 J	102 J	145 J	128 J	123 J	143 J	25.5 J	84 J	165 J
7440-39-3	Barium	E200.7	mg/kg	204 J	395 J	791 J	606 J	346 J	519 J	585 J	549 J	674 J	590 J	358 J	958 J
7440-41-7	Beryllium	E200.7	mg/kg	1.1 UJ	0.92 UJ	0.78 J	0.071 J	1.4 U	1.6 U	1.3 U	1.1 U	0.99 U	0.8 U	1.6 U	0.15 J
7440-43-9	Cadmium	E200.7	mg/kg	3.1 J	3.4 J	6.5 J	5.4 J	6.6 J	10.7 J	7.9 J	10.6 J	8.7 J	3.7 J	6.8 J	53.5 J
7440-70-2	Calcium	E200.7	mg/kg	12900 J	4790 J	39400 J	27800 J	5100 J	8880 J	8930 J	11900 J	64100 J	6580 J	8470 J	22700 J
7440-47-3	Chromium	E200.7	mg/kg	89.1 J	83.8 J	59.1 J	59.4 J	129 J	196 J	167 J	184 J	128 J	82.4 J	140 J	372 J
7440-48-4	Cobalt	E200.7	mg/kg	12.9 J	12.6 J	15.6 J	11.8 J	13.3 J	21.9 J	18.9 J	25 J	14.9 J	9.2 J	13.9 J	49.9 J

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012
			Location ID	PC-SD09	PC-SD09	PC-SD06	PC-SD06	PC-SD11	PC-SD11	PC-SD12	PC-SD12	PC-SD27	PC-SD27	PC-SD13	PC-SD13
			Sample ID	PC-SD09A	PC-SD09B	PC-SD06A	PC-SD06B	PC-SD11A	PC-SD11B	PC-SD12A	PC-SD12B	PC-SD27A	PC-SD27B	PC-SD13A	PC-SD13B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
7440-50-8	Copper	E200.7	mg/kg	311 J	350 J	1360 J	604 J	631 J	1010 J	857 J	945 J	516 J	204 J	484 J	1880 J
7439-89-6	Iron	E200.7	mg/kg	46700 J	36500 J	115000 J	67500 J	39000 J	65600 J	62600 J	59600 J	132000 J	38100 J	34000 J	82200 J
7439-92-1	Lead	E200.7	mg/kg	454 J	525 J	1000 J	1460 J	651 J	990 J	738 J	939 J	1050 J	1420 J	565 J	2430 J
7439-95-4	Magnesium	E200.7	mg/kg	5390 J	2880 J	17200 J	3990 J	5080 J	7110 J	8170 J	7610 J	5530 J	867 J	4640 J	8660 J
7439-96-5	Manganese	E200.7	mg/kg	274 J	222 J	1100 J	837 J	186 J	273 J	319 J	323 J	2720 J	356 J	150 J	720 J
7440-02-0	Nickel	E200.7	mg/kg	76.4 J	75.5 J	91.5 J	78 J	83.4 J	145 J	115 J	128 J	71.1 J	48.4 J	95.1 J	469 J
9/7/7440	Potassium	E200.7	mg/kg	1650 J	1090 J	2630 J	875 J	1340 J	1730 J	2180 J	1720 J	1100 J	330 J	982 J	1800 J
7782-49-2	Selenium	E200.7	mg/kg	7.6 UJ	6.4 UJ	8.5 J	8.5 J	9.8 U	11 U	9.1 J	7.9 U	10.4 J	5.6 U	11.3 U	10.4 J
7440-22-4	Silver	E200.7	mg/kg	8.8 J	9.9 J	14.4 J	19.6 J	31.6 J	47.6 J	29.8 J	36.1 J	31.9 J	4.6 J	50.4 J	211 J
7440-23-5	Sodium	E200.7	mg/kg	6730 J	1940 J	1400 J	1420 J	10800 J	10800 J	9000 J	6220 J	2500 J	853 J	8920 J	5580 J
7440-28-0	Thallium	E200.7	mg/kg	5.4 UJ	4.6 UJ	4 U	3.7 U	7 U	7.9 U	6.4 U	5.6 U	5 U	4 U	8 U	5.2 U
7440-62-2	Vanadium	E200.7	mg/kg	38.2 J	39.8 J	48.2 J	47.5 J	55.4 J	83 J	89 J	86.1 J	71.5 J	23.9 J	46.4 J	114 J
7440-66-6	Zinc	E200.7	mg/kg	971 J	592 J	1470 J	1360 J	1070 J	1890 J	2050 J	2110 J	1240 J	878 J	1290 J	3980 J
7439-97-6	Mercury	E245.5	mg/kg	66.4 J	42.7 J	3.1 J	16.5 J	200 J	213 J	86 J	174 J	28.7 J	3.3 J	256 J	924 J
PCB Aroclors															
12674-11-2	Aroclor 1016	E608	ug/kg	92 U	60 U	59 U	56 U	110 UJ	98 U	85 U	74 U	88 U	48 U	67 U	85 U
11104-28-2	Aroclor 1221	E608	ug/kg	92 U	60 U	59 U	56 U	110 UJ	98 U	85 U	74 U	88 U	48 U	67 U	85 U
11141-16-5	Aroclor 1232	E608	ug/kg	92 U	60 U	59 U	56 U	110 UJ	98 U	85 U	74 U	88 U	48 U	67 U	85 U
53469-21-9	Aroclor 1242	E608	ug/kg	170 J	60 U	410 JN	550 J	480 JN	890	470 NJ	670 J	140 NJ	48 U	650 NJ	2800
12672-29-6	Aroclor 1248	E608	ug/kg	92 U	60 U	59 U	56 U	110 UJ	98 U	85 U	74 U	88 U	48 U	67 U	85 U
11097-69-1	Aroclor 1254	E608	ug/kg	410 J	250 J	230 JN	360 J	110 UJ	600 NJ	85 U	74 U	370 J	48 U	600 NJ	4600 J
11096-82-5	Aroclor 1260	E608	ug/kg	92 U	60 U	59 U	56 U	940 J	500 NJ	690 J	810 J	670	48 U	440 R	3800 J
37324-23-5	Aroclor 1262	E608	ug/kg	92 U	60 U	59 U	56 U	110 UJ	98 U	85 U	74 U	88 U	48 U	67 U	85 U
11100-14-4	Aroclor 1268	E608	ug/kg	92 U	60 U	59 U	56 U	110 UJ	98 U	85 U	74 U	88 U	48 U	67 U	85 U
Volatile Organic Compounds															
71-55-6	1,1,1-Trichloroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
79-34-5	1,1,2,2-Tetrachloroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
79-00-5	1,1,2-Trichloroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-34-3	1,1-Dichloroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-35-4	1,1-Dichloroethene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
87-61-6	1,2,3-Trichlorobenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
120-82-1	1,2,4-Trichlorobenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
96-12-8	1,2-Dibromo-3-chloropropane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
106-93-4	1,2-Dibromoethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
95-50-1	1,2-Dichlorobenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
107-06-2	1,2-Dichloroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
78-87-5	1,2-Dichloropropane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
541-73-1	1,3-Dichlorobenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
106-46-7	1,4-Dichlorobenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
123-91-1	1,4-Dioxane	E624	ug/kg	250 R	160 R	190 R	240 R	400 R	410 R	310 R	240 R	280 R	160 R	230 R	270 R
78-93-3	2-Butanone	E624	ug/kg	26	19	23	20 J	160 J	41 U	80	65	21 J	39	23 U	33

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012
			Location ID	PC-SD09	PC-SD09	PC-SD06	PC-SD06	PC-SD11	PC-SD11	PC-SD12	PC-SD12	PC-SD27	PC-SD27	PC-SD13	PC-SD13
			Sample ID	PC-SD09A	PC-SD09B	PC-SD06A	PC-SD06B	PC-SD11A	PC-SD11B	PC-SD12A	PC-SD12B	PC-SD27A	PC-SD27B	PC-SD13A	PC-SD13B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
591-78-6	2-Hexanone	E624	ug/kg	25 U	16 U	19 U	24 U	40 UJ	41 U	31 U	24 U	28 U	16 U	23 U	27 U
108-10-1	4-Methyl-2-pentanone	E624	ug/kg	25 U	16 U	19 U	24 U	40 UJ	41 U	31 U	24 U	28 U	16 U	23 U	27 U
67-64-1	Acetone	E624	ug/kg	81	65	43	60	380 J	180	200	190	28 U	120	23 U	89
71-43-2	Benzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
74-97-5	Bromochloromethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-27-4	Bromodichloromethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-25-2	Bromoform	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
74-83-9	Bromomethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-15-0	Carbon Disulfide	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	6.5 J	14 U	7.8 U	12 J	14 U
56-23-5	Carbon Tetrachloride	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
108-90-7	Chlorobenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	10 J	14 U	7.8 U	5.6 J	9.8 J
75-00-3	Chloroethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
67-66-3	Chloroform	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
74-87-3	Chloromethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
156-59-2	cis-1,2-Dichloroethene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
10061-01-5	cis-1,3-Dichloropropene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
110-82-7	Cyclohexane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
124-48-1	Dibromochloromethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-71-8	Dichlorodifluoromethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
100-41-4	Ethylbenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
98-82-8	Isopropylbenzene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
179601-23-1	m,p-Xylene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
79-20-9	Methyl acetate	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	95 J	15 U	12 U	14 U	7.8 U	12 U	14 U
1634-04-4	Methyl tert-Butyl Ether	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
108-87-2	Methylcyclohexane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-09-2	Methylene Chloride	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
95-47-6	o-Xylene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
100-42-5	Styrene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
127-18-4	Tetrachloroethene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
108-88-3	Toluene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
156-60-5	trans-1,2-Dichloroethene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
10061-02-6	trans-1,3-Dichloropropene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
79-01-6	Trichloroethene	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-69-4	Trichlorofluoromethane	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
75-01-4	Vinyl Chloride	E624	ug/kg	13 U	8.1 U	9.5 U	12 U	20 UJ	21 U	15 U	12 U	14 U	7.8 U	12 U	14 U
Semivolatile Organic Compounds															
92-52-4	1,1'-Biphenyl	E625	ug/kg	480 U	300 U	300 U	71 J	560 UJ	510 U	450 U	380 U	460 U	250 U	310 J	440 U
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012
			Location ID	PC-SD09	PC-SD09	PC-SD06	PC-SD06	PC-SD11	PC-SD11	PC-SD12	PC-SD12	PC-SD27	PC-SD27	PC-SD13	PC-SD13
			Sample ID	PC-SD09A	PC-SD09B	PC-SD06A	PC-SD06B	PC-SD11A	PC-SD11B	PC-SD12A	PC-SD12B	PC-SD27A	PC-SD27B	PC-SD13A	PC-SD13B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
120-83-2	2,4-Dichlorophenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
105-67-9	2,4-Dimethylphenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
51-28-5	2,4-Dinitrophenol	E625	ug/kg	930 UJ	590 UJ	590 UJ	570 UJ	1100 UJ	980 UJ	870 UJ	740 UJ	890 UJ	490 U	670 UJ	850 UJ
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
91-58-7	2-Chloronaphthalene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
95-57-8	2-Chlorophenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
91-57-6	2-Methylnaphthalene	E625	ug/kg	480 U	120 J	74 J	280 J	230 J	110 J	150 J	150 J	110 J	250 U	1200	190 J
95-48-7	2-Methylphenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
88-74-4	2-Nitroaniline	E625	ug/kg	930 U	590 U	590 U	570 U	1100 UJ	980 U	870 U	740 U	890 U	490 U	670 U	850 U
88-75-5	2-Nitrophenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
99-09-2	3-Nitroaniline	E625	ug/kg	930 U	590 U	590 U	570 U	1100 UJ	980 U	870 U	740 U	890 U	490 U	670 U	850 U
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	930 UJ	590 UJ	590 UJ	570 UJ	1100 UJ	980 UJ	870 UJ	740 UJ	890 UJ	490 UJ	670 UJ	850 UJ
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
106-47-8	4-Chloroaniline	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
106-44-5	4-Methylphenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
100-01-6	4-Nitroaniline	E625	ug/kg	930 U	590 U	590 U	570 U	1100 UJ	980 U	870 U	740 U	890 U	490 U	670 U	850 U
100-02-7	4-Nitrophenol	E625	ug/kg	930 U	590 U	590 U	570 U	1100 UJ	980 U	870 U	740 U	890 U	490 U	670 U	850 U
83-32-9	Acenaphthene	E625	ug/kg	110 J	210 J	120 J	640	770 J	530	510	410	160 J	250 J	5500 J	420 J
208-96-8	Acenaphthylene	E625	ug/kg	170 J	370	160 J	370	290 J	120 J	290 J	210 J	210 J	250 U	320 J	220 J
98-86-2	Acetophenone	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	210 J	95 J	460 U	250 U	350 U	440 U
120-12-7	Anthracene	E625	ug/kg	540	1400	260 J	1200	1500 J	910	5100	3300	360 J	430	6100 J	1100
1912-24-9	Atrazine	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
100-52-7	Benzaldehyde	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	180 J	450 U	380 U	460 U	250 U	350 U	440 U
56-55-3	Benzo(a)anthracene	E625	ug/kg	1900	4600 J	710	2400	4100 J	3200 J	3800 J	2300 J	990	1900	16000 J	1600
50-32-8	Benzo(a)pyrene	E625	ug/kg	1300	3900	660	2100	5100 J	3200	5800 J	3200	910	1800	17000 J	3200 J
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	1800	5700	900	2700	6900 J	4400	4600 J	3900	1600	2300	13000 J	3000 J
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	860	2200	520	1600	3400 J	1900	2600 J	1800	450 J	920	2900 J	1000 J
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	1200	4200	700	1800	3600 J	2900	3900 J	2300	630	1300	5200 J	2500 J
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	920	1300	1500	5000	90000 J	150000	89000	71000	15000	250 U	500000	670000
85-68-7	Butylbenzylphthalate	E625	ug/kg	480 U	300 U	300 U	290 U	710 J	490 J	670	410	460 U	250 U	350 U	440 U
105-60-2	Caprolactam	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
86-74-8	Carbazole	E625	ug/kg	140 J	370	65 J	530	830 J	630	760	550	120 J	270	4400	450
218-01-9	Chrysene	E625	ug/kg	2000	5900	960	2900	7600 J	5100 J	5900 J	5100 J	1300	2000	14000 J	6400
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	270 J	1100	170 J	610	1300 J	670	95 J	780	220 J	400	2300 J	580 J
132-64-9	Dibenzofuran	E625	ug/kg	480 U	120 J	110 J	350	320 J	240 J	300 J	190 J	150 J	110 J	2600	210 J
84-66-2	Diethylphthalate	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/17/2012	10/17/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/23/2012	10/23/2012
			Location ID	PC-SD09	PC-SD09	PC-SD06	PC-SD06	PC-SD11	PC-SD11	PC-SD12	PC-SD12	PC-SD27	PC-SD27	PC-SD13	PC-SD13
			Sample ID	PC-SD09A	PC-SD09B	PC-SD06A	PC-SD06B	PC-SD11A	PC-SD11B	PC-SD12A	PC-SD12B	PC-SD27A	PC-SD27B	PC-SD13A	PC-SD13B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
131-11-3	Dimethylphthalate	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
84-74-2	Di-n-butylphthalate	E625	ug/kg	500	350	370	420	1400 J	1300 U	840	380 U	1200 U	650 U	1400 U	1200 U
117-84-0	Di-n-octylphthalate	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
206-44-0	Fluoranthene	E625	ug/kg	3800	10000	1500	5900	11000 J	7200 J	11000	77 J	2100	3600	33000 J	9400 J
86-73-7	Fluorene	E625	ug/kg	160 J	230 J	100 J	640	590 J	380 J	430 J	310 J	140 J	220 J	3800	400 J
118-74-1	Hexachlorobenzene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
87-68-3	Hexachlorobutadiene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	480 R	300 R	300 R	290 R	560 R	510 R	450 R	380 R	460 R	250 R	350 R	440 R
67-72-1	Hexachloroethane	E625	ug/kg	480 UJ	300 UJ	300 UJ	290 UJ	560 UJ	510 UJ	450 UJ	380 UJ	460 UJ	250 U	350 UJ	440 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	730	2200	440	1400	3200 J	1700	2400 J	1700	570	980	4200 J	1000 J
78-59-1	Isophorone	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
91-20-3	Naphthalene	E625	ug/kg	480 U	110 J	140 J	340	330 J	170 J	240 J	180 J	100 J	100 J	3100	260 J
98-95-3	Nitrobenzene	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
87-86-5	Pentachlorophenol	E625	ug/kg	930 U	590 UJ	590 U	570 UJ	1100 UJ	980 U	870 UJ	740 UJ	890 U	490 U	670 U	850 U
85-01-8	Phenanthrene	E625	ug/kg	1600	3100	600	4400	6600 J	4300	5200	3400	920	2600	35000 J	3500
108-95-2	Phenol	E625	ug/kg	480 U	300 U	300 U	290 U	560 UJ	510 U	450 U	380 U	460 U	250 U	350 U	440 U
129-00-0	Pyrene	E625	ug/kg	3400	9300	1200	5200	8000 J	5700 J	6900 J	4700 J	2000	2900	20000 J	6400
Total Organic Carbon															
TOC	Total Organic Carbon	EPA 415.1	mg/kg	87000 J	130000 J	130000 J	66000	190000	130000	140000	130000	110000	110000	130000	120000

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012
			Location ID	PC-SD14	PC-SD14	PC-SD15	PC-SD15	PC-SD16	PC-SD16	PC-SD17	PC-SD17	PC-SD18	PC-SD18	PC-SD21	PC-SD21
			Sample ID	PC-SD14A	PC-SD14B	PC-SD15A	PC-SD15B	PC-SD16A	PC-SD16B	PC-SD17A	PC-SD17B	PC-SD18A	PC-SD18B	PC-SD21A	PC-SD21B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
Grain Size Distribution															
% CLAY	% CLAY & COLLOIDS	ASTM D422-63 BIO 8.3	% by Weight	1.2 J		6.8 J		1.8		1.1	0.8	2.9	3.1	3.1 J	
%COARSESAND	% Coarse Sand >0.5 - 1.0 mm	ASTM D422-63 BIO 8.3	% by Weight	9.4	11	9.2	5.9	7.6	7.6	3.9	6	9.9	7.8	3.6	3.8
%FINE SAND	% Fine Sand >.125 - .25 mm	ASTM D422-63 BIO 8.3	% by Weight	11	7.8	12	7.8	7.7	6.3	11	12	12	11	8	8.3
%PEBBLES	% Gravel & Larger >2.0 mm	ASTM D422-63 BIO 8.3	% by Weight	18	7.1	9.3	2.1	21	4.2	0.6	8.6	19	32	0.3	0.3
%MEDIUM SAND	% Medium Sand >.25 - .5 mm	ASTM D422-63 BIO 8.3	% by Weight	10	9.6	11	6.5	7.7	4.9	6.1	9.4	13	11	4.9	4.8
% SILT	% SILT	ASTM D422-63 BIO 8.3	% by Weight	36 J		34 J		42		66	50	28	23	66 J	
%VERYCOARSESAND	% Very Coarse Sand >1 - 2 mm	ASTM D422-63 BIO 8.3	% by Weight	6.5	10	6.9	3	4.8	4.5	1.6	4.4	8.6	6.8	2.7	1.9
%VERYFINESAND	% Very Fine Sand >.0625 - .125 mm	ASTM D422-63 BIO 8.3	% by Weight	7.4	5.8	10	9.3	7.6	7.8	9.7	8.3	7.5	6.3	11	12
TOTALFINES	%Silt + % Clay/Colloids (%Total Fines)	ASTM D422-63 BIO 8.3	% by Weight		49		65 J		65 J						69 J
Pesticides															
72-54-8	4,4'-DDD	CPEST	ug/kg	360	430	210	110 J	580	430	100	37 NJ	190	65	15 NJ	9.4 NJ
72-55-9	4,4'-DDE	CPEST	ug/kg	330 J	260 J	48	55 J	75 J	110 J	48 NJ	14 R	64 NJ	35 R	8.5 U	9.2 U
50-29-3	4,4'-DDT	CPEST	ug/kg	160	430	79 J	24 R	280	220	98	160	350	72	22	20
309-00-2	Aldrin	CPEST	ug/kg	9.3 R	14 R	5.4 U	5.1 UJ	4 U	4.5 U	4.1 U	4.5 U	3.3 U	3 U	7 R	4.9 R
319-84-6	alpha-BHC	CPEST	ug/kg	4 NJ	3.9 U	5.4 U	5.1 UJ	3.9 J	4.1 J	3 J	4.5 U	3.6	1.8 J	4.4 U	4.8 U
5103-71-9	alpha-Chlordane	CPEST	ug/kg	18 NJ	47 NJ	11 NJ	18 J	19 NJ	30 R	27 J	39 NJ	9.1 R	4.3 NJ	19 NJ	12
319-85-7	beta-BHC	CPEST	ug/kg	5.8 R	12 NJ	14 R	8.6 R	26	21 J	9.7 R	13 R	18 NJ	9.4	4.7 R	6.2 R
319-86-8	delta-BHC	CPEST	ug/kg	3.9 U	3.9 U	5.4 U	5.1 UJ	4 U	4.5 U	4.1 U	4.5 U	3.3 U	3 U	4.4 U	4.8 U
60-57-1	Dieldrin	CPEST	ug/kg	54 J	75 NJ	25	15 NJ	39 J	47 NJ	50 J	25 R	6.3 U	7.6 R	9 R	9.2 U
959-98-8	Endosulfan I	CPEST	ug/kg	3.9 U	3.9 U	5.4 U	5.1 UJ	4.2 R	4.5 U	4.1 U	4.5 U	5.6	3 U	4.4 U	4.8 U
33213-65-9	Endosulfan II	CPEST	ug/kg	7.6 U	7.5 U	11 U	9.9 UJ	7.8 U	8.7 U	7.9 U	8.7 U	6.3 U	5.8 U	8.5 U	9.2 U
1031-07-8	Endosulfan Sulfate	CPEST	ug/kg	22 J	11 R	49 NJ	9.9 UJ	12 R	22 J	18 J	11 R	6.3 U	5.8 U	9 R	9.2 U
72-20-8	Endrin	CPEST	ug/kg	55	85 NJ	27 J	7.3 J	24 R	48 NJ	25 NJ	32 R	47 R	20 R	8.5 U	9.2 U
7421-93-4	Endrin aldehyde	CPEST	ug/kg	21	46 J	24	29 J	17 J	27 J	9.4 R	17 NJ	49	9.8	16	21
53494-70-5	Endrin Ketone	CPEST	ug/kg	35 NJ	54 NJ	23 NJ	17 R	29 J	40 NJ	18 R	18 R	42 R	19 J	12 NJ	14
58-89-9	gamma-BHC (Lindane)	CPEST	ug/kg	3.9 U	3.9 U	5.4 U	5.1 UJ	4 U	4.5 U	4.1 U	4.5 U	3.3 U	3 U	4.4 U	4.8 U
5103-74-2	gamma-Chlordane	CPEST	ug/kg	8 R	32 R	67 R	75 R	9.6 R	91 R	27 R	17 R	51 R	30 R	41 R	34 R
76-44-8	Heptachlor	CPEST	ug/kg	4.9 NJ	12 NJ	5.4 R	5.1 UJ	4 U	8 R	5.2 R	10 NJ	11 R	6.3 NJ	4.4 U	4.8 U
1024-57-3	Heptachlor Epoxide	CPEST	ug/kg	20 NJ	14 R	5.4 U	7.1 R	17 R	31 R	10 R	8.3 R	26 R	20 R	4.4 U	4.8 U
72-43-5	Methoxychlor	CPEST	ug/kg	43	36 J	54 U	51 UJ	40 U	38 J	41 U	45 U	50	30 U	44 U	48 U
8001-35-2	Toxaphene	CPEST	ug/kg	390 U	390 U	540 U	510 UJ	400 U	450 U	410 U	450 U	330 U	300 U	440 U	480 U
Metals															
7429-90-5	Aluminum	E200.7	mg/kg	32500 J	62000 J	11800 J	13600 J	22500 J	34800 J	28400 J	31400 J	14900 J	15800	6770 J	12200 J
7440-36-0	Antimony	E200.7	mg/kg	13.3 UJ	12.2 UJ	14.3 UJ	19.2 UJ	14.7 UJ	16.2 UJ	13.4 UJ	10.8 UJ	15 UJ	8.2 UJ	5 UJ	12.8 UJ
7440-38-2	Arsenic	E200.7	mg/kg	138 J	168 J	80.1 J	83.2 J	160 J	235 J	136 J	136 J	97.7 J	120 J	73 J	118 J
7440-39-3	Barium	E200.7	mg/kg	786 J	427 J	1320 J	471 J	703 J	1000 J	788 J	575 J	394 J	534	172 J	335 J
7440-41-7	Beryllium	E200.7	mg/kg	0.096 J	0.28 J	1.2 U	1.6 U	0.2 J	0.24 J	0.18 J	0.12 J	0.14 J	0.33 J	0.41 U	1.1 U
7440-43-9	Cadmium	E200.7	mg/kg	34.2 J	70.4 J	8.4 J	11.6 J	17.1 J	30.9 J	25.4 J	33.7 J	14.6 J	10.8 J	2.6 J	6.3 J
7440-70-2	Calcium	E200.7	mg/kg	12800 J	22900 J	11100 J	19200 J	14200 J	19600 J	17700 J	24200 J	10900 J	9690	11600 J	22900 J
7440-47-3	Chromium	E200.7	mg/kg	280 J	274 R	162 R	199 J	490 J	621 J	269 R	223 R	294 R	264	52.1 R	98.5 J
7440-48-4	Cobalt	E200.7	mg/kg	40.2 J	53.3 J	19.3 J	19.1 J	22.3 J	33.1 J	62.5 J	67.8 J	17.7 J	29.2	9.8 J	18.4 J

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012
			Location ID	PC-SD14	PC-SD14	PC-SD15	PC-SD15	PC-SD16	PC-SD16	PC-SD17	PC-SD17	PC-SD18	PC-SD18	PC-SD21	PC-SD21
			Sample ID	PC-SD14A	PC-SD14B	PC-SD15A	PC-SD15B	PC-SD16A	PC-SD16B	PC-SD17A	PC-SD17B	PC-SD18A	PC-SD18B	PC-SD21A	PC-SD21B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
7440-50-8	Copper	E200.7	mg/kg	1220 J	1630 J	607 J	839 J	1030 J	1380 J	1120 J	985 J	536 J	524	250 J	469 J
7439-89-6	Iron	E200.7	mg/kg	72200 J	80800 J	45500 J	59300 J	53300 J	71800 J	41300 J	47600 J	24200 J	27700	29700 J	48800 J
7439-92-1	Lead	E200.7	mg/kg	2700 J	1950 J	656 J	898 J	1870 J	2590 J	1810 J	2070 J	1230 J	1180 J	303 J	625 J
7439-95-4	Magnesium	E200.7	mg/kg	6640 J	4590 J	5930 J	7270 J	6590 J	7330 J	5220 J	4850 J	3510 J	3170	3940 J	6920 J
7439-96-5	Manganese	E200.7	mg/kg	498 J	1080 J	232 J	348 J	456 J	517 J	406 J	447 J	232 J	307 J	189 J	426 J
7440-02-0	Nickel	E200.7	mg/kg	297 J	609 J	123 J	119 J	168 J	250 J	190 J	174 J	65.4 J	75.2	36.8 J	67.4 J
9/7/7440	Potassium	E200.7	mg/kg	1380 J	1020 U	1350 J	1600 U	1790 J	1680 J	1170 J	970 J	1250 U	1150	967 J	1670 J
7782-49-2	Selenium	E200.7	mg/kg	8.6 J	7.1 U	8.4 U	11.2 U	8.6 U	9.4 U	11.3 J	6.3 U	8.8 U	4.8 U	2.9 U	7.4 U
7440-22-4	Silver	E200.7	mg/kg	138 J	248 J	45.8 J	33.4 J	56.9 J	137 J	150 J	230 J	45.3 J	43.1	6.7 J	9.8 J
7440-23-5	Sodium	E200.7	mg/kg	5780 J	4190 J	11600 J	7530 J	4310 J	2900 J	1870 J	2340 J	6750 J	1390	1130 J	1510 J
7440-28-0	Thallium	E200.7	mg/kg	5.5 U	5.1 U	6 U	8 U	6.1 U	6.7 U	5.6 U	4.5 U	6.3 U	3.4 U	2.1 U	5.3 U
7440-62-2	Vanadium	E200.7	mg/kg	83.4 J	91.4 J	62.4 J	80.8 J	108 J	117 J	72.8 J	65.4 J	45.6 J	47.9	37.3 J	68.3 J
7440-66-6	Zinc	E200.7	mg/kg	3050 J	4310 J	1260 J	1730 J	2790 J	3170 J	2130 J	1860 J	1110 J	1060	933 J	1730 J
7439-97-6	Mercury	E245.5	mg/kg	694 J	1290 J	235 J	124 J	79.7 J	298 J	359 J	855 J	254 J	161 J	22.2 J	53.4 J
PCB Aroclors															
12674-11-2	Aroclor 1016	E608	ug/kg	77 U	76 U	110 U	98 U	78 U	86 U	80 U	88 U	64 U	59 U	84 U	92 U
11104-28-2	Aroclor 1221	E608	ug/kg	77 U	76 U	110 U	98 U	78 U	86 U	80 U	88 U	64 U	59 U	84 U	92 U
11141-16-5	Aroclor 1232	E608	ug/kg	77 U	76 U	110 U	98 U	78 U	86 U	80 U	88 U	64 U	59 U	84 U	92 U
53469-21-9	Aroclor 1242	E608	ug/kg	1600	3200	1000 NJ	1000 J	1200 J	2600	1900 NJ	3100 J	3000 J	2300 J	920	1500 J
12672-29-6	Aroclor 1248	E608	ug/kg	77 U	76 U	110 U	98 U	78 U	86 U	80 U	88 U	64 U	59 U	84 U	92 U
11097-69-1	Aroclor 1254	E608	ug/kg	4100 J	5300 J	580 J	670 NJ	850 J	3600	1500 J	1500 NJ	3000 J	3900 J	330 NJ	390 NJ
11096-82-5	Aroclor 1260	E608	ug/kg	1400 NJ	8200	460 NJ	830 J	1600	1700 J	2400	3000	3100	3000	540 J	370 NJ
37324-23-5	Aroclor 1262	E608	ug/kg	77 U	76 U	110 U	98 U	78 U	86 U	80 U	88 U	64 U	59 U	84 U	92 U
11100-14-4	Aroclor 1268	E608	ug/kg	77 U	76 U	110 U	98 U	78 U	86 U	80 U	88 U	64 U	59 U	84 U	92 U
Volatile Organic Compounds															
71-55-6	1,1,1-Trichloroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
79-34-5	1,1,2,2-Tetrachloroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
79-00-5	1,1,2-Trichloroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-34-3	1,1-Dichloroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-35-4	1,1-Dichloroethene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
87-61-6	1,2,3-Trichlorobenzene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
120-82-1	1,2,4-Trichlorobenzene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
96-12-8	1,2-Dibromo-3-chloropropane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
106-93-4	1,2-Dibromoethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
95-50-1	1,2-Dichlorobenzene	E624	ug/kg	15 U	9.5 J	21 U	17 U	13 U	15 U	8.5 J	17 U	13 U	9.5 U	12 U	16 U
107-06-2	1,2-Dichloroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
78-87-5	1,2-Dichloropropane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
541-73-1	1,3-Dichlorobenzene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
106-46-7	1,4-Dichlorobenzene	E624	ug/kg	15 U	11 J	21 U	17 U	13 U	15 U	6.6 J	17 U	13 U	9.5 U	12 U	16 U
123-91-1	1,4-Dioxane	E624	ug/kg	310 R	280 R	420 R	340 R	270 R	310 R	280 R	340 R	260 R	190 R	250 R	320 R
78-93-3	2-Butanone	E624	ug/kg	49	88	42 J	42	17 J	27 J	59	54	18 J	20	25 U	40

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012
			Location ID	PC-SD14	PC-SD14	PC-SD15	PC-SD15	PC-SD16	PC-SD16	PC-SD17	PC-SD17	PC-SD18	PC-SD18	PC-SD21	PC-SD21
			Sample ID	PC-SD14A	PC-SD14B	PC-SD15A	PC-SD15B	PC-SD16A	PC-SD16B	PC-SD17A	PC-SD17B	PC-SD18A	PC-SD18B	PC-SD21A	PC-SD21B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
591-78-6	2-Hexanone	E624	ug/kg	31 U	28 U	42 U	34 U	27 U	31 U	28 U	34 U	26 U	19 U	25 U	32 U
108-10-1	4-Methyl-2-pentanone	E624	ug/kg	31 U	28 U	42 U	34 U	27 U	31 U	28 U	34 U	26 U	19 U	25 U	32 U
67-64-1	Acetone	E624	ug/kg	130	110	120	120	67	90	190	170	26 U	57	25 U	110
71-43-2	Benzene	E624	ug/kg	7.1 J	72	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
74-97-5	Bromochloromethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-27-4	Bromodichloromethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-25-2	Bromoform	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
74-83-9	Bromomethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-15-0	Carbon Disulfide	E624	ug/kg	15 U	14 U	12 J	7.7 J	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
56-23-5	Carbon Tetrachloride	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
108-90-7	Chlorobenzene	E624	ug/kg	15 J	14	20 J	15 J	13 U	15 U	61	17 U	13 U	9.5 U	12 U	16 U
75-00-3	Chloroethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
67-66-3	Chloroform	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
74-87-3	Chloromethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
156-59-2	cis-1,2-Dichloroethene	E624	ug/kg	6.7 J	10 J	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
10061-01-5	cis-1,3-Dichloropropene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
110-82-7	Cyclohexane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
124-48-1	Dibromochloromethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-71-8	Dichlorodifluoromethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
100-41-4	Ethylbenzene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
98-82-8	Isopropylbenzene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
179601-23-1	m,p-Xylene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
79-20-9	Methyl acetate	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
1634-04-4	Methyl tert-Butyl Ether	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
108-87-2	Methylcyclohexane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-09-2	Methylene Chloride	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	8 J	5.2 J	12 U	18
95-47-6	o-Xylene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
100-42-5	Styrene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
127-18-4	Tetrachloroethene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	9.8 J	9.5 U	12 U	16 U
108-88-3	Toluene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
156-60-5	trans-1,2-Dichloroethene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
10061-02-6	trans-1,3-Dichloropropene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
79-01-6	Trichloroethene	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-69-4	Trichlorofluoromethane	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
75-01-4	Vinyl Chloride	E624	ug/kg	15 U	14 U	21 U	17 U	13 U	15 U	14 U	17 U	13 U	9.5 U	12 U	16 U
Semivolatile Organic Compounds															
92-52-4	1,1'-Biphenyl	E625	ug/kg	93 J	81 J	550 U	510 U	400 U	450 UJ	410 U	450 U	330 U	300 U	440 U	470 U
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012
			Location ID	PC-SD14	PC-SD14	PC-SD15	PC-SD15	PC-SD16	PC-SD16	PC-SD17	PC-SD17	PC-SD18	PC-SD18	PC-SD21	PC-SD21
			Sample ID	PC-SD14A	PC-SD14B	PC-SD15A	PC-SD15B	PC-SD16A	PC-SD16B	PC-SD17A	PC-SD17B	PC-SD18A	PC-SD18B	PC-SD21A	PC-SD21B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
120-83-2	2,4-Dichlorophenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
105-67-9	2,4-Dimethylphenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
51-28-5	2,4-Dinitrophenol	E625	ug/kg	760 UJ	750 UJ	1100 UJ	1000 UJ	770 UJ	870 UJ	800 UJ	870 UJ	640 UJ	590 UJ	850 UJ	920 UJ
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
91-58-7	2-Chloronaphthalene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
95-57-8	2-Chlorophenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
91-57-6	2-Methylnaphthalene	E625	ug/kg	180 J	97 J	190 J	140 J	140 J	260 J	210 J	230 J	190 J	120 J	440 U	120 J
95-48-7	2-Methylphenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
88-74-4	2-Nitroaniline	E625	ug/kg	760 U	750 U	1100 U	1000 U	770 U	870 U	800 U	870 U	640 U	590 U	850 U	920 U
88-75-5	2-Nitrophenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
99-09-2	3-Nitroaniline	E625	ug/kg	760 U	750 U	1100 U	1000 U	770 U	870 U	800 U	870 U	640 U	590 U	850 U	920 U
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	760 UJ	750 UJ	1100 UJ	1000 UJ	770 UJ	870 UJ	800 UJ	870 UJ	640 UJ	590 UJ	850 UJ	920 UJ
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 UJ	410 U	450 U	330 U	300 U	440 U	470 U
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
106-47-8	4-Chloroaniline	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 UJ	410 U	450 U	330 U	300 U	440 U	470 U
106-44-5	4-Methylphenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
100-01-6	4-Nitroaniline	E625	ug/kg	760 U	750 U	1100 U	1000 U	770 U	870 U	800 U	870 U	640 U	590 U	850 U	920 U
100-02-7	4-Nitrophenol	E625	ug/kg	760 U	750 U	1100 U	1000 U	770 U	870 U	800 U	870 U	640 U	590 U	850 U	920 U
83-32-9	Acenaphthene	E625	ug/kg	550	180 J	700	510 U	230 J	450 J	230 J	590	830	250 J	300 J	370 J
208-96-8	Acenaphthylene	E625	ug/kg	170 J	150 J	260 J	200 J	190 J	200 J	270 J	230 J	150 J	80 J	100 J	130 J
98-86-2	Acetophenone	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
120-12-7	Anthracene	E625	ug/kg	1100	870	1800	1000	1100	1500	1100	2800	1500	590	700	920
1912-24-9	Atrazine	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
100-52-7	Benzaldehyde	E625	ug/kg	390 U	720	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
56-55-3	Benzo(a)anthracene	E625	ug/kg	1500 J	3100	2800	1600 J	2400 J	1300 J	1200 J	2800 J	2000 J	1100 J	2700 J	2100 J
50-32-8	Benzo(a)pyrene	E625	ug/kg	3100 J	1500	5700 J	2900 J	2300	2500 J	2800 J	2800	3100	1300	2600	3400
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	2900 J	1500	6200 J	3400 J	3100	3100 J	3000 J	3400	4200	2000	4300	4100
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	900 J	590	1300 J	880 J	870	870 J	840 J	790	800	440	850	900
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	2500 J	1800	3400 J	2400 J	2200	2200 J	2600 J	2100	2000	800	2100	2600
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	730000	1100000	830000	380000	110000	560000	660000	4100000	220000	79000	14000	23000
85-68-7	Butylbenzylphthalate	E625	ug/kg	390 UJ	390 U	550 U	510 U	150 J	450 UJ	410 U	450 U	330 U	300 U	470	310 J
105-60-2	Caprolactam	E625	ug/kg	390 UJ	390 U	550 U	510 U	400 U	450 UJ	410 U	450 U	330 U	300 U	440 U	470 U
86-74-8	Carbazole	E625	ug/kg	570	390 U	820	510 U	350 J	450 UJ	360 J	500	640	240 J	370 J	480
218-01-9	Chrysene	E625	ug/kg	4900 J	1100	8100	5700 J	3700 J	5200 J	5400 J	3600 J	5900 J	2200 J	4000 J	5100 J
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	420 J	270 J	830 J	510 J	430	430 J	320 J	450 U	410	170 J	460	500
132-64-9	Dibenzofuran	E625	ug/kg	360 J	100 J	270 J	150 J	130 J	130 J	140 J	220 J	320 J	150 J	140 J	180 J
84-66-2	Diethylphthalate	E625	ug/kg	390 UJ	390 U	550 U	510 U	400 U	450 UJ	410 U	450 U	330 U	300 U	440 U	470 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/23/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012
			Location ID	PC-SD14	PC-SD14	PC-SD15	PC-SD15	PC-SD16	PC-SD16	PC-SD17	PC-SD17	PC-SD18	PC-SD18	PC-SD21	PC-SD21
			Sample ID	PC-SD14A	PC-SD14B	PC-SD15A	PC-SD15B	PC-SD16A	PC-SD16B	PC-SD17A	PC-SD17B	PC-SD18A	PC-SD18B	PC-SD21A	PC-SD21B
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
131-11-3	Dimethylphthalate	E625	ug/kg	390 UJ	390 U	550 U	510 U	400 U	450 UJ	410 U	450 U	330 U	300 U	440 U	470 U
84-74-2	Di-n-butylphthalate	E625	ug/kg	1100 UJ	1200 U	1500 U	1600 U	1200 U	1300 UJ	1100 U	1200 U	1000 U	890 U	1300 U	1500 U
117-84-0	Di-n-octylphthalate	E625	ug/kg	3600 J	5200	2400 J	1900 J	400 U	1800 J	2700	10000 J	1000	760	910	470 U
206-44-0	Fluoranthene	E625	ug/kg	8300 J	4000	13000 J	7500 J	5200 J	5800 J	7800 J	7400 J	8300 J	2900 J	5900 J	7200 J
86-73-7	Fluorene	E625	ug/kg	460	310 J	470 J	280 J	250 J	350 J	390 J	450	520	230 J	270 J	380 J
118-74-1	Hexachlorobenzene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
87-68-3	Hexachlorobutadiene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	390 R	390 R	550 R	510 R	400 R	450 R	410 R	450 R	330 R	300 R	440 R	470 R
67-72-1	Hexachloroethane	E625	ug/kg	390 UJ	390 UJ	550 UJ	510 UJ	400 UJ	450 UJ	410 UJ	450 UJ	330 UJ	300 UJ	440 UJ	470 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	910 J	610	1700 J	970 J	1000	920 J	910 J	780	920	470	920	900
78-59-1	Isophorone	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
91-20-3	Naphthalene	E625	ug/kg	360 J	130 J	270 J	120 J	130 J	200 J	310 J	260 J	310 J	190 J	190 J	130 J
98-95-3	Nitrobenzene	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
87-86-5	Pentachlorophenol	E625	ug/kg	760 U	750 U	1100 U	1000 U	770 U	870 U	800 U	870 U	640 U	590 U	850 U	920 U
85-01-8	Phenanthrene	E625	ug/kg	4500	1300	5500	1900	2500	1500	2200	3200	5600 J	1900	2400	3000
108-95-2	Phenol	E625	ug/kg	390 U	390 U	550 U	510 U	400 U	450 U	410 U	450 U	330 U	300 U	440 U	470 U
129-00-0	Pyrene	E625	ug/kg	5100 J	3200	8500	5200 J	4000 J	4600 J	5100 J	5600 J	5200 J	2400 J	4500 J	4800 J
Total Organic Carbon															
TOC	Total Organic Carbon	EPA 415.1	mg/kg	77000	110000	100000	120000	100000	120000	110000	100000	74000	59000	130000	120000

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SD22	PC-SD22	PC-SD23	PC-SD23	PC-SD24	PC-SD24	PC-SD25	PC-SD25	PC-SD25
			Sample ID	PC-SD22A	PC-SD22B	PC-SD23A	PC-SD23B	PC-SD24A	PC-SD24B	PC-SD25A	PC-SD25B	PC-SD25CC
			Sample Type	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
Grain Size Distribution												
% CLAY	% CLAY & COLLOIDS	ASTM D422-63 BIO 8.3	% by Weight	4 J	2.5 J	2.4	4.2		4.8	2.8	4.8	
%COARSESAND	% Coarse Sand >0.5 - 1.0 mm	ASTM D422-63 BIO 8.3	% by Weight	2.6	8.7	6.2	7.3	4.1	4.7	8.9	9.2	7.3
%FINE SAND	% Fine Sand >.125 - .25 mm	ASTM D422-63 BIO 8.3	% by Weight	8	10	20	26	24	22	14	13	15
%PEBBLES	% Gravel & Larger >2.0 mm	ASTM D422-63 BIO 8.3	% by Weight	20	3.4	5.6	7.2	0.8	2.6	19	20	24
%MEDIUM SAND	% Medium Sand >.25 - .5 mm	ASTM D422-63 BIO 8.3	% by Weight	4.6	9.6	14	19	11	11	42	39	41
% SILT	% SILT	ASTM D422-63 BIO 8.3	% by Weight	49 J	51 J	39	21		39	7.4	5.8	
%VERYCOARSESAND	% Very Coarse Sand >1 - 2 mm	ASTM D422-63 BIO 8.3	% by Weight	2.2	5.4 J	4.7	5.9	1.6	2.8	3.7	3.9	3.4
%VERYFINESAND	% Very Fine Sand >.0625 - .125 mm	ASTM D422-63 BIO 8.3	% by Weight	9.9	8.9	9.2	8.9	14	13	2.8	3.4	2.4
TOTALFINES	%Silt + % Clay/Colloids (%Total Fines)	ASTM D422-63 BIO 8.3	% by Weight					44				7.9
Pesticides												
72-54-8	4,4'-DDD	CPEST	ug/kg	11	11 U	130 J	89 J	9.6 R	100 J	5.4	1800 J	160 J
72-55-9	4,4'-DDE	CPEST	ug/kg	6.1 U	11 U	7.4 R	19 R	7.1 NJ	11 R	190 NJ	170 J	4.9 R
50-29-3	4,4'-DDT	CPEST	ug/kg	14 J	11 U	280	180 J	19 J	180 J	2100 J	1300	220
309-00-2	Aldrin	CPEST	ug/kg	3.2 U	5.5 U	3.6 U	3 R	3.4 U	3.3 U	18 R	23 R	2.2 UJ
319-84-6	alpha-BHC	CPEST	ug/kg	3.2 U	5.5 U	5.4 R	2.9 UJ	3.4 U	3.3 U	11 NJ	2.7 R	2.2 UJ
5103-71-9	alpha-Chlordane	CPEST	ug/kg	3.2 U	5.5 U	47 JN	40 J	16 NJ	23 J	11 R	18 R	5.8 R
319-85-7	beta-BHC	CPEST	ug/kg	3.2 U	5.5 U	50 R	33 R	11 R	30 R	43 R	78 NJ	19 R
319-86-8	delta-BHC	CPEST	ug/kg	3.2 U	5.5 U	5.3 R	3.4 R	5.7 R	6.5 R	2.8 U	7.5 R	2.2 UJ
60-57-1	Dieldrin	CPEST	ug/kg	6.1 U	11 U	86 R	59 R	12 R	64 R	1700 JN	74 R	51 JN
959-98-8	Endosulfan I	CPEST	ug/kg	3.2 U	5.5 U	4.5 J	4.3 J	3.4 UJ	3.3 U	40 J	10 R	2.7 J
33213-65-9	Endosulfan II	CPEST	ug/kg	6.1 U	11 U	7 U	5.7 U	6.6 U	6.3 U	35 R	6.5 R	4.3 UJ
1031-07-8	Endosulfan Sulfate	CPEST	ug/kg	13 R	11 U	180 JN	72 R	6.6 U	63 R	26 R	31 R	28 J
72-20-8	Endrin	CPEST	ug/kg	6.1 U	11 U	8.8 R	5.7 U	6.6 U	7.3 NJ	67 R	77 NJ	15 J
7421-93-4	Endrin aldehyde	CPEST	ug/kg	5.8 J	11 U	45 J	28 NJ	26 J	29 J	110 JN	66 R	37 J
53494-70-5	Endrin Ketone	CPEST	ug/kg	6.1 U	11 U	7 UJ	89 J	19 J	50 JN	49 J	110 NJ	54 JN
58-89-9	gamma-BHC (Lindane)	CPEST	ug/kg	3.2 U	5.5 U	3.6 U	11 R	3.4 U	3.3 U	2.8 UJ	2.3 U	6.1 R
5103-74-2	gamma-Chlordane	CPEST	ug/kg	9.8 R	5.5 U	39 R	40 R	40 R	35 R	64 R	31 R	13 J
76-44-8	Heptachlor	CPEST	ug/kg	3.2 U	5.5 U	66 J	15 R	3.4 UJ	23 NJ	17 R	33 R	28 J
1024-57-3	Heptachlor Epoxide	CPEST	ug/kg	3.2 U	5.5 U	5.9 R	2.9 UJ	3.4 U	49 J	82 R	22 R	2.2 J
72-43-5	Methoxychlor	CPEST	ug/kg	32 U	55 U	36 U	29 UJ	36 R	33 U	120 R	120 J	22 UJ
8001-35-2	Toxaphene	CPEST	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 UJ
Metals												
7429-90-5	Aluminum	E200.7	mg/kg	11100 J	17800 J	9300 J	5900	8770 J	7410 J	5960	5090	4410
7440-36-0	Antimony	E200.7	mg/kg	11.1 UJ	14 UJ	8.4 UJ	8.3 UJ	12.8 UJ	9.3 UJ	5.7 UJ	7.1 UJ	6.2 UJ
7440-38-2	Arsenic	E200.7	mg/kg	590 J	7780 J	208 J	129 J	62.5 J	76.6 J	133 J	119 J	103 J
7440-39-3	Barium	E200.7	mg/kg	289 J	235 J	306 J	198 J	246 J	215 J	141 J	83.5 J	101 J
7440-41-7	Beryllium	E200.7	mg/kg	0.92 U	0.51 J	0.7 U	0.7 U	1.1 U	0.78 U	0.47 U	0.59 U	0.51 U
7440-43-9	Cadmium	E200.7	mg/kg	3.6 J	23.4 R	7 J	7.1	4.6 R	5.9 R	35	3.7	2.7
7440-70-2	Calcium	E200.7	mg/kg	12400 J	11500 J	16300 J	10700	13300 J	11000 J	6620	5090	5190
7440-47-3	Chromium	E200.7	mg/kg	244 J	13200 J	114 J	114 J	76.8 J	86.8 J	160 J	119 J	80.4 J
7440-48-4	Cobalt	E200.7	mg/kg	20.2 J	16.7 J	30.3 J	41.8	15.1 J	21.9 J	22.5	22.3	10.4

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SD22	PC-SD22	PC-SD23	PC-SD23	PC-SD24	PC-SD24	PC-SD25	PC-SD25	PC-SD25
			Sample ID	PC-SD22A	PC-SD22B	PC-SD23A	PC-SD23B	PC-SD24A	PC-SD24B	PC-SD25A	PC-SD25B	PC-SD25CC
			Sample Type	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
7440-50-8	Copper	E200.7	mg/kg	391 J	594 J	511 J	311 J	304 J	349 J	229 J	183 J	130 J
7439-89-6	Iron	E200.7	mg/kg	31500 J	34500 J	32700 J	22300 J	28100 J	24300 J	17400 J	15000 J	17200 J
7439-92-1	Lead	E200.7	mg/kg	2010 J	3450 J	2770 J	2430 J	495 J	946 J	784 J	1310 J	543 J
7439-95-4	Magnesium	E200.7	mg/kg	5880 J	3560 J	5470 J	3490	5680 J	4470 J	3830	3390	2560
7439-96-5	Manganese	E200.7	mg/kg	284 J	346 J	390 J	175 J	277 J	226 J	134 J	137 J	119 J
7440-02-0	Nickel	E200.7	mg/kg	54.3 J	49.6 J	50.8 J	40.3 J	45.7 J	53.8 J	29.4 J	29.1 J	23 J
9/7/7440	Potassium	E200.7	mg/kg	1480 J	1530 J	1210 J	774	1220 J	994 J	516	422 J	490 J
7782-49-2	Selenium	E200.7	mg/kg	6.5 U	8.2 U	4.9 U	4.9 U	7.5 U	5.4 U	3.3 U	4.2 U	3.6 U
7440-22-4	Silver	E200.7	mg/kg	6.6 J	2.3 U	11.8 J	13.7	3 J	13.2 J	11.1	10.7	5.1
7440-23-5	Sodium	E200.7	mg/kg	4710 J	2960 J	3930 J	4820	3370 J	3810 J	1600	1380	1220
7440-28-0	Thallium	E200.7	mg/kg	4.6 U	5.8 UJ	3.5 UJ	3.5 UJ	5.3 UJ	3.9 UJ	2.4 UJ	3 UJ	2.6 UJ
7440-62-2	Vanadium	E200.7	mg/kg	56.9 J	62.1 J	58 J	45	51 J	46.3 J	46.8	31.2	29.5
7440-66-6	Zinc	E200.7	mg/kg	1380 J	6110 J	1370 J	1080 J	1450 J	1230 J	973 J	453 J	607 J
7439-97-6	Mercury	E245.5	mg/kg	52.1 J	29 J	737 J	1130	4.1 J	151 J	117	1770	36.4
PCB Aroclors												
12674-11-2	Aroclor 1016	E608	ug/kg	61 U	110 U	70 U	57 U	66 U	63 U	54 U	450 U	43 U
11104-28-2	Aroclor 1221	E608	ug/kg	61 U	110 U	70 U	57 U	66 U	63 U	54 U	450 U	43 U
11141-16-5	Aroclor 1232	E608	ug/kg	61 U	110 U	70 U	57 U	66 U	63 U	54 U	450 U	43 U
53469-21-9	Aroclor 1242	E608	ug/kg	170 NJ	1700 J	5200 J	4500 J	2200 J	2900 J	2500 J	16000 J	1300
12672-29-6	Aroclor 1248	E608	ug/kg	61 U	110 U	70 U	57 U	66 U	63 U	54 U	450 U	43 U
11097-69-1	Aroclor 1254	E608	ug/kg	83 NJ	660	1600 JN	1800 J	430 JN	1100 JN	4100 J	23000	2000
11096-82-5	Aroclor 1260	E608	ug/kg	170 NJ	1000 J	3600 J	3200	580	2500	4300 J	44000	1800 J
37324-23-5	Aroclor 1262	E608	ug/kg	61 U	110 U	70 U	57 U	66 U	63 U	54 U	450 U	43 U
11100-14-4	Aroclor 1268	E608	ug/kg	61 U	110 U	70 U	57 U	66 U	63 U	54 U	450 U	43 U
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	52	3.7 J	65
79-34-5	1,1,2,2-Tetrachloroethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
79-00-5	1,1,2-Trichloroethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
75-34-3	1,1-Dichloroethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	330	15	2300
75-35-4	1,1-Dichloroethene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
87-61-6	1,2,3-Trichlorobenzene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	470 UJ	7 U
120-82-1	1,2,4-Trichlorobenzene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	470 U	3.5 J
96-12-8	1,2-Dibromo-3-chloropropane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	470 U	7 U
106-93-4	1,2-Dibromoethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
95-50-1	1,2-Dichlorobenzene	E624	ug/kg	9.2 U	19 U	6.5 J	31	12 U	21	12	200 J	12
107-06-2	1,2-Dichloroethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
78-87-5	1,2-Dichloropropane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
541-73-1	1,3-Dichlorobenzene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	6.8 J	9.7 U	39 J	3.3 J
106-46-7	1,4-Dichlorobenzene	E624	ug/kg	9.2 U	19 U	16 U	21	12 U	30	14	170 J	13
123-91-1	1,4-Dioxane	E624	ug/kg	180 R	390 R	320 R	190 R	230 R	210 R	190 R	130 R	140 R
78-93-3	2-Butanone	E624	ug/kg	18 U	39 U	32 U	100	23 U	77	19 U	90	14 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SD22	PC-SD22	PC-SD23	PC-SD23	PC-SD24	PC-SD24	PC-SD25	PC-SD25	PC-SD25
			Sample ID	PC-SD22A	PC-SD22B	PC-SD23A	PC-SD23B	PC-SD24A	PC-SD24B	PC-SD25A	PC-SD25B	PC-SD25CC
			Sample Type	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
591-78-6	2-Hexanone	E624	ug/kg	18 U	39 U	32 U	19 U	23 U	21 U	19 U	13 U	14 U
108-10-1	4-Methyl-2-pentanone	E624	ug/kg	18 U	39 U	32 U	19 U	23 U	21 U	19 U	13 U	14 U
67-64-1	Acetone	E624	ug/kg	66	95	32 U	320	70	210	19 U	330	14 U
71-43-2	Benzene	E624	ug/kg	9.2 U	19 U	63	220	7.6 J	410	71	1400	65
74-97-5	Bromochloromethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
75-27-4	Bromodichloromethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
75-25-2	Bromoform	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	470 U	7 U
74-83-9	Bromomethane	E624	ug/kg	9.2 U	19 UJ	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
75-15-0	Carbon Disulfide	E624	ug/kg	9.2 U	19 UJ	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
56-23-5	Carbon Tetrachloride	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
108-90-7	Chlorobenzene	E624	ug/kg	9.2 U	19 U	19	71	12 U	140	12	1200	11
75-00-3	Chloroethane	E624	ug/kg	9.2 U	19 UJ	16 U	9.6 U	12 U	10 U	45	640	33
67-66-3	Chloroform	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
74-87-3	Chloromethane	E624	ug/kg	9.2 U	19 UJ	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
156-59-2	cis-1,2-Dichloroethene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	150	5.2 J	110
10061-01-5	cis-1,3-Dichloropropene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
110-82-7	Cyclohexane	E624	ug/kg	9.2 U	19 U	16 U	4.7 J	12 U	4.8 J	9.7 U	11 J	7 U
124-48-1	Dibromochloromethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
75-71-8	Dichlorodifluoromethane	E624	ug/kg	9.2 U	19 UJ	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
100-41-4	Ethylbenzene	E624	ug/kg	9.2 U	19 U	16 U	22	12 U	53	17	1500	16
98-82-8	Isopropylbenzene	E624	ug/kg	9.2 U	19 U	8.6 J	64	12 U	190	11	94	10
179601-23-1	m,p-Xylene	E624	ug/kg	9.2 U	19 U	16 U	54	12 U	130	9.7 U	3400	7 U
79-20-9	Methyl acetate	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
1634-04-4	Methyl tert-Butyl Ether	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
108-87-2	Methylcyclohexane	E624	ug/kg	9.2 U	19 U	16 U	10 J	12 U	10 J	9.7 U	39 J	7 U
75-09-2	Methylene Chloride	E624	ug/kg	6 J	28	16 U	9.6 U	12 U	10 U	7.9 J	4 J	6.6 J
95-47-6	o-Xylene	E624	ug/kg	9.2 U	19 U	16 U	11	12 U	61	16	1500	14
100-42-5	Styrene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	9.6	7 U
127-18-4	Tetrachloroethene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
108-88-3	Toluene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	22	9.7 U	30	7 U
156-60-5	trans-1,2-Dichloroethene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
10061-02-6	trans-1,3-Dichloropropene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
79-01-6	Trichloroethene	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	4.8 J	6.6 U	4.6 J
75-69-4	Trichlorofluoromethane	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	9.7 U	6.6 U	7 U
75-01-4	Vinyl Chloride	E624	ug/kg	9.2 U	19 U	16 U	9.6 U	12 U	10 U	19	6.6 U	15
Semivolatile Organic Compounds												
92-52-4	1,1'-Biphenyl	E625	ug/kg	320 U	550 U	300 J	270 J	340 U	77 J	77 J	240	180 J
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	96 J	220 U
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SD22	PC-SD22	PC-SD23	PC-SD23	PC-SD24	PC-SD24	PC-SD25	PC-SD25	PC-SD25
			Sample ID	PC-SD22A	PC-SD22B	PC-SD23A	PC-SD23B	PC-SD24A	PC-SD24B	PC-SD25A	PC-SD25B	PC-SD25CC
			Sample Type	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
120-83-2	2,4-Dichlorophenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
105-67-9	2,4-Dimethylphenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
51-28-5	2,4-Dinitrophenol	E625	ug/kg	610 UJ	1100 U	700 R	560 R	660 R	640 R	540 R	450 R	430 R
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
91-58-7	2-Chloronaphthalene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
95-57-8	2-Chlorophenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
91-57-6	2-Methylnaphthalene	E625	ug/kg	64 J	550 U	1200 J	3800 J	340 J	560 J	120 J	1400 J	700 J
95-48-7	2-Methylphenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
88-74-4	2-Nitroaniline	E625	ug/kg	610 U	1100 U	700 U	560 U	660 U	640 U	540 U	450 U	430 U
88-75-5	2-Nitrophenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	320 U	550 U	7200 U	290 R	340 U	330 U	280 U	230 U	220 U
99-09-2	3-Nitroaniline	E625	ug/kg	610 U	1100 U	700 U	560 U	660 U	640 U	540 U	450 U	430 U
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	610 UJ	1100 UJ	700 UJ	560 UJ	660 UJ	640 UJ	540 UJ	450 UJ	430 UJ
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
106-47-8	4-Chloroaniline	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
106-44-5	4-Methylphenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
100-01-6	4-Nitroaniline	E625	ug/kg	610 U	1100 U	700 U	560 U	660 U	640 U	540 U	450 U	430 U
100-02-7	4-Nitrophenol	E625	ug/kg	610 U	1100 U	700 U	560 U	660 U	640 U	540 U	450 U	430 U
83-32-9	Acenaphthene	E625	ug/kg	160 J	550 U	5300	5400 J	590	1000	600	570	3000
208-96-8	Acenaphthylene	E625	ug/kg	320 U	140 J	360 U	290 U	340 U	330 U	280 U	230 U	220 U
98-86-2	Acetophenone	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
120-12-7	Anthracene	E625	ug/kg	590	330 J	13000	13000	1200	2500	1400	16000	3400
1912-24-9	Atrazine	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
100-52-7	Benzaldehyde	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
56-55-3	Benzo(a)anthracene	E625	ug/kg	1600 J	1400	23000	27000	4800	8400 J	4600	2200 J	17000
50-32-8	Benzo(a)pyrene	E625	ug/kg	1400	1200	17000	20000	3400	4400 J	2800	2000	12000
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	2000	1300	26000	30000	4900	10000	6300	2300	20000
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	550	700	9500	11000	2000	3200 J	1900	1400	6700
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	1500	770	9800	12000	3400	4100 J	3000	2500	6800
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	5500	550 U	23000 J	14000 J	16000	20000	12000	25000	3700 J
85-68-7	Butylbenzylphthalate	E625	ug/kg	160 J	550 U	7200 U	2900 J	540	330 UJ	280 U	230 U	220 U
105-60-2	Caprolactam	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 UJ	280 U	230 U	220 U
86-74-8	Carbazole	E625	ug/kg	240 J	140 J	4700	4500 J	650	990	610	470	2800
218-01-9	Chrysene	E625	ug/kg	1800 J	1400	22000	25000	4800	8200 J	3500	3300	15000
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	200 J	270 J	5600 J	5400 J	860	1500 J	860	760	2200
132-64-9	Dibenzofuran	E625	ug/kg	69 J	110 J	2900	2700	280 J	460	290	290	1600
84-66-2	Diethylphthalate	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 UJ	280 U	230 U	220 U

Table A-1-2
Sediment Data
Hazard Ranking System (HRS)
Weston Solutions 2013

			Sample Date	10/24/2012	10/24/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012
			Location ID	PC-SD22	PC-SD22	PC-SD23	PC-SD23	PC-SD24	PC-SD24	PC-SD25	PC-SD25	PC-SD25
			Sample ID	PC-SD22A	PC-SD22B	PC-SD23A	PC-SD23B	PC-SD24A	PC-SD24B	PC-SD25A	PC-SD25B	PC-SD25CC
			Sample Type	N	N	N	N	N	N	N	N	N
CAS No.	Chemical	Method	Unit	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
131-11-3	Dimethylphthalate	E625	ug/kg	320 U	550 U	360 U	290 U	310 J	140 J	190 J	230 U	220 U
84-74-2	Di-n-butylphthalate	E625	ug/kg	830 U	1500 U	720 U	470 U	600 U	860 UJ	600 U	980 U	380 U
117-84-0	Di-n-octylphthalate	E625	ug/kg	220 J	550 U	360 R	290 R	340 U	890 J	280 U	230 U	220 U
206-44-0	Fluoranthene	E625	ug/kg	3000 J	2800	58000	63000	14000	22000 J	13000	6900	44000
86-73-7	Fluorene	E625	ug/kg	180 J	190 J	4000	4000	570	830	480	560	2400
118-74-1	Hexachlorobenzene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
87-68-3	Hexachlorobutadiene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	320 R	550 R	360 R	290 R	340 R	330 R	280 R	230 R	220 R
67-72-1	Hexachloroethane	E625	ug/kg	320 UJ	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	570	670	11000	12000	1900	3300 J	1900	1400	7800
78-59-1	Isophorone	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
91-20-3	Naphthalene	E625	ug/kg	200 J	1700	3800	5400 J	290 J	670	290	1700	2400
98-95-3	Nitrobenzene	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
87-86-5	Pentachlorophenol	E625	ug/kg	610 U	1100 U	700 U	560 U	660 U	640 U	540 U	450 U	430 U
85-01-8	Phenanthrene	E625	ug/kg	1700	1600	44000	50000	5200	13000	7600 J	4700	36000
108-95-2	Phenol	E625	ug/kg	320 U	550 U	360 U	290 U	340 U	330 U	280 U	230 U	220 U
129-00-0	Pyrene	E625	ug/kg	2400 J	2400	42000	48000	8200	13000 J	8400	5300	30000
Total Organic Carbon												
TOC	Total Organic Carbon	EPA 415.1	mg/kg	120000	110000	84000	73000	83000	85000	15000	15000	25000

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg										
TEPH	TEPH	8015B	mg/kg	1600	DM	1200	DM	1500	D			920	DM
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg	2.7	G, P, M	5.7	M	6.3	M			4.8	PM
1461-25-2	Tetrabutyltin	8315M	ug/kg	4.6	UM	4.1	UM	3.5	UM			4.7	UM
56573-85-4	Tributyltin	8315M	ug/kg	9.3	M	4.7	PM	2.9	G, M			7.3	M
78763-54-9	Monobutyltin	8315M	ug/kg	4.6	UM	4.1	UM	3.5	UM			4.7	UM
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um	0				0				0	
0.022	0.022 um	ASTM-D421	um	0				0				0	
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um	0				0				0	
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um	0				0				0	
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um	0				0				0	
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um	0				0				0	
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um	0				0				0	
0.045	0.045 um	ASTM-D421	um	0				0				0	
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um	0				0				0	
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um	0				0				0	
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um	0				0				0	
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um	0				0				0	
0.079	0.079	ASTM-D421	um										

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um	0				0				0	
0.089	0.089 um	ASTM-D421	um	0				0				0	
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um	0				0				0	
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um	0				0				0	
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um	0				0				0	
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um	0				0				0	
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um	0				0				0	
0.178	0.178 um	ASTM-D421	um	0				0				0	
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um	0				0				0	
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um	0				0				0	
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um	0				0				0	
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um	0				0				0	
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um	0				0				0	
0.356	0.356 um	ASTM-D421	um	0				0				0	
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um	0.06				0.08				0.08	
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um	0.21				0.26				0.24	
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um	0.49				0.6				0.56	
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um	0.86				1.04				0.97	
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um	1.31				1.58				1.46	
0.710	0.710 um	ASTM-D421	um	1.83				2.19				2.02	
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um	2.4				2.86				2.62	

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um	3.01				3.58				3.26	
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um	3.66				4.34				3.94	
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um	4.37				5.17				4.67	
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um	5.14				6.06				5.45	
1.416	1.416 um	ASTM-D421	um	6.02				7.07				6.32	
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um	7.01				8.2				7.3	
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um	8.17				9.51				8.43	
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um	50.9				55.06				49.35	
100.237	100.237 um	ASTM-D421	um	95.91				96.34				92.25	
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um	100				100				100	
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um	55.02				59.07				53.32	
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um	96.31				96.83				92.66	
1124.683	1124.683 um	ASTM-D421	um	100				100				100	
12.619	12.619 um	ASTM-D421	um	59.1				62.94				57.23	
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um	96.65				97.22				93.01	
1261.915	1261.915 um	ASTM-D421	um	100				100				100	
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um	63.06				66.63				61.02	
141.589	141.589 um	ASTM-D421	um	96.95				97.53				93.34	
1415.892	1415.892 um	ASTM-D421	um	100				100				100	
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um	66.85				70.08				64.65	
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um	97.21				97.77				93.66	
1588.656	1588.656 um	ASTM-D421	um	100				100				100	
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um	70.43				73.27				68.06	
178.250	178.250 um	ASTM-D421	um	97.47				97.96				93.99	
1782.502	1782.502 um	ASTM-D421	um	100				100				100	
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um	9.5				11.01				9.72	
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um	11.03				12.73				11.19	
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um	12.77				14.68				12.86	
2.825	2.825 um	ASTM-D421	um	14.73				16.86				14.73	
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um	73.77				76.18				71.23	
200.000	200.000 um	ASTM-D421	um	97.73				98.13				94.35	
2000.000	2000.000 um	ASTM-D421	um	100				100				100	
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um	76.85				78.81				74.14	
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um	97.99				98.3				94.77	
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um	79.66				81.18				76.78	
251.785	251.785 um	ASTM-D421	um	98.27				98.48				95.25	
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um	82.2				83.3				79.17	
282.508	282.508 um	ASTM-D421	um	98.57				98.68				95.79	
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um	16.92				19.3				16.82	

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um	19.35				21.99				19.13	
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um	22.01				24.92				21.67	
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um	84.48				85.21				81.3	
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um	98.87				98.91				96.4	
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um	86.5				86.92				83.2	
355.656	355.656 um	ASTM-D421	um	99.17				99.16				97.06	
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um	88.28				88.47				84.88	
399.052	399.052 um	ASTM-D421	um	99.44				99.42				97.74	
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um	24.92				28.1				24.44	
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um	89.84				89.87				86.35	
447.744	447.744 um	ASTM-D421	um	99.68				99.66				98.41	
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um	28.06				31.5				27.44	
5.637	5.637 um	ASTM-D421	um	31.43				35.12				30.67	
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um	91.18				91.14				87.64	
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um	99.87				99.86				99.01	
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um	92.34				92.28				88.75	
563.677	563.677 um	ASTM-D421	um	99.97				99.97				99.5	
5754.399	5754.399	ASTM-D421	um										

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Sediment Data
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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um	35.02				38.91				34.1	
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um	93.32				93.31				89.7	
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um	100				100				99.84	
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um	38.8				42.85				37.72	
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um	42.73				46.89				41.5	
70.963	70.963 um	ASTM-D421	um	94.15				94.23				90.51	
709.627	709.627 um	ASTM-D421	um	100				100				99.98	
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um	94.84				95.04				91.19	
796.214	796.214 um	ASTM-D421	um	100				100				100	
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um	46.78				50.98				45.39	
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um	95.42				95.75				91.77	
893.367	893.367 um	ASTM-D421	um	100				100				100	
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um	2.08				1.85				2.05	
D[V,0.50]	D[v,0.50]	ASTM-D421	um	9.78				8.69				10.21	
D[V,0.90]	D[v,0.90]	ASTM-D421	um	45.36				45.29				65.86	
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g	79.3		89.2		63.9				57.6	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	15.1		15.3		10.1				10.1	
30402-15-4	Total PeCDF	E1613B	pg/g	387	I	396	I	289	I			234	I
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g	4060		4050		2600				2710	

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g	262		263		177				154	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g	430		429		289				262	
36088-22-9	Total PeCDD	E1613B	pg/g	67.2		71.6		51.5				42.4	
37871-00-4	Total HpCDD	E1613B	pg/g	1010		973		667				611	
38998-75-3	Total HcCDF	E1613B	pg/g	606	B	628	B	376	B			365	B
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g	626		615		355				401	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	5.62		5.55		3.75				3.68	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g	5.09		5.2		3.63				3.24	
41903-57-5	Total TCDD	E1613B	pg/g	153		160		117				123	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g	25.5		29.2		17.2				17.7	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g	16.5		15.7		9.93				9.5	
55684-94-1	Total HxCDF	E1613B	pg/g	378	I	400	I	232	I			225	I
55722-27-5	Total TCDF	E1613B	pg/g	544	I	509	I	396	I			317	I
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g	26.6		27.1		18.2				16.6	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g	14.6		15.3		9.84				8.37	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	27.7	IEMPC	29	IEMPC	16.9	IEMPC			16.4	IEMPC
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	23.7		25.2		17.7				14.4	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	17.7		19.2		12				10.9	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g	415	B	427	B	229	B			238	B
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g	98.3		97.7		53				57.4	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g	5.54		5.54		3.82				3.08	
Metals													
57-12-5	Cyanide	E200.7	mg/kg	0.43	UM	0.42	UM	0.33	U			0.45	UM
7429-90-5	Aluminum	E200.7	mg/kg	19300	M	18800	M	18100				18700	M
7439-89-6	Iron	E200.7	mg/kg	36100	M	35400	M	32700				34600	M
7439-92-1	Lead	E200.7	mg/kg	152	M	164	M	124				109	M
7439-95-4	Magnesium	E200.7	mg/kg	9830	M	10100	M	8660				9600	M
7439-96-5	Manganese	E200.7	mg/kg	560	M	542	M	520				527	M
7439-97-6	Mercury	E200.7	mg/kg	2.7	M	3.2	M	2.8				2.6	M
7440-02-0	Nickel	E200.7	mg/kg	42.8	M	53.7	M	33.1				34.6	M
7440-09-7	Potassium	E200.7	mg/kg	5440	M	5210	M	4980				5530	M
7440-22-4	Silver	E200.7	mg/kg	3.3	M	3.8	M	3				1.7	BM
7440-23-5	Sodium	E200.7	mg/kg	10800	M	10800	M	6670				11500	M
7440-28-0	Thallium	E200.7	mg/kg	1.9	BJH	2.3	JH	1.3	BJH			2.5	BJH
7440-32-6	Titanium	E200.7	mg/kg	572	NJH	547	NJH	528	NJH			554	NJH
7440-36-0	Antimony	E200.7	mg/kg	1.7	UNJL	1.7	UNJL	1.3	UNJL			1.8	UNJL
7440-38-2	Arsenic	E200.7	mg/kg	16.1	M	16	M	13.1				12.2	M

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg	155	M	143	M	129				166	M
7440-41-7	Beryllium	E200.7	mg/kg	0.96	BM	0.95	BM	0.94				0.97	BM
7440-43-9	Cadmium	E200.7	mg/kg	2.5	M	2.7	M	2.6				1.7	M
7440-47-3	Chromium	E200.7	mg/kg	140	M	153	M	122				97.4	M
7440-48-4	Cobalt	E200.7	mg/kg	11.9	BM	12.1	M	11.3				11.4	BM
7440-50-8	Copper	E200.7	mg/kg	171	M	181	M	139				120	M
7440-62-2	Vanadium	E200.7	mg/kg	48.5	M	48	M	43.7				43.8	M
7440-66-6	Zinc	E200.7	mg/kg	279	M	285	M	231				232	M
7440-70-2	Calcium	E200.7	mg/kg	8310	M	7910	M	11200				10400	M
7782-49-2	Selenium	E200.7	mg/kg	1.3	JL	0.96	UJL	0.76	UJL			1.1	BJL
9/7/7440	Potassium	E200.7	mg/kg	5440	M	5210	M	4980				5530	M
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
100-42-5	Styrene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
106-46-7	1,4-Dichlorobenzene	E524	ug/kg										
107-06-2	1,2-Dichloroethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
108-10-1	4-Methyl-2-pentanone	E524	ug/kg	38	UJ	32	UJ	24	UJ			34	UJ
108-88-3	Toluene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
108-90-7	Chlorobenzene	E524	ug/kg	19	UM	16	UM	12	U			9	G, M
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg										
124-48-1	Dibromochloromethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
127-18-4	Tetrachloroethene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
1330-20-7	Xylenes (TOTAL)	E524	ug/kg	19	UM	16	UM	12	U			17	UM
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg	19	UM	16	UM	12	U			17	UM
541-73-1	1,3-Dichlorobenzene	E524	ug/kg										
56-23-5	Carbon Tetrachloride	E524	ug/kg	19	UM	16	UM	12	U			17	UM
591-78-6	2-Hexanone	E524	ug/kg	38	UJ	32	UJ	24	UJ			34	UJ
67-64-1	Acetone	E524	ug/kg	190	J	130	J	94	J			210	J
67-66-3	Chloroform	E524	ug/kg	19	UM	16	UM	12	U			17	UM
71-43-2	Benzene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
71-55-6	1,1,1-Trichloroethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
74-83-9	Bromomethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
74-87-3	Chloromethane	E524	ug/kg	19	UJ	16	UJ	12	UJ			17	UJ
75-00-3	Chloroethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
75-01-4	Vinyl Chloride	E524	ug/kg	19	UM	16	UM	12	U			17	UM

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg	19	UM	16	UM	12	U			17	UM
75-15-0	Carbon Disulfide	E524	ug/kg	42	M	15	G, M	25				35	M
75-25-2	Bromoform	E524	ug/kg	19	UM	16	UM	12	U			17	UM
75-27-4	Bromodichloromethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
75-34-3	1,1-Dichloroethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
75-35-4	1,1-Dichloroethene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
78-87-5	1,2-Dichloropropane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
78-93-3	2-Butanone	E524	ug/kg	39	J	22	G, J	15	G, J			37	J
79-00-5	1,1,2-Trichloroethane	E524	ug/kg	19	UM	16	UM	12	U			17	UM
79-01-6	Trichloroethene	E524	ug/kg	19	UM	16	UM	12	U			17	UM
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg	19	UJ	16	UJ	12	UJ			17	UJ
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg										
95-50-1	1,2-Dichlorobenzene	E524	ug/kg										
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg	2400	UDM	2400	UDM	1900	UD			2600	UDM
100-02-7	4-Nitrophenol	E625	ug/kg	3700	UDM	3600	UDM	2800	UD			3800	UDM
100-52-7	Benzaldehyde	E625	ug/kg										
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
105-60-2	Caprolactam	E625	ug/kg										
105-67-9	2,4-Dimethylphenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
106-44-5	4-Methylphenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
106-46-7	1,4-Dichlorobenzene	E625	ug/kg	94	G, J	1200	UDM	69	G, J			1300	UDM
106-47-8	4-Chloroaniline	E625	ug/kg	160	G, J	150	G, J	210	G, D, J, L			1300	UDJL
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
108-95-2	Phenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	9100	J	12000	DM	18000	D			4700	DM
117-84-0	Di-n-octylphthalate	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
118-74-1	Hexachlorobenzene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
120-12-7	Anthracene	E625	ug/kg	440	G, D, M	440	G, D, M	380	G, D			450	G, D, M
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
120-83-2	2,4-Dichlorophenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
129-00-0	Pyrene	E625	ug/kg	2000	DM	1600	DM	1200	D			2100	DM
131-11-3	Dimethylphthalate	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
132-64-9	Dibenzofuran	E625	ug/kg	1200	UDM	1200	UDM	940	UD			77	G, J

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg										
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	890	G, D, M	720	G, D, M	460	G, D			850	G, D, M
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	690	G, D, M	610	G, D, M	380	G, D			700	G, D, M
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	1700	DM	1200	DM	940	G, D			1800	DM
206-44-0	Fluoranthene	E625	ug/kg	1400	DM	1500	DM	1200	D			1900	DM
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	610	G, D, M	740	G, D, M	360	G, D			620	G, D, M
208-96-8	Acenaphthylene	E625	ug/kg	350	G, D, M	320	G, D, M	230	G, D			330	G, D, M
218-01-9	Chrysene	E625	ug/kg	950	G, D, M	870	G, D, M	670	G, D			1200	G, D, M
50-32-8	Benzo(a)pyrene	E625	ug/kg	1300	DM	1100	G, D, M	670	G, D			1200	G, D, M
51-28-5	2,4-Dinitrophenol	E625	ug/kg	6100	UDM	6000	UDM	4700	UD			6400	UDM
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	3700	UDM	3600	UDM	2800	UD			3800	UDM
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	260	G, D, M	170	G, J	120	G, J			180	G, J
541-73-1	1,3-Dichlorobenzene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
56-55-3	Benzo(a)anthracene	E625	ug/kg	910	G, D, M	790	G, D, M	590	G, D			1000	G, D, M
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg										
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
67-72-1	Hexachloroethane	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	3700	UDM	3600	UDM	2800	UD			3800	UDM
78-59-1	Isophorone	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
83-32-9	Acenaphthene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			100	G, J
84-66-2	Diethylphthalate	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
84-74-2	Di-n-butylphthalate	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
85-01-8	Phenanthrene	E625	ug/kg	430	G, D, M	440	G, D, M	300	G, D			690	G, D, M
85-68-7	Butylbenzylphthalate	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
86-73-7	Fluorene	E625	ug/kg	1200	UDM	120	G, J	87	G, J			88	G, J
86-74-8	Carbazole	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
87-68-3	Hexachlorobutadiene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
87-86-5	Pentachlorophenol	E625	ug/kg	3700	UDM	3600	UDM	2800	UD			3800	UDM
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
88-74-4	2-Nitroaniline	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
88-75-5	2-Nitrophenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
91-20-3	Naphthalene	E625	ug/kg	150	G, J	150	G, J	130	G, J			160	G, J
91-57-6	2-Methylnaphthalene	E625	ug/kg	1200	UDM	1200	UDM	93	G, J			1300	UDM

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	2400	UDJL	2400	UDJL	1900	UDJL			2600	UDJL
92-52-4	1,1'-Biphenyl	E625	ug/kg										
95-48-7	2-Methylphenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
95-50-1	1,2-Dichlorobenzene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
95-57-8	2-Chlorophenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg										
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
98-86-2	Acetophenone	E625	ug/kg										
98-95-3	Nitrobenzene	E625	ug/kg	1200	UDM	1200	UDM	940	UD			1300	UDM
99-09-2	3-Nitroaniline	E625	ug/kg	2400	UDM	2400	UDM	1900	UD			2600	UDM
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%	58.9		57.7		46.9				61.2	
SG	Specific Gravity	MISC	sg										
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg	28000	M	24000	M	15000				23000	M
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g										
13966-02-4	Beryllium-7	RadChem	pci/g							1.27			
14255-04-0	Lead-210	RadChem	pci/g										
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg	40	UDM	39	UDM	31	UD			17	UDM
309-00-2	Aldrin	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
319-84-6	alpha-BHC	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
319-85-7	beta-BHC	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	DU
319-86-8	delta-BHC	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
33213-65-9	Endosulfan II	SW8080	ug/kg	40	UDM	39	UDM	31	UD			17	UDM
3424-82-6	2,4'-DDE	SW8080	ug/kg										
50-29-3	4,4'-DDT	SW8080	ug/kg	40	UDM	39	UDM	31	UD			33	UDM
5103-71-9	alpha-Chlordane	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
5103-74-2	gamma-Chlordane	SW8080	ug/kg	21	UDM	20	UDM	16	UD			11	UDM
53-19-0	2,4'-DDD	SW8080	ug/kg										
53494-70-5	Endrin Ketone	SW8080	ug/kg	40	UDM	39	UDM	31	UD			17	UDM
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
60-57-1	Dieldrin	SW8080	ug/kg	40	UDM	39	UDM	31	UD			17	UDM
72-20-8	Endrin	SW8080	ug/kg	40	UDM	39	UDM	31	UD			17	UDM

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg	210	UDM	200	UDM	160	UD			88	UDM
72-54-8	4,4'-DDD	SW8080	ug/kg	40	UDJ	39	UDJ	31	UDJ			21	UDJ
72-55-9	4,4'-DDE	SW8080	ug/kg	55	PDJ	62	PDJ	71	PDJ			33	PDJ
7421-93-4	Endrin aldehyde	SW8080	ug/kg	40	UDM	39	UDM	31	UD			17	UDM
76-44-8	Heptachlor	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
789-02-6	2,4'-DDT	SW8080	ug/kg										
8001-35-2	Toxaphene	SW8080	ug/kg	2100	UDM	2000	UDM	1600	UD			880	UDM
959-98-8	Endosulfan I	SW8080	ug/kg	21	UDM	20	UDM	16	UD			8.8	UDM
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg	240	UDM	230	UDM	190	UD			260	UDM
11096-82-5	Aroclor 1260	SW8081	ug/kg	170	GPDJ	190	GDJ	190	DJ			130	GDJ
11097-69-1	Aroclor 1254	SW8081	ug/kg	380	DM	440	DM	430	D			320	DM
11104-28-2	Aroclor 1221	SW8081	ug/kg	240	UDM	230	UDM	190	UD			260	UDM
11141-16-5	Aroclor 1232	SW8081	ug/kg	240	UDM	230	UDM	190	UD			260	UDM
12672-29-6	Aroclor 1248	SW8081	ug/kg	400	DM	620	DM	490	D			310	DM
12674-11-2	Aroclor 1016	SW8081	ug/kg	240	UDM	230	UDM	190	UD			260	UDM
37324-23-5	Aroclor 1262	SW8081	ug/kg	240	UDM	230	UDM	190	UD			260	UDM
53469-21-9	Aroclor 1242	SW8081	ug/kg	240	UDM	230	UDM	190	UD			260	UDM
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g	93.3	D	86.4	DJ	73.1	DJ			51.6	DJ
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g	78.8	D	93.3	DJ	80.2	DJ			68.9	DJ
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g	33400	D	38000	DJ	32300	DJ			19200	DJ
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g	9200	D	9540	DJ	8080	DJ			4930	DJ
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g	29900	D	29000	DJ	18800	DJ			19200	DJ
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g	3890	D	4360	D	4030	D			2450	DJ
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g	1490	D	1530	DJ	774	DJ			1300	DJ
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g	529	D	574	DJ	324	DJ			289	DJ
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g	1220	D	1270	DJ	788	DJ			850	DJ
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g	1680	D	1780	D	1420	D			1060	DJ
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g	13100	D	13000	DJ	11400	DJ			7900	DJ
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g	3650	D	3300	DJ	2010	DJ			2370	DJ
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g	4010	D	4090	DJ	3160	DJ			2490	DJ
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g	9490	D	8830	DJ	7580	DJ			6240	DJ
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g	12500	D	12300	DJ	10600	DJ			6970	DJ
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g	166	D	183	D	162	D			112	DJ
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			17.5	D, G, J
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g	176	D	199	DJ	229	DJ			97.2	DJ
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g	83.6	UD	83.1	UDJ	82.5	UDJ			83.3	UDJ
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g	23400	D	25200	DJ	21300	DJ			15500	DJ
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g	15300	D	16100	DJ	14100	DJ			10200	DJ
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g	5550	D	5960	DJ	5210	DJ			3940	DJ
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g	958	D	946	DJ	773	DJ			644	DJ
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g	4310	D	4470	D	3730	D			2800	DJ
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g	16300	D	15400	DJ	15500	DJ			8450	DJ
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g	9030	D	8760	DJ	8320	DJ			4780	DJ
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g	252	D	300	DJ	287	DJ			134	DJ
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g	1450	D	1570	DJ	1290	DJ			751	DJ
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g	16100	D	17200	DJ	14800	DJ			9720	DJ
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g	34500	D	34500	DJ	30500	DJ			20600	DJ
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g	1990	D	1920	DJ	1720	DJ			1350	DJ
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g	3300	D	3420	DJ	3030	DJ			2150	DJ
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g	5930	D	6410	DJ	5690	DJ			4080	DJ
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g	1520	D	1590	DJ	1300	DJ			841	DJ
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g	8690	D	9040	DJ	6870	DJ			5140	DJ
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g	9890	D	10200	DJ	9140	DJ			5500	DJ
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g	56.4	D	71.1	DJ	54.5	DJ			41.9	DJ
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g	152	D	171	DJ	152	DJ			86.9	DJ
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g	15900	D	15500	DJ	11300	DJ			9260	DJ
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g	4880	D	5220	DJ	4630	DJ			2810	DJ
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g	420	D	450	DJ	326	DJ			390	DJ
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g	241	D	232	DJ	196	DJ			153	DJ
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g	292	D	304	DJ	260	DJ			183	DJ
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g	328	D	358	DJ	305	DJ			222	DJ
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g	760	D	804	D	641	D			483	DJ
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g	4800	D	4870	D	4080	D			3000	DJ
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g	79.7	D	76.9	DJ	65.6	DJ			56	DJ
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g	1190	D	1260	DJ	1110	DJ			836	DJ
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g	25900	D	26600	DJ	25100	DJ			14500	DJ
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g	3810	D	3970	DJ	3720	DJ			2200	DJ
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g	1450	D	1430	DJ	1420	DJ			794	DJ

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Sediment Data
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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g	309	D	339	DJ	299	DJ			192	DJ
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g	128	D	154	DJ	147	DJ			64.8	DJ
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g	9790	D	9980	DJ	8900	DJ			5760	DJ
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g	3500	D	3200	DJ	2950	DJ			2070	DJ
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g	5850	D	6010	DJ	5280	DJ			3750	DJ
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g	3610	D	3850	DJ	3300	DJ			2380	DJ
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g	975	D	1050	DJ	880	DJ			618	DJ
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g	1540	D	1700	DJ	1420	DJ			1000	DJ
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g	1650	D	1780	DJ	1430	DJ			1100	DJ
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g	4330	D	4700	DJ	3930	DJ			2840	DJ
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g	4200	D	4530	DJ	3830	DJ			2730	DJ
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g	1710	D	1780	DJ	1530	DJ			1090	DJ
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g	881	D	861	DJ	762	DJ			589	DJ
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g	485	D	526	D	461	D			341	DJ
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g	1010	D	1070	DJ	969	DJ			688	DJ
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g	5460	D	5800	D	4810	D			3590	DJ
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g	1650	D	1770	D	1390	D			1010	DJ
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g	1540	D	1690	D	1420	D			1080	DJ
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g	450	D	451	D	362	D			283	DJ
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g	3660	D	3550	DJ	3280	DJ			2530	DJ
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g	638	D	697	DJ	648	DJ			464	DJ
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g	3390	D	3570	DJ	2970	DJ			2200	DJ
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g	248	D	258	DJ	240	DJ			170	DJ
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g	782	D	776	DJ	707	DJ			560	DJ
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g	186	D	121	DJ	115	DJ			127	DJ
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g	6220	D	6550	DJ	4850	DJ			3690	DJ
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g	17	D,G	41.5	UDJ	18.9	DGJ			41.7	UDJ
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g	34.9	D, G	32.8	D, G, J	24.1	D, G, J			31.4	D, G, J
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g	1030	D	1240	DJ	1020	DJ			640	DJ
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g	147	D	152	DJ	121	DJ			104	DJ
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g	164	D	205	DJ	162	DJ			101	DJ
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g	50.8	D	61.9	DJ	40.4	D, G, J			39.4	D, G, J
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g	41.8	UD	41.5	UDJ	13.5	D, G, J			14.9	D, G, J
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g	482	D	596	DJ	470	DJ			324	DJ
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g	693	D	739	DJ	544	DJ			487	DJ

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g	97.7	D	103	DJ	89.7	DJ			43.5	DJ
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g	467	D	453	DJ	377	DJ			332	DJ
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g	1710	D	1780	DJ	1590	DJ			1160	DJ
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g	114	D	112	DJ	81.9	DJ			80.4	DJ
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g	37.8	D, G	36.9	D, G, J	28	D, G, J			27.9	D, G, J
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g	102	D	106	DJ	123	DJ			56.5	DJ
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g	132	D	187	DJ	124	DJ			78.6	DJ
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g	826	D	782	DJ	647	DJ			577	DJ
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g	1080	D	1030	DJ	1020	DJ			662	DJ
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g	121	D	123	DJ	116	DJ			91.5	DJ
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g	265	D	246	D	226	D			174	DJ
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g	461	D	450	DJ	398	DJ			311	DJ
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g	757	D	813	DJ	694	DJ			503	DJ
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g	48200	D	49400	DJ	40500	DJ			27500	DJ
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g	3430	D	3470	DJ	3490	DJ			1800	DJ
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g	82.3	DJ	73.5	DJ	91.3	DJ			55.7	DJ
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g	204	D	199	DJ	167	DJ			122	DJ
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g	771	D	774	DJ	682	DJ			634	DJ
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g	342	D	347	DJ	342	DJ			178	DJ
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g	1020	D	959	DJ	799	DJ			553	DJ
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g	341	D	283	DJ	326	DJ			172	DJ
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g	274	D	284	DJ	239	DJ			189	DJ
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g	455	D	443	DJ	418	DJ			255	DJ
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g	322	D	290	DJ	237	DJ			184	DJ
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g	1120	D	1090	DJ	950	DJ			621	DJ
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g	536	D	475	DJ	415	DJ			367	DJ
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g	12	D, G	10.5	D, G, J	8.6	D, G, J			41.7	UDJ
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g	78.1	D	79.5	DJ	49.8	DJ			56.4	DJ
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g	45.2	D	46.7	DJ	47.1	DJ			20.9	D, G, J
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g	32.2	D, G	32.3	D, G, J	26.3	D, G, J			29.8	D, G, J
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g	245	D	253	DJ	225	DJ			159	DJ
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g	41.8	UD	41.5	UDJ	41.3	UDJ			41.7	UDJ

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g	41.8	UD	7.36	D, G	41.3	UD			41.7	UDJ
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g	187	D	200	D	170	D			129	DJ
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g	45.2	D	36.9	D, G, J	24.6	D, G, J			28	D, G, J
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g	317	D	311	DJ	302	DJ			217	DJ
PCB-106/118	PCB-106/118	SW8082A	pg/g	26200	D	26600	DJ	22500	DJ			16300	DJ
PCB-107/109	PCB-107/109	SW8082A	pg/g	2170	D	2280	DJ	1970	DJ			1350	DJ
PCB-108/112	PCB-108/112	SW8082A	pg/g	1650	D	1660	DJ	1470	DJ			952	DJ
PCB-111/115	PCB-111/115	SW8082A	pg/g	530	D	441	DJ	427	DJ			328	DJ
PCB-12/13	PCB-12/13	SW8082A	pg/g	5020	D	5120	DJ	3950	DJ			3000	DJ
PCB-128/162	PCB-128/162	SW8082A	pg/g	3380	D	3370	DJ	2940	DJ			2250	DJ
PCB-132/161	PCB-132/161	SW8082A	pg/g	6210	D	6680	DJ	5820	DJ			3940	DJ
PCB-133/142	PCB-133/142	SW8082A	pg/g	689	D	775	DJ	639	DJ			445	DJ
PCB-134/143	PCB-134/143	SW8082A	pg/g	1220	D	1320	DJ	935	DJ			775	DJ
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g	23900	D	24800	DJ	21000	DJ			15800	DJ
PCB-139/149	PCB-139/149	SW8082A	pg/g	21300	D	22400	DJ	19100	DJ			13800	DJ
PCB-146/165	PCB-146/165	SW8082A	pg/g	3790	D	4290	DJ	3590	DJ			2450	DJ
PCB-158/160	PCB-158/160	SW8082A	pg/g	2420	D	2470	DJ	2130	DJ			1600	DJ
PCB-16/32	PCB-16/32	SW8082A	pg/g	12200	D	11700	DJ	11200	DJ			6530	DJ
PCB-182/187	PCB-182/187	SW8082A	pg/g	10900	D	11600	DJ	9570	DJ			7220	DJ
PCB-196/203	PCB-196/203	SW8082A	pg/g	5540	D	5880	D	4900	D			3680	DJ
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g	10000	D	9910	DJ	9320	DJ			5620	DJ
PCB-24/27	PCB-24/27	SW8082A	pg/g	2280	D	2260	DJ	1890	DJ			1270	DJ
PCB-4/10	PCB-4/10	SW8082A	pg/g	5120	D	5150	DJ	3340	DJ			3270	DJ
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g	25600	D	25400	DJ	23400	DJ			14500	DJ
PCB-42/59	PCB-42/59	SW8082A	pg/g	10800	D	10900	DJ	10000	DJ			5890	DJ
PCB-43/49	PCB-43/49	SW8082A	pg/g	27000	D	29000	DJ	25800	DJ			15700	DJ
PCB-48/75	PCB-48/75	SW8082A	pg/g	5190	D	6160	DJ	5320	DJ			2940	DJ
PCB-5/8	PCB-5/8	SW8082A	pg/g	11700	D	11200	DJ	7260	DJ			7360	DJ
PCB-52/69	PCB-52/69	SW8082A	pg/g	29400	D	30300	DJ	28400	DJ			17100	DJ
PCB-56/60	PCB-56/60	SW8082A	pg/g	15100	D	14100	DJ	12700	DJ			8650	DJ
PCB-61/70	PCB-61/70	SW8082A	pg/g	26800	D	25600	DJ	25300	DJ			14800	DJ
PCB-66/76	PCB-66/76	SW8082A	pg/g	27500	D	27700	DJ	24800	DJ			15000	DJ
PCB-7/9	PCB-7/9	SW8082A	pg/g	771	D	734	DJ	535	DJ			448	DJ
PCB-84/92	PCB-84/92	SW8082A	pg/g	12600	D	13000	DJ	11800	DJ			7460	DJ
PCB-85/116	PCB-85/116	SW8082A	pg/g	5390	D	5070	DJ	4400	DJ			3240	DJ
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g	9840	D	8930	DJ	8200	DJ			6230	DJ
PCB-88/91	PCB-88/91	SW8082A	pg/g	5470	D	5700	DJ	5010	DJ			3360	DJ

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			Sample Location	NB01SED047		NB01SED047		NB01SED047		NB01SED047		NB01SED048	
			Sample ID	NB01SED047A-01		NB01SED047A-02		NB01SED047A-03		NB01SED047B-21		NB01SED048A-01	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0		0.5		1.5		0		0	
			End Depth	0.5		1.5		3		1		0.5	
			Depth Unit	ft		ft		ft		in		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g	30100	D	30800	DJ	27900	DJ			18400	DJ
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g	21900	D	22600	DJ	21200	DJ			13600	DJ
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg	730	UDM	710	UDM	560	UD			770	UDM
93-76-5	2,4,5-T	SW8151	ug/kg	730	DUJ	710	DUJ	560	DUJ			11	G, D, J
94-75-7	2,4-D	SW8151	ug/kg	1800	DUJ	1700	UDJ	1400	UDJ			1900	UDJ
94-82-6	2,4-DB	SW8151	ug/kg	1300	UDM	1300	UDM	1000	UD			1400	UDM

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg										
TEPH	TEPH	8015B	mg/kg	1100	DM			3000	DM	5200	DM	5900	DM
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg	3.4	G, P, M			52		110	DM	240	DM
1461-25-2	Tetrabutyltin	8315M	ug/kg	3.7	UM			4.9	U	7.3	M	8.5	M
56573-85-4	Tributyltin	8315M	ug/kg	6.7	M			78	D	210	DM	290	DM
78763-54-9	Monobutyltin	8315M	ug/kg	3.7	UM			4.9	U	4.7	UM	3	UM
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um	0				0				0	
0.022	0.022 um	ASTM-D421	um	0				0				0	
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um	0				0				0	
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um	0				0				0	
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um	0				0				0	
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um	0				0				0	
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um	0				0				0	
0.045	0.045 um	ASTM-D421	um	0				0				0	
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um	0				0				0	
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um	0				0				0	
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um	0				0				0	
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um	0				0				0	
0.079	0.079	ASTM-D421	um										

Table A-2-1
Sediment Data
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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um	0				0				0	
0.089	0.089 um	ASTM-D421	um	0				0				0	
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um	0				0				0	
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um	0				0				0	
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um	0				0				0	
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um	0				0				0	
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um	0				0				0	
0.178	0.178 um	ASTM-D421	um	0				0				0	
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um	0				0				0	
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um	0				0				0	
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um	0				0				0	
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um	0				0				0	
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um	0				0				0	
0.356	0.356 um	ASTM-D421	um	0				0				0	
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um	0.03				0.02				0.07	
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um	0.13				0.11				0.21	
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um	0.34				0.35				0.47	
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um	0.63				0.64				0.8	
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um	0.99				1.01				1.19	
0.710	0.710 um	ASTM-D421	um	1.4				1.43				1.64	
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um	1.86				1.88				2.14	

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Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um	2.36				2.36				2.67	
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um	2.89				2.87				3.25	
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um	3.48				3.41				3.87	
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um	4.12				4				4.56	
1.416	1.416 um	ASTM-D421	um	4.86				4.66				5.35	
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um	5.73				5.41				6.25	
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um	6.75				6.28				7.29	
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um	53.21				43.33				46.71	
100.237	100.237 um	ASTM-D421	um	99.88				89.39				88.91	
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um	100				99.53				100	
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um	58.07				47.25				50.51	
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um	100				90.21				89.51	
1124.683	1124.683 um	ASTM-D421	um	100				99.69				100	
12.619	12.619 um	ASTM-D421	um	62.85				51.15				54.23	
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um	100				90.96				90.06	
1261.915	1261.915 um	ASTM-D421	um	100				99.82				100	
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um	67.43				54.96				57.83	
141.589	141.589 um	ASTM-D421	um	100				91.64				90.59	
1415.892	1415.892 um	ASTM-D421	um	100				99.9				100	
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um	71.75				58.62				61.25	
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um	100				92.27				91.13	
1588.656	1588.656 um	ASTM-D421	um	100				99.96				100	
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um	75.74				62.08				64.45	
178.250	178.250 um	ASTM-D421	um	100				92.85				91.72	
1782.502	1782.502 um	ASTM-D421	um	100				99.98				100	
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um	7.96				7.29				8.49	
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um	9.38				8.46				9.88	
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um	11.03				9.8				11.46	
2.825	2.825 um	ASTM-D421	um	12.94				11.34				13.25	
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um	79.34				65.3				67.41	
200.000	200.000 um	ASTM-D421	um	100				93.4				92.39	
2000.000	2000.000 um	ASTM-D421	um	100				100				100	
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um	82.56				68.28				70.12	
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um	100				93.93				93.15	
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um	85.39				71				72.58	
251.785	251.785 um	ASTM-D421	um	100				94.45				94	
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um	87.86				73.47				74.82	
282.508	282.508 um	ASTM-D421	um	100				94.98				94.95	
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um	15.12				13.09				15.25	

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um	17.59				15.06				17.47	
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um	20.37				17.27				19.92	
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um	90.01				75.71				76.84	
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um	100				95.51				95.95	
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um	91.86				77.72				78.69	
355.656	355.656 um	ASTM-D421	um	100				96.05				96.96	
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um	93.46				79.54				80.36	
399.052	399.052 um	ASTM-D421	um	100				96.59				97.94	
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um	23.46				19.72				22.6	
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um	94.85				81.19				81.88	
447.744	447.744 um	ASTM-D421	um	100				97.13				98.79	
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um	26.88				22.43				25.51	
5.637	5.637 um	ASTM-D421	um	30.63				25.39				28.64	
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um	96.05				82.69				83.27	
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um	100				97.65				99.46	
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um	97.08				84.06				84.51	
563.677	563.677 um	ASTM-D421	um	100				98.12				99.92	
5754.399	5754.399	ASTM-D421	um										

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um	34.68				28.6				31.97	
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um	97.95				85.31				85.63	
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um	100				98.54				100	
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um	39.02				32.03				35.49	
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um	43.6				35.66				39.14	
70.963	70.963 um	ASTM-D421	um	98.66				86.46				86.62	
709.627	709.627 um	ASTM-D421	um	100				98.88				100	
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um	99.22				87.52				87.49	
796.214	796.214 um	ASTM-D421	um	100				99.13				100	
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um	48.35				39.44				42.9	
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um	99.64				88.5				88.25	
893.367	893.367 um	ASTM-D421	um	100				99.34				100	
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um	2.35				2.56				2.26	
D[V,0.50]	D[v,0.50]	ASTM-D421	um	9.29				12.2				11.07	
D[V,0.90]	D[v,0.90]	ASTM-D421	um	31.69				109.05				124.7	
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g	55.1				139		193		175	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	10.3				24.4		30.7		28	
30402-15-4	Total PeCDF	E1613B	pg/g	228	I			783	I	1060	I	988	I
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g	2640				5750		7020		6140	

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g	164				387		489		466	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g	280				660		831		752	
36088-22-9	Total PeCDD	E1613B	pg/g	43.4				116		142		124	
37871-00-4	Total HpCDD	E1613B	pg/g	640				1510		1880		1600	
38998-75-3	Total HcCDF	E1613B	pg/g	375	B			964	B	1230	B	1170	B
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g	399				942		1080		1030	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	3.7				10.2	G	12.4	G	11.2	G
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g	3.29				8.98	**	12	G	10.7	G
41903-57-5	Total TCDD	E1613B	pg/g	113				256		327		300	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g	19.5				66		109		209	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g	9.47				26.5		37.5		35.8	
55684-94-1	Total HxCDF	E1613B	pg/g	224				622	I	871	I	837	
55722-27-5	Total TCDF	E1613B	pg/g	315	I			1310	I	1920	I	2140	I
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g	17				59		91.3		91.8	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g	8.92				30		44.2		45.5	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	16.1				54.8	IEMPC	78.8	IEMPC	73.8	EMPC
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	15.4				39.7		52.9		52.3	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	11.1				38.1		56.7		54.4	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g	244	B			614	B	741	B	749	B
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g	55.2				142		157		166	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g	3.12				11.2	G	16.6		15	
Metals													
57-12-5	Cyanide	E200.7	mg/kg	0.36	UM			0.48	UM	0.46	UM	0.53	GM
7429-90-5	Aluminum	E200.7	mg/kg	18400	M			25000	M	25600	M	26600	M
7439-89-6	Iron	E200.7	mg/kg	33000	M			45700	M	43300	M	47500	M
7439-92-1	Lead	E200.7	mg/kg	106	M			338	M	388	M	409	M
7439-95-4	Magnesium	E200.7	mg/kg	9260	M			10600	M	9190	M	9860	M
7439-96-5	Manganese	E200.7	mg/kg	497	M			521	M	467	M	480	M
7439-97-6	Mercury	E200.7	mg/kg	1.9	M			88.1	M	161	M	282	M
7440-02-0	Nickel	E200.7	mg/kg	35.7	M			63	M	93.4	M	79.2	M
7440-09-7	Potassium	E200.7	mg/kg	5250	M			6460	M	5520	M	5770	M
7440-22-4	Silver	E200.7	mg/kg	1.9	BM			18.5	M	29.6	M	31.7	M
7440-23-5	Sodium	E200.7	mg/kg	9430	M			12600	M	12100	M	12000	M
7440-28-0	Thallium	E200.7	mg/kg	1.4	BJH			3.1	M	2.4	BM	1.8	BM
7440-32-6	Titanium	E200.7	mg/kg	521	NJH			685	NJH	610	NJH	647	NJH
7440-36-0	Antimony	E200.7	mg/kg	1.4	UNJL			2	UNJL	1.8	UNJL	1.8	UNJL
7440-38-2	Arsenic	E200.7	mg/kg	11.1	M			42.5	M	74.8	M	45.8	M

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Sediment Data
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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg	161	M			237	M	236	M	240	M
7440-41-7	Beryllium	E200.7	mg/kg	0.96	BM			1.1	BM	0.94	BM	1	BM
7440-43-9	Cadmium	E200.7	mg/kg	1.6	M			5.9	M	8.8	M	9.4	M
7440-47-3	Chromium	E200.7	mg/kg	93.8	M			201	M	237	M	218	M
7440-48-4	Cobalt	E200.7	mg/kg	11.4	M			14.5	M	15.7	M	16.3	M
7440-50-8	Copper	E200.7	mg/kg	114	M			378	M	542	M	598	M
7440-62-2	Vanadium	E200.7	mg/kg	42.5	M			64.4	M	62.3	M	65.7	M
7440-66-6	Zinc	E200.7	mg/kg	204	M			619	M	742	M	772	M
7440-70-2	Calcium	E200.7	mg/kg	12800	M			9260	M	8980	M	9760	M
7782-49-2	Selenium	E200.7	mg/kg	0.94	BJL			1.2	UJL	1.1	UJL	1.9	JL
9/7/7440	Potassium	E200.7	mg/kg	5250	M			6460	M	5520	M	5770	M
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg	15	UM			24	UJ	19	UM	5	G, M
100-42-5	Styrene	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
106-46-7	1,4-Dichlorobenzene	E524	ug/kg										
107-06-2	1,2-Dichloroethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
108-10-1	4-Methyl-2-pentanone	E524	ug/kg	29	UJ			48	UJ	38	UJ	36	UJ
108-88-3	Toluene	E524	ug/kg	15	UM			24	UJ	5	G, M	6	G, M
108-90-7	Chlorobenzene	E524	ug/kg	15	UM			24	UJ	13	G, M	21	M
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg										
124-48-1	Dibromochloromethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
127-18-4	Tetrachloroethene	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
1330-20-7	Xylenes (TOTAL)	E524	ug/kg	15	UM			24	UJ	4	G, M	9	G, M
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
541-73-1	1,3-Dichlorobenzene	E524	ug/kg										
56-23-5	Carbon Tetrachloride	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
591-78-6	2-Hexanone	E524	ug/kg	29	UJ			48	UJ	38	UJ	36	UJ
67-64-1	Acetone	E524	ug/kg	220	J			620	J	210	J	260	J
67-66-3	Chloroform	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
71-43-2	Benzene	E524	ug/kg	15	UM			10	G, J	87	M	160	M
71-55-6	1,1,1-Trichloroethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
74-83-9	Bromomethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
74-87-3	Chloromethane	E524	ug/kg	15	UJ			24	UJ	19	UJ	18	UJ
75-00-3	Chloroethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
75-01-4	Vinyl Chloride	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
75-15-0	Carbon Disulfide	E524	ug/kg	72	M			100	J	40	M	66	M
75-25-2	Bromoform	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
75-27-4	Bromodichloromethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
75-34-3	1,1-Dichloroethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
75-35-4	1,1-Dichloroethene	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
78-87-5	1,2-Dichloropropane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
78-93-3	2-Butanone	E524	ug/kg	46	J			140	J	39	J	50	J
79-00-5	1,1,2-Trichloroethane	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
79-01-6	Trichloroethene	E524	ug/kg	15	UM			24	UJ	19	UM	18	UM
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg	15	UJ			24	UJ	19	UJ	18	UJ
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg										
95-50-1	1,2-Dichlorobenzene	E524	ug/kg										
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg	2000	UDM			2800	UDM	2600	UDM	2600	UDM
100-02-7	4-Nitrophenol	E625	ug/kg	3100	UDM			4200	UDM	3900	UDM	3800	UDM
100-52-7	Benzaldehyde	E625	ug/kg										
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
105-60-2	Caprolactam	E625	ug/kg										
105-67-9	2,4-Dimethylphenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
106-44-5	4-Methylphenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
106-46-7	1,4-Dichlorobenzene	E625	ug/kg	160	G, J			110	G, J	180	G, J	320	G, D, M
106-47-8	4-Chloroaniline	E625	ug/kg	94	G, J			140	G, J	220	G, J	330	G, J
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
108-95-2	Phenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	37000	DJ			90000	DJ	90000	DM	400000	DM
117-84-0	Di-n-octylphthalate	E625	ug/kg	800	J			1000	J	730	G, D, M	1500	DM
118-74-1	Hexachlorobenzene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
120-12-7	Anthracene	E625	ug/kg	280	G, D, M			720	J	5500	DM	2900	J
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
120-83-2	2,4-Dichlorophenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
129-00-0	Pyrene	E625	ug/kg	6800	J			6900	J	15000	DM	9900	J
131-11-3	Dimethylphthalate	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
132-64-9	Dibenzofuran	E625	ug/kg	190	G, J			190	G, J	720	G, D, M	400	G, D, M

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg										
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	660	G, D, M			320	G, D, J	1800	DM	1300	DM
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	620	G, D, M			1100	J	1400	DM	1300	G, D, M
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	2800	J			3100	J	4600	DM	3800	DM
206-44-0	Fluoranthene	E625	ug/kg	5800	J			6100	J	18000	DM	12000	DM
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	1400	J			320	G, D, J	2500	DM	1500	DM
208-96-8	Acenaphthylene	E625	ug/kg	280	G, D, M			210	G, J	460	G, D, M	460	G, D, M
218-01-9	Chrysene	E625	ug/kg	1900	J			2000	J	4600	DM	3800	J
50-32-8	Benzo(a)pyrene	E625	ug/kg	1800	J			2000	J	3100	DM	2700	J
51-28-5	2,4-Dinitrophenol	E625	ug/kg	5100	UDM			6900	UDM	6600	UDM	6400	UDM
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	3100	UDM			4200	UDM	3900	UDM	3800	UDM
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	300	G, J			390	G, J	390	G, D, M	370	G, D, M
541-73-1	1,3-Dichlorobenzene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
56-55-3	Benzo(a)anthracene	E625	ug/kg	1500	J			1600	J	4600	DM	3400	DM
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg										
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
67-72-1	Hexachloroethane	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	3100	UDM			4200	UDM	3900	UDM	3800	UDM
78-59-1	Isophorone	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
83-32-9	Acenaphthene	E625	ug/kg	180	G, J			230	G, J	2600	DM	1400	DM
84-66-2	Diethylphthalate	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
84-74-2	Di-n-butylphthalate	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
85-01-8	Phenanthrene	E625	ug/kg	310	G, D, M			1500	J	3000	DM	2200	DM
85-68-7	Butylbenzylphthalate	E625	ug/kg	1000	UDM			1400	UDM	190	G, J	1300	UDM
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	1000	UDM			1400	UDM	750	G, D, M	830	G, D, M
86-73-7	Fluorene	E625	ug/kg	250	G, J			260	G, J	1400	DM	870	G, D, M
86-74-8	Carbazole	E625	ug/kg	150	G, J			240	G, J	430	G, D, M	270	G, D, M
87-68-3	Hexachlorobutadiene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
87-86-5	Pentachlorophenol	E625	ug/kg	3100	UDM			4200	UDM	3900	UDM	3800	UDM
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
88-74-4	2-Nitroaniline	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
88-75-5	2-Nitrophenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
91-20-3	Naphthalene	E625	ug/kg	350	G, J			260	G, J	860	G, D, M	590	G, D, M
91-57-6	2-Methylnaphthalene	E625	ug/kg	150	G, J			120	G, J	310	G, D, M	240	G, J

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Sediment Data
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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	2000	UDJL			2800	UDJL	2600	UDJL	2600	UDJL
92-52-4	1,1'-Biphenyl	E625	ug/kg										
95-48-7	2-Methylphenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
95-50-1	1,2-Dichlorobenzene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	98	G, J
95-57-8	2-Chlorophenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg										
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
98-86-2	Acetophenone	E625	ug/kg										
98-95-3	Nitrobenzene	E625	ug/kg	1000	UDM			1400	UDM	1300	UDM	1300	UDM
99-09-2	3-Nitroaniline	E625	ug/kg	2000	UDM			2800	UDM	2600	UDM	2600	UDM
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%	51.4				64.3		61.6		61.2	
SG	Specific Gravity	MISC	sg										
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg	18000	M			39000	M	36000	M	44000	M
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g										
13966-02-4	Beryllium-7	RadChem	pci/g			1.98							
14255-04-0	Lead-210	RadChem	pci/g										
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg	7	UDM			24	UDM	22	UDM	22	UDM
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg	14	UDM			46	UDM	43	UDM	43	UDM
309-00-2	Aldrin	SW8080	ug/kg	7	UDM			24	UDM	22	UDM	22	UDM
319-84-6	alpha-BHC	SW8080	ug/kg	7	UDM			24	UDM	5.4	G, P, D, J	14	G, P, D, J
319-85-7	beta-BHC	SW8080	ug/kg	7	UDM			24	DU	22	DU	22	DU
319-86-8	delta-BHC	SW8080	ug/kg	7	UDM			24	UDM	22	UDM	22	UDM
33213-65-9	Endosulfan II	SW8080	ug/kg	14	UDM			46	UDM	43	UDM	43	UDM
3424-82-6	2,4'-DDE	SW8080	ug/kg										
50-29-3	4,4'-DDT	SW8080	ug/kg	14	UDM			46	UDJ	43	UDJ	43	UDM
5103-71-9	alpha-Chlordane	SW8080	ug/kg	7	UDM			24	UDM	24	UDM	22	UDM
5103-74-2	gamma-Chlordane	SW8080	ug/kg	11	UDM			24	UDM	22	UDM	24	UDM
53-19-0	2,4'-DDD	SW8080	ug/kg										
53494-70-5	Endrin Ketone	SW8080	ug/kg	14	UDM			46	UDM	43	UDM	43	UDM
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg	7	UDM			24	UDM	22	UDM	22	UDM
60-57-1	Dieldrin	SW8080	ug/kg	14	UDM			50	UDM	81	UDM	46	UDM
72-20-8	Endrin	SW8080	ug/kg	14	UDM			46	UDM	43	UDM	43	UDM

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg	70	UDM			240	UDM	220	UDM	220	UDM
72-54-8	4,4'-DDD	SW8080	ug/kg	14	UDJ			86	UDM	140	UDM	72	UDJ
72-55-9	4,4'-DDE	SW8080	ug/kg	22	PDJ			77	DM	110	DM	64	PDJ
7421-93-4	Endrin aldehyde	SW8080	ug/kg	14	UDM			46	UDM	43	UDM	43	UDM
76-44-8	Heptachlor	SW8080	ug/kg	7	UDM			24	UDM	22	UDM	22	UDM
789-02-6	2,4'-DDT	SW8080	ug/kg										
8001-35-2	Toxaphene	SW8080	ug/kg	700	UDM			2400	UDM	2200	UDM	2200	UDM
959-98-8	Endosulfan I	SW8080	ug/kg	7	UDM			24	UDM	22	UDM	22	UDM
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg	200	UDM			280	UDM	520	UDM	260	UDM
11096-82-5	Aroclor 1260	SW8081	ug/kg	130	GPDJ			500	DM	1100	DM	930	DM
11097-69-1	Aroclor 1254	SW8081	ug/kg	280	DM			1100	DM	2300	DM	1700	DM
11104-28-2	Aroclor 1221	SW8081	ug/kg	200	UDM			280	UDM	520	UDM	260	UDM
11141-16-5	Aroclor 1232	SW8081	ug/kg	200	UDM			280	UDM	520	UDM	260	UDM
12672-29-6	Aroclor 1248	SW8081	ug/kg	340	DM			1200	DM	2800	PDJ	260	UDM
12674-11-2	Aroclor 1016	SW8081	ug/kg	200	UDM			280	UDM	520	UDM	260	UDM
37324-23-5	Aroclor 1262	SW8081	ug/kg	200	UDM			280	UDM	520	UDM	260	UDM
53469-21-9	Aroclor 1242	SW8081	ug/kg	200	UDM			280	UDM	520	UDM	1200	DM
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g	64.4	DJ			408	D	789	D	644	D
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g	66.7	DJ			332	D	553	D	455	D
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g	22000	DJ			92400	D	151000	D	109000	D
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g	5220	DJ			14300	D	19800	D	14400	D
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g	22200	DJ			39600	D	52800	D	43100	D
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g	2680	D			5170	D	5840	D	5040	D
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g	1590	DJ			2570	D	5370	D	3830	D
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g	368	DJ			505	D	1240	D	1110	D
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g	922	DJ			1690	D	3930	D	2650	D
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g	1100	D			4110	D	6440	D	4470	D
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g	8730	DJ			29700	D	45200	D	32600	D
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g	2920	DJ			11800	D	19300	D	14200	D
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g	2540	DJ			8230	D	13000	D	9310	D
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g	6340	DJ			28900	D	48000	D	31300	D
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g	8120	DJ			31700	D	49600	D	35300	D
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g	41.4	UDJ			41.6	UD	64.7	DBEMPC	49.4	DBEMPC
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g	116	D			599	D	1040	D	697	D
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g	41.4	UDJ			95.2	D	41.5	UD	102	D
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g	111	DJ			363	D	424	D	459	D
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g	82.8	UDJ			83.3	UD	83.1	UD	82.8	UD
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g	16200	DJ			87900	D	140000	D	104000	D
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g	11000	DJ			63700	D	110000	D	78600	D
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g	4010	DJ			23200	D	40900	D	30100	D
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g	649	DJ			3600	D	5470	D	3740	D
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g	2920	D			16600	D	28900	D	21100	D
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g	10000	DJ			69000	D	122000	D	91600	D
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g	5840	DJ			31100	D	52300	D	40900	D
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g	173	DJ			577	D	1030	D	972	D
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g	819	DJ			2780	D	4490	D	3050	D
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g	10100	DJ			46100	D	72800	D	51300	D
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g	21500	DJ			105000	D	170000	D	118000	D
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g	1350	DJ			7060	D	11900	D	8080	D
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g	2200	DJ			13800	D	22100	D	16100	D
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g	4360	DJ			28500	D	50300	D	35400	D
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g	1020	DJ			6600	D	11500	D	8680	D
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g	6180	DJ			19000	D	30400	D	22800	D
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g	6230	DJ			31400	D	57400	D	43600	D
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g	39.1	D, G, J			91.1	D	119	D	116	D
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g	98.7	DJ			231	D	333	D	269	D
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g	10900	DJ			27400	D	39100	D	31500	D
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g	3200	DJ			15500	D	26800	D	19000	D
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g	334	DJ			1300	D	1630	D	1240	D
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g	157	DJ			910	D	1560	D	1200	D
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g	195	DJ			1200	D	1950	D	1340	D
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g	227	DJ			1370	D	2220	D	1650	D
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g	502	D			2360	D	3960	D	2690	D
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g	3130	D			9410	D	13000	D	10100	D
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g	54.7	DJ			277	D	448	D	283	D
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g	852	DJ			4870	D	8500	D	6180	D
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g	16100	DJ			83900	D	147000	D	102000	D
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g	2550	DJ			13700	D	23800	D	16100	D
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g	937	DJ			5680	D	10300	D	7540	D

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g	202	DJ			822	D	1290	D	950	D
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g	84.7	DJ			257	D	411	D	350	D
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g	5950	DJ			29400	D	48200	D	33300	D
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g	2090	DJ			10700	D	17800	D	12200	D
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g	3930	DJ			23800	D	38500	D	29000	D
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g	2390	DJ			14600	D	24700	D	17500	D
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g	613	DJ			4000	D	6780	D	4760	D
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g	1030	DJ			5170	D	8440	D	5860	D
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g	1130	DJ			6110	D	10600	D	7370	D
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g	2940	DJ			16900	D	29200	D	21000	D
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g	2940	DJ			16600	D	28600	D	20300	D
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g	1180	DJ			6940	D	11800	D	8480	D
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g	607	DJ			3070	D	4980	D	3430	D
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g	350	D			2140	D	3760	D	2470	D
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g	751	DJ			4230	D	7400	D	5400	D
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g	3870	D			17900	D	29000	D	19500	D
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g	1040	D			2430	D	3040	D	2570	D
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g	1110	D			7150	D	12800	D	9520	D
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g	311	D			953	D	1420	D	1070	D
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g	2610	DJ			17500	D	29000	D	21000	D
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g	487	DJ			3240	D	5910	D	4110	D
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g	2310	DJ			12700	D	20500	D	15000	D
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g	168	DJ			471	D	740	D	602	D
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g	539	DJ			3270	D	5370	D	3550	D
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g	111	DJ			561	D	1020	D	692	D
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g	4420	DJ			12300	D	18500	D	14300	D
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g	41.4	UDJ			77.7	D	186	D	146	D
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g	33.1	D, G, J			66.5	D	75.4	D	56	D
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g	658	DJ			2760	D	4330	D	3340	D
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g	111	DJ			504	D	771	D	596	D
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g	107	DJ			561	D	877	D	661	D
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g	29.6	D, G, J			158	D	250	D	183	D
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g	41.4	UDJ			47.1	D	113	D	77.4	D
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g	356	DJ			1520	D	2200	D	1720	D
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g	505	DJ			2620	D	3520	D	2520	D

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	27.3	D, G
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g	52.5	DJ			301	D	488	D	360	D
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g	317	DJ			1330	D	2330	D	1560	D
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g	1250	DJ			5400	D	8590	D	6080	D
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g	85.7	DJ			441	D	554	D	416	D
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g	22.2	D, G, J			109	D	163	D	126	D
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g	68.5	DJ			361	D	496	D	420	D
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g	85.2	DJ			288	D	353	D	342	D
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g	611	DJ			2630	D	3800	D	2670	D
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g	719	DJ			4840	D	7610	D	5900	D
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g	93.9	DJ			579	D	992	D	710	D
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g	188	D			853	D	1590	D	982	D
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g	307	DJ			1530	D	2490	D	1680	D
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g	553	DJ			3010	D	5200	D	3740	D
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g	32500	DJ			101000	D	164000	D	138000	D
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g	2080	DJ			13300	D	24000	D	16900	D
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g	38.3	D, G, J			179	DJ	243	DJ	299	DJ
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g	141	DJ			470	D	679	D	508	D
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g	601	DJ			3040	D	5160	D	3330	D
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g	189	DJ			643	D	948	D	662	D
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g	662	DJ			2460	D	3820	D	2770	D
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g	160	DJ			1140	D	41.5	UD	1320	D
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g	196	DJ			726	D	1090	D	812	D
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g	274	DJ			1510	D	2690	D	2050	D
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g	216	DJ			915	D	1500	D	1010	D
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g	746	DJ			2750	D	4330	D	3080	D
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g	390	DJ			1760	D	2710	D	1860	D
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g	41.4	UDJ			36.1	D, G	59.5	D	40.2	D, G
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g	54.7	DJ			204	D	318	D	213	D
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g	31.8	D, G, J			172	D	224	D	183	D
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g	25.6	D, G, J			87.7	D	117	D	104	D
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g	176	DJ			999	D	1740	D	1270	D
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g	41.4	UDJ			41.6	UD	41.5	UD	41.4	UD

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g	41.4	UD			41.6	UD	41.5	UD	41.4	UD
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g	137	D			722	D	1210	D	938	D
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g	31	D, G, J			117	D	164	D	108	D
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g	244	DJ			1140	D	1920	D	1300	D
PCB-106/118	PCB-106/118	SW8082A	pg/g	17400	DJ			74600	D	118000	D	80900	D
PCB-107/109	PCB-107/109	SW8082A	pg/g	1420	DJ			6020	D	9620	D	6730	D
PCB-108/112	PCB-108/112	SW8082A	pg/g	1030	DJ			4640	D	7780	D	5520	D
PCB-111/115	PCB-111/115	SW8082A	pg/g	376	DJ			1780	D	2950	D	1960	D
PCB-12/13	PCB-12/13	SW8082A	pg/g	3400	DJ			9290	D	15600	D	11800	D
PCB-128/162	PCB-128/162	SW8082A	pg/g	2230	DJ			11500	D	18200	D	12500	D
PCB-132/161	PCB-132/161	SW8082A	pg/g	4070	DJ			24400	D	40000	D	28300	D
PCB-133/142	PCB-133/142	SW8082A	pg/g	484	DJ			2460	D	4090	D	2820	D
PCB-134/143	PCB-134/143	SW8082A	pg/g	818	DJ			4690	D	7760	D	5500	D
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g	16300	DJ			86300	D	139000	D	98900	D
PCB-139/149	PCB-139/149	SW8082A	pg/g	14600	DJ			83600	D	131000	D	97500	D
PCB-146/165	PCB-146/165	SW8082A	pg/g	2580	DJ			13600	D	22000	D	15900	D
PCB-158/160	PCB-158/160	SW8082A	pg/g	1610	DJ			9270	D	15100	D	10400	D
PCB-16/32	PCB-16/32	SW8082A	pg/g	7860	DJ			43400	D	75700	D	58800	D
PCB-182/187	PCB-182/187	SW8082A	pg/g	7320	DJ			40100	D	67700	D	47500	D
PCB-196/203	PCB-196/203	SW8082A	pg/g	3860	D			19000	D	30500	D	20700	D
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g	6350	DJ			44000	D	86500	D	62700	D
PCB-24/27	PCB-24/27	SW8082A	pg/g	1570	DJ			6380	D	9970	D	8090	D
PCB-4/10	PCB-4/10	SW8082A	pg/g	3960	DJ			14100	D	24700	D	18700	D
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g	15400	DJ			73100	D	124000	D	84700	D
PCB-42/59	PCB-42/59	SW8082A	pg/g	6570	DJ			30100	D	50100	D	35600	D
PCB-43/49	PCB-43/49	SW8082A	pg/g	17700	DJ			76100	D	122000	D	86400	D
PCB-48/75	PCB-48/75	SW8082A	pg/g	3500	DJ			18100	D	31200	D	21400	D
PCB-5/8	PCB-5/8	SW8082A	pg/g	8650	DJ			38300	D	74000	D	52300	D
PCB-52/69	PCB-52/69	SW8082A	pg/g	18800	DJ			98900	D	168000	D	113000	D
PCB-56/60	PCB-56/60	SW8082A	pg/g	9740	DJ			40800	D	67400	D	47700	D
PCB-61/70	PCB-61/70	SW8082A	pg/g	17000	DJ			77400	D	128000	D	90300	D
PCB-66/76	PCB-66/76	SW8082A	pg/g	17500	DJ			65500	D	103000	D	76300	D
PCB-7/9	PCB-7/9	SW8082A	pg/g	516	DJ			3760	D	8510	D	5910	D
PCB-84/92	PCB-84/92	SW8082A	pg/g	7820	DJ			41700	D	69200	D	47600	D
PCB-85/116	PCB-85/116	SW8082A	pg/g	3240	DJ			15300	D	24900	D	17400	D
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g	6170	DJ			33400	D	55300	D	37200	D
PCB-88/91	PCB-88/91	SW8082A	pg/g	3710	DJ			16500	D	25600	D	17700	D

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			Sample Location	NB01SED048		NB01SED048		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED048A-02		NB01SED048B-21		NB01SED049C-01		NB01SED049C-02		NB01SED049C-03	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	0.5		0		0		0.5		1.5	
			End Depth	1.5		1		0.5		1.5		2.5	
			Depth Unit	ft		in		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g	19000	DJ			101000	D	166000	D	115000	D
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g	14500	DJ			79500	D	130000	D	91000	D
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg	620	UDM			840	UDM	780	UDM	770	UDM
93-76-5	2,4,5-T	SW8151	ug/kg	620	DUJ			840	DUJ	780	DUJ	770	DUJ
94-75-7	2,4-D	SW8151	ug/kg	1500	UDJ			2000	UDJ	1900	UDJ	1900	UDJ
94-82-6	2,4-DB	SW8151	ug/kg	1100	UDM			1500	UDM	1400	UDM	1400	UDM

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg										
TEPH	TEPH	8015B	mg/kg	7300	DM	4500	DM	4100	DM				
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg	150	DM	34	M	77	DM				
1461-25-2	Tetrabutyltin	8315M	ug/kg	19	M	4.3	UM	3.7	M				
56573-85-4	Tributyltin	8315M	ug/kg	650	DM	40	M	96	DM				
78763-54-9	Monobutyltin	8315M	ug/kg	4.6	UM		R	3.6	UM				
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um					0					
0.022	0.022 um	ASTM-D421	um					0					
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um					0					
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um					0					
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um					0					
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um					0					
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um					0					
0.045	0.045 um	ASTM-D421	um					0					
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um					0					
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um					0					
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um					0					
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um					0					
0.079	0.079	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um					0					
0.089	0.089 um	ASTM-D421	um					0					
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um					0					
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um					0					
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um					0					
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um					0					
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um					0					
0.178	0.178 um	ASTM-D421	um					0					
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um					0					
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um					0					
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um					0					
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um					0					
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um					0					
0.356	0.356 um	ASTM-D421	um					0					
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um					0.09					
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um					0.28					
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um					0.61					
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um					1.02					
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um					1.52					
0.710	0.710 um	ASTM-D421	um					2.09					
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um					2.71					

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um					3.38					
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um					4.11					
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um					4.89					
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um					5.76					
1.416	1.416 um	ASTM-D421	um					6.73					
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um					7.83					
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um					9.09					
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um					52.87					
100.237	100.237 um	ASTM-D421	um					96.11					
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um					100					
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um					56.79					
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um					96.53					
1124.683	1124.683 um	ASTM-D421	um					100					
12.619	12.619 um	ASTM-D421	um					60.6					
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um					96.8					
1261.915	1261.915 um	ASTM-D421	um					100					
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um					64.25					
141.589	141.589 um	ASTM-D421	um					96.95					
1415.892	1415.892 um	ASTM-D421	um					100					
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

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Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um					67.68					
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um					97.06					
1588.656	1588.656 um	ASTM-D421	um					100					
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um					70.88					
178.250	178.250 um	ASTM-D421	um					97.17					
1782.502	1782.502 um	ASTM-D421	um					100					
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um					10.54					
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um					12.19					
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um					14.05					
2.825	2.825 um	ASTM-D421	um					16.14					
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um					73.82					
200.000	200.000 um	ASTM-D421	um					97.3					
2000.000	2000.000 um	ASTM-D421	um					100					
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um					76.52					
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um					97.47					
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um					78.98					
251.785	251.785 um	ASTM-D421	um					97.7					
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um					81.22					
282.508	282.508 um	ASTM-D421	um					97.98					
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um					18.46					

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Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um					21.01					
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um					23.81					
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um					83.28					
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um					98.31					
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um					85.18					
355.656	355.656 um	ASTM-D421	um					98.68					
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um					86.93					
399.052	399.052 um	ASTM-D421	um					99.06					
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um					26.84					
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um					88.56					
447.744	447.744 um	ASTM-D421	um					99.41					
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um					30.09					
5.637	5.637 um	ASTM-D421	um					33.55					
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um					90.07					
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um					99.71					
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um					91.46					
563.677	563.677 um	ASTM-D421	um					99.93					
5754.399	5754.399	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um					37.2					
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um					92.71					
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um					100					
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um					41					
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um					44.91					
70.963	70.963 um	ASTM-D421	um					93.82					
709.627	709.627 um	ASTM-D421	um					100					
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um					94.76					
796.214	796.214 um	ASTM-D421	um					100					
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um					48.89					
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um					95.53					
893.367	893.367 um	ASTM-D421	um					100					
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um					1.92					
D[V,0.50]	D[v,0.50]	ASTM-D421	um					9.22					
D[V,0.90]	D[v,0.90]	ASTM-D421	um					49.95					
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g	140		173	JL	228					
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	38.4		21		26.8					
30402-15-4	Total PeCDF	E1613B	pg/g	1420	I	547	I	869	I				
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g	7870		5200		5550					

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g	636		334		439					
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g	991		567		710					
36088-22-9	Total PeCDD	E1613B	pg/g	168		94.9		119					
37871-00-4	Total HpCDD	E1613B	pg/g	2210		1270		1550					
38998-75-3	Total HcCDF	E1613B	pg/g	1900	B	759	B	1010	B				
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g	1850		719		912					
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	15.2		7.89	G	10.6	**				
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g	15.2		7.35	G	10.4	G				
41903-57-5	Total TCDD	E1613B	pg/g	304		262		336					
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g	535		48.6		73.7					
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g	56.2		21.5		30.2					
55684-94-1	Total HxCDF	E1613B	pg/g	1280	I	538		687	I				
55722-27-5	Total TCDF	E1613B	pg/g	4360	I	802	I	1520	I				
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g	148		46.3		63					
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g	68.8		21.1		32.4					
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	122	IEMPC	41.1	EMPC	60.1	EMPC				
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	70.9		33.8		48.2					
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	90.3		30.3		42.3					
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g	1300	B	478	B	603	B				
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g	259		107		136					
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g	25.7		8.79	G	12.1	G				
Metals													
57-12-5	Cyanide	E200.7	mg/kg	0.88	GM	0.42	UM	0.35	UM				
7429-90-5	Aluminum	E200.7	mg/kg	39500	M	23700	M	22600	M				
7439-89-6	Iron	E200.7	mg/kg	69400	M	46500	M	41300	M				
7439-92-1	Lead	E200.7	mg/kg	604	M	271	M	301	M				
7439-95-4	Magnesium	E200.7	mg/kg	12700	M	10800	M	9420	M				
7439-96-5	Manganese	E200.7	mg/kg	592	M	554	M	501	M				
7439-97-6	Mercury	E200.7	mg/kg	758	M	53.6	M	75.5	M				
7440-02-0	Nickel	E200.7	mg/kg	121	M	56.4	M	55.6	M				
7440-09-7	Potassium	E200.7	mg/kg	6990	M	6210	M	5830	M				
7440-22-4	Silver	E200.7	mg/kg	61.6	M	10	M	13.5	M				
7440-23-5	Sodium	E200.7	mg/kg	15700	M	11400	M	8650	M				
7440-28-0	Thallium	E200.7	mg/kg	3.9	JH	1.5	UM	2.8	M				
7440-32-6	Titanium	E200.7	mg/kg	820	NJH	677	NJH	600	NJH				
7440-36-0	Antimony	E200.7	mg/kg	2.3	UNJL	1.8	BNJL	1.4	UNJL				
7440-38-2	Arsenic	E200.7	mg/kg	60.7	M	30.4	M	32	M				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg	309	M	254	M	199	M				
7440-41-7	Beryllium	E200.7	mg/kg	1.4	BM	1.1	BM	1	M				
7440-43-9	Cadmium	E200.7	mg/kg	13.9	M	4.7	M	7.2	M				
7440-47-3	Chromium	E200.7	mg/kg	284	M	171	M	207	M				
7440-48-4	Cobalt	E200.7	mg/kg	23.1	M	14.2	M	13.9	M				
7440-50-8	Copper	E200.7	mg/kg	1170	M	289	M	349	M				
7440-62-2	Vanadium	E200.7	mg/kg	86	M	63.1	M	57.9	M				
7440-66-6	Zinc	E200.7	mg/kg	1230	M	525	M	597	M				
7440-70-2	Calcium	E200.7	mg/kg	12800	M	9490	M	10400	M				
7782-49-2	Selenium	E200.7	mg/kg	2.8	JL	1	UJL	0.84	UJL				
9/7/7440	Potassium	E200.7	mg/kg	6990	M	6210	M	5830	M				
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg	27	UM	17	UM	13	UM				
100-42-5	Styrene	E524	ug/kg	27	UM	17	UM	13	UM				
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg	27	UM	17	UM	13	UM				
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg	27	UM	17	UM	13	UM				
106-46-7	1,4-Dichlorobenzene	E524	ug/kg										
107-06-2	1,2-Dichloroethane	E524	ug/kg	27	UM	17	UM	13	UM				
108-10-1	4-Methyl-2-pentanone	E524	ug/kg	55	UJ	33	UJ	26	UJ				
108-88-3	Toluene	E524	ug/kg	28	M	4	G, M	3	G, M				
108-90-7	Chlorobenzene	E524	ug/kg	24	G, M	6	G, M	6	G, M				
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg										
124-48-1	Dibromochloromethane	E524	ug/kg	27	UM	17	UM	13	UM				
127-18-4	Tetrachloroethene	E524	ug/kg	27	UM	17	UM	13	UM				
1330-20-7	Xylenes (TOTAL)	E524	ug/kg	27	UM	17	UM	10	G, M				
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg	27	UM	17	UM	13	UM				
541-73-1	1,3-Dichlorobenzene	E524	ug/kg										
56-23-5	Carbon Tetrachloride	E524	ug/kg	27	UM	17	UM	13	UM				
591-78-6	2-Hexanone	E524	ug/kg	55	UJ	33	UJ	26	UJ				
67-64-1	Acetone	E524	ug/kg	220	J	310	J	110	J				
67-66-3	Chloroform	E524	ug/kg	27	UM	17	UM	13	UM				
71-43-2	Benzene	E524	ug/kg	200	M	13	G, M	37	M				
71-55-6	1,1,1-Trichloroethane	E524	ug/kg	27	UM	17	UM	13	UM				
74-83-9	Bromomethane	E524	ug/kg	27	UM	17	UM	13	UM				
74-87-3	Chloromethane	E524	ug/kg	27	UJ	17	UJ	13	UJ				
75-00-3	Chloroethane	E524	ug/kg	27	UM	17	UM	13	UM				
75-01-4	Vinyl Chloride	E524	ug/kg	27	UM	17	UM	13	UM				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg	27	UM	17	UM	13	UM				
75-15-0	Carbon Disulfide	E524	ug/kg	21	G, M	60	M	10	G, M				
75-25-2	Bromoform	E524	ug/kg	27	UM	17	UM	13	UM				
75-27-4	Bromodichloromethane	E524	ug/kg	27	UM	17	UM	13	UM				
75-34-3	1,1-Dichloroethane	E524	ug/kg	27	UM	17	UM	13	UM				
75-35-4	1,1-Dichloroethene	E524	ug/kg	27	UM	17	UM	13	UM				
78-87-5	1,2-Dichloropropane	E524	ug/kg	27	UM	17	UM	13	UM				
78-93-3	2-Butanone	E524	ug/kg	40	G, J	66	J	16	G, J				
79-00-5	1,1,2-Trichloroethane	E524	ug/kg	27	UM	17	UM	13	UM				
79-01-6	Trichloroethene	E524	ug/kg	27	UM	17	UM	13	UM				
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg	27	UJ	17	UJ	13	UJ				
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg										
95-50-1	1,2-Dichlorobenzene	E524	ug/kg										
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg	3300	UDM	2400	UDM	2000	UDM				
100-02-7	4-Nitrophenol	E625	ug/kg	5000	UDM	3700	UDM	3100	UDM				
100-52-7	Benzaldehyde	E625	ug/kg										
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
105-60-2	Caprolactam	E625	ug/kg										
105-67-9	2,4-Dimethylphenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
106-44-5	4-Methylphenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
106-46-7	1,4-Dichlorobenzene	E625	ug/kg	490	G, D, M	110	G, J	150	G, J				
106-47-8	4-Chloroaniline	E625	ug/kg	310	G, J	140	G, J	1000	UDJL				
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
108-95-2	Phenol	E625	ug/kg	1700	UDM	1200	UDM	68	G, J				
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	540000	DM	39000	DM	260000	DJ				
117-84-0	Di-n-octylphthalate	E625	ug/kg	3300	J	600	J	440	G, D, M				
118-74-1	Hexachlorobenzene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
120-12-7	Anthracene	E625	ug/kg	3200	DM	2500	J	3600	DM				
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
120-83-2	2,4-Dichlorophenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
129-00-0	Pyrene	E625	ug/kg	11000	DM	8800	DM	15000	DJ				
131-11-3	Dimethylphthalate	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
132-64-9	Dibenzofuran	E625	ug/kg	740	G, D, M	320	G, D, M	340	G, D, M				

Table A-2-1
Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg										
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	1600	G, D, M	1900	DM	1800	DM				
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	1300	G, D, M	1600	DM	1700	DM				
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	3500	DM	4500	DM	5100	DM				
206-44-0	Fluoranthene	E625	ug/kg	13000	DM	10000	DM	18000	DJ				
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	1600	G, D, M	1800	DM	2500	DM				
208-96-8	Acenaphthylene	E625	ug/kg	600	G, D, M	510	G, D, M	630	G, D, M				
218-01-9	Chrysene	E625	ug/kg	4200	DM	3900	DM	6200	JL				
50-32-8	Benzo(a)pyrene	E625	ug/kg	2400	DM	3100	DM	3500	DM				
51-28-5	2,4-Dinitrophenol	E625	ug/kg	8300	UDM	6100	UDM	5100	UDM				
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	5000	UDM	3700	UDM	3100	UDM				
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	350	G, D, M	590	G, D, M	530	G, D, M				
541-73-1	1,3-Dichlorobenzene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
56-55-3	Benzo(a)anthracene	E625	ug/kg	3600	DM	3400	DM	4800	DM				
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg										
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
67-72-1	Hexachloroethane	E625	ug/kg	1700	UDM	1200	UDM	1000	UDJL				
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg	5000	UDM	3700	UDM		R				
78-59-1	Isophorone	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
83-32-9	Acenaphthene	E625	ug/kg	1800	DM	1300	DM	1400	DM				
84-66-2	Diethylphthalate	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
84-74-2	Di-n-butylphthalate	E625	ug/kg	190	G, J	1200	UDM	1000	UDM				
85-01-8	Phenanthrene	E625	ug/kg	3900	DM	2300	DM	2800	DM				
85-68-7	Butylbenzylphthalate	E625	ug/kg	200	G, J	5100	J	1000	UDM				
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	1200	G, D, M	580	G, D, M	710	G, D, M				
86-73-7	Fluorene	E625	ug/kg	1200	G, D, M	620	G, D, M	900	G, D, M				
86-74-8	Carbazole	E625	ug/kg	510	G, D, M	290	G, D, M	280	G, D, M				
87-68-3	Hexachlorobutadiene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
87-86-5	Pentachlorophenol	E625	ug/kg	5000	UDM	3700	UDM	3100	UDM				
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
88-74-4	2-Nitroaniline	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
88-75-5	2-Nitrophenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
91-20-3	Naphthalene	E625	ug/kg	840	G, D, M	510	G, D, M	670	G, D, M				
91-57-6	2-Methylnaphthalene	E625	ug/kg	370	G, D, M	250	G, D, M	380	G, D, M				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	3300	UDJL	2400	UDJL	2000	UDJL				
92-52-4	1,1'-Biphenyl	E625	ug/kg										
95-48-7	2-Methylphenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
95-50-1	1,2-Dichlorobenzene	E625	ug/kg	100	G, J	1200	UDM	1000	UDM				
95-57-8	2-Chlorophenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg										
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
98-86-2	Acetophenone	E625	ug/kg										
98-95-3	Nitrobenzene	E625	ug/kg	1700	UDM	1200	UDM	1000	UDM				
99-09-2	3-Nitroaniline	E625	ug/kg	3300	UDM	2400	UDM	2000	UDM				
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%	70.1		59		50.7					
SG	Specific Gravity	MISC	sg										
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg	57000	M	39000	M	34000	M				
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g							0.147		0.152	
13966-02-4	Beryllium-7	RadChem	pci/g										
14255-04-0	Lead-210	RadChem	pci/g							3.14		3.31	
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg	28	UDM	21	UDM	17	UDM				
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg	55	UDM	40	UDM	33	UDM				
309-00-2	Aldrin	SW8080	ug/kg	28	UDM	21	UDM	17	UDM				
319-84-6	alpha-BHC	SW8080	ug/kg	15	G, P, D, J	2.3	G,P,D,N,J	17	UDM				
319-85-7	beta-BHC	SW8080	ug/kg	19	G, P, D, J	12	G, P, D, J	5.1	G, P, D, J				
319-86-8	delta-BHC	SW8080	ug/kg	28	UDM	21	UDM	17	UDM				
33213-65-9	Endosulfan II	SW8080	ug/kg	55	UDM	40	UDM	33	UDM				
3424-82-6	2,4'-DDE	SW8080	ug/kg										
50-29-3	4,4'-DDT	SW8080	ug/kg	55	UDM	40	UDM	33	UDM				
5103-71-9	alpha-Chlordane	SW8080	ug/kg	67	UDM	21	UDM	17	UDM				
5103-74-2	gamma-Chlordane	SW8080	ug/kg	47	UDM	21	UDM	17	UDM				
53-19-0	2,4'-DDD	SW8080	ug/kg										
53494-70-5	Endrin Ketone	SW8080	ug/kg	55	UDM	40	UDM	33	UDM				
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg	28	UDM	21	UDM	17	UDM				
60-57-1	Dieldrin	SW8080	ug/kg	64	UDM	40	UDM	33	UDM				
72-20-8	Endrin	SW8080	ug/kg	55	UDM	40	UDM	33	UDM				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg	280	UDM	210	UDM	170	UDM				
72-54-8	4,4'-DDD	SW8080	ug/kg	130	UDJ	61	UDJ	33	UDJ				
72-55-9	4,4'-DDE	SW8080	ug/kg	90	PDJ	48	PDJ	54	PDJ				
7421-93-4	Endrin aldehyde	SW8080	ug/kg	55	UDM	40	UDM	33	UDM				
76-44-8	Heptachlor	SW8080	ug/kg	28	UDM	21	UDM	17	UDM				
789-02-6	2,4'-DDT	SW8080	ug/kg										
8001-35-2	Toxaphene	SW8080	ug/kg	2800	UDM	2100	UDM	1700	UDM				
959-98-8	Endosulfan I	SW8080	ug/kg	28	UDM	21	UDM	17	UDM				
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg	330	UDM	240	UDM	1000	UDM				
11096-82-5	Aroclor 1260	SW8081	ug/kg	1100	DM	490	DM	880	GDM				
11097-69-1	Aroclor 1254	SW8081	ug/kg	2200	DM	960	DM	1700	DM				
11104-28-2	Aroclor 1221	SW8081	ug/kg	330	UDM	240	UDM	1000	UDM				
11141-16-5	Aroclor 1232	SW8081	ug/kg	330	UDM	240	UDM	1000	UDM				
12672-29-6	Aroclor 1248	SW8081	ug/kg	330	UDM	940	DM	1700	DM				
12674-11-2	Aroclor 1016	SW8081	ug/kg	330	UDM	240	UDM	1000	UDM				
37324-23-5	Aroclor 1262	SW8081	ug/kg	330	UDM	240	UDM	1000	UDM				
53469-21-9	Aroclor 1242	SW8081	ug/kg	1600	DM	240	UDM	1000	UDM				
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g	862	D	207	D	362	D				
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g	600	D	220	D	307	D				
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g	110000	D	45700	D	96300	D				
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g	12700	D	9080	D	21500	D				
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g	43900	D	28800	D	36800	D				
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g	4810	D	4730	D	5720	D				
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g	5850	D	1820	D	1420	D				
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g	1250	D	514	D	674	D				
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g	3130	D	1430	D	1670	D				
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g	5110	D	3170	D	4400	D				
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g	35500	D	19600	D	32600	D				
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g	19400	D	4830	D	6860	D				
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g	10700	D	5740	D	8430	D				
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g	35400	D	18100	D	28400	D				
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g	38800	D	18500	D	33000	D				
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g	77.6	DBEMPC	20.8	D,B,G,EMPC	39	D,B,G,EMPC				
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g	823	D	459	D	669	D				
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g	122	D	41.8	UD	96.9	D				
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g	499	D	247	D	720	D				
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g	82.8	UD	83.6	UD	84.2	UD				
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g	113000	D	61400	D	104000	D				
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g	92900	D	48900	D	73600	D				
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g	34000	D	18000	D	27800	D				
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g	4100	D	2030	DJ	3090	D				
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g	24200	D	12200	D	18000	D				
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g	97700	D	31500	D	69700	D				
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g	43400	D	15100	D	33500	D				
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g	985	D	339	D	769	D				
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g	3370	D	1840	D	3030	D				
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g	54200	D	30500	D	52700	D				
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g	128000	D	66200	D	105000	D				
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g	9050	D	4770	D	7310	D				
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g	17600	D	9050	D	16100	D				
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g	42800	D	21500	D	33100	D				
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g	9900	D	3360	D	6200	D				
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g	22800	D	10700	D	18400	D				
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g	45400	D	16400	D	33700	D				
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g	143	D	73.7	D	109	D				
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g	289	D	171	D	292	D				
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g	35300	D	19900	D	26700	D				
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g	21300	D	8990	D	17200	D				
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g	1180	D	939	D	2270	D				
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g	1390	D	708	D	1080	D				
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g	1570	D	816	D	1330	D				
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g	1860	D	1000	D	1460	D				
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g	3220	D	1830	D	2570	D				
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g	11100	D	7580	D	9160	D				
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g	322	D	173	D	247	D				
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g	6830	D	3730	DJ	5860	D				
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g	111000	D	47500	D	93300	D				
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g	17900	D	7850	D	14100	D				
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g	8650	D	3220	D	6180	D				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g	1080	D	539	D	931	D				
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g	396	D	175	D	350	D				
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g	36500	D	18000	D	29400	D				
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g	14200	D	6460	D	10400	D				
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g	31400	D	16800	D	27900	D				
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g	19600	D	10500	D	17200	D				
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g	5500	D	2860	D	4540	D				
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g	6240	D	3540	D	5350	D				
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g	8130	D	4570	D	7130	D				
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g	23200	D	12800	D	19700	D				
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g	24300	D	12800	D	19600	D				
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g	10200	D	5280	DJ	8170	D				
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g	3970	D	2080	D	3120	D				
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g	3000	D	1550	D	2330	D				
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g	6410	D	3370	D	4910	D				
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g	22300	D	13100	D	18400	D				
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g	2800	D	2030	D	2460	D				
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g	11100	D	5560	D	8500	D				
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g	1260	D	756	D	977	D				
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g	23600	D	11900	D	18800	D				
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g	5010	D	2520	D	3810	D				
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g	16500	D	8850	D	14600	D				
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g	605	D	365	D	623	D				
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g	4120	D	2030	D	3070	D				
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g	947	D	396	D	673	D				
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g	14800	D	7490	D	12000	D				
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g	272	D	49.7	D	88.9	D				
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g	72.6	D	61.3	D	52.9	D				
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g	3340	D	2000	D	3920	D				
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g	742	D	351	D	511	D				
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g	660	D	415	D	636	D				
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g	203	D	108	D	204	D				
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g	87.3	D	45.2	D	70.5	D				
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g	1680	D	1110	D	2260	D				
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g	2510	D	1680	D	5030	D				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g	388	D	167	D	322	D				
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g	1710	D	837	D	1440	D				
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g	6580	D	3470	D	5390	D				
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g	382	D	274	D	904	D				
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g	162	D	76	D	101	D				
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g	287	D	147	D	251	D				
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g	354	D	210	D	439	D				
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g	2740	D	1900	D	3890	D				
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g	6120	D	3220	D	5070	D				
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g	887	D	446	D	662	D				
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g	1230	D	675	D	1010	D				
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g	2030	D	1010	D	1450	D				
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g	4280	D	2360	D	3560	D				
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g	143000	D	65000	D	116000	D				
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g	19000	D	7180	D	14800	D				
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g	386	DJ	214	DJ	369	DJ				
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g	565	D	291	D	476	D				
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g	3730	D	1770	D	3100	D				
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g	618	D	369	D	712	D				
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g	3090	D	1470	D	2530	D				
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g	41.4	UD	488	D	1220	D				
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g	936	D	501	D	720	D				
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g	2490	D	901	D	1600	D				
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g	1120	D	566	D	924	D				
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g	3470	D	1600	D	2900	D				
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g	2170	D	1080	D	1760	D				
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g	62.4	D	23.6	D, G	37.3	D, G				
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g	206	D	178	D	389	D				
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g	209	D	85.6	D	228	D				
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g	131	D	55	D	101	D				
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g	1500	D	783	D	1180	D				
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g	41.4	UD	41.8	UD	42.1	UD				
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g	1010	D	490	D	819	D				
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g	125	D	83.1	D	192	D				
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g	1610	D	688	D	1200	D				
PCB-106/118	PCB-106/118	SW8082A	pg/g	92500	D	47100	D	74500	D				
PCB-107/109	PCB-107/109	SW8082A	pg/g	7820	D	3610	D	6060	D				
PCB-108/112	PCB-108/112	SW8082A	pg/g	5940	D	2910	D	4720	D				
PCB-111/115	PCB-111/115	SW8082A	pg/g	2180	D	1090	D	1720	D				
PCB-12/13	PCB-12/13	SW8082A	pg/g	12200	D	5130	D	10900	D				
PCB-128/162	PCB-128/162	SW8082A	pg/g	14300	D	7550	D	11000	D				
PCB-132/161	PCB-132/161	SW8082A	pg/g	32100	D	16200	D	25100	D				
PCB-133/142	PCB-133/142	SW8082A	pg/g	3060	D	1640	D	2740	D				
PCB-134/143	PCB-134/143	SW8082A	pg/g	6210	D	3000	D	4940	D				
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g	108000	D	58400	D	89700	D				
PCB-139/149	PCB-139/149	SW8082A	pg/g	106000	D	57500	D	98300	D				
PCB-146/165	PCB-146/165	SW8082A	pg/g	17400	D	9330	D	15800	D				
PCB-158/160	PCB-158/160	SW8082A	pg/g	11300	D	6100	D	9480	D				
PCB-16/32	PCB-16/32	SW8082A	pg/g	64200	D	22300	D	46200	D				
PCB-182/187	PCB-182/187	SW8082A	pg/g	52600	D	29800	D	47000	D				
PCB-196/203	PCB-196/203	SW8082A	pg/g	23700	D	13800	D	19800	D				
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g	66400	D	20000	D	43700	D				
PCB-24/27	PCB-24/27	SW8082A	pg/g	8760	D	3610	D	6560	D				
PCB-4/10	PCB-4/10	SW8082A	pg/g	21700	D	7100	D	10100	D				
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g	92200	D	42400	D	81200	D				
PCB-42/59	PCB-42/59	SW8082A	pg/g	39000	D	17800	D	33800	D				
PCB-43/49	PCB-43/49	SW8082A	pg/g	92700	D	44700	D	82300	D				
PCB-48/75	PCB-48/75	SW8082A	pg/g	23100	D	9970	D	20300	D				
PCB-5/8	PCB-5/8	SW8082A	pg/g	59000	D	17400	D	27600	D				
PCB-52/69	PCB-52/69	SW8082A	pg/g	123000	D	54900	D	105000	D				
PCB-56/60	PCB-56/60	SW8082A	pg/g	53700	D	24300	D	42800	D				
PCB-61/70	PCB-61/70	SW8082A	pg/g	99500	D	43700	D	85100	D				
PCB-66/76	PCB-66/76	SW8082A	pg/g	83800	D	40500	D	72800	D				
PCB-7/9	PCB-7/9	SW8082A	pg/g	6790	D	1540	D	2790	D				
PCB-84/92	PCB-84/92	SW8082A	pg/g	51200	D	25000	D	40900	D				
PCB-85/116	PCB-85/116	SW8082A	pg/g	18600	D	9590	D	15100	D				
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g	41000	D	20300	D	31400	D				
PCB-88/91	PCB-88/91	SW8082A	pg/g	18700	D	10500	D	18000	D				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-04		NB01SED049C-05		NB01SED049C-06		NB01SED049C-21		NB01SED049C-22	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	2.5		3.5		5		0		2	
			End Depth	3.5		5		6.5		2		4	
			Depth Unit	ft		ft		ft		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g	123000	D	62500	D	106000	D				
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g	100000	D	48600	D	80300	D				
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg	1000	UDM	5.7	G, D, J, H	610	UDM				
93-76-5	2,4,5-T	SW8151	ug/kg	1000	DUJ	730	DUJ	610	DUJ				
94-75-7	2,4-D	SW8151	ug/kg	2400	UDJ	1800	UDJ	1500	DUJ				
94-82-6	2,4-DB	SW8151	ug/kg	1800	UDM	1300	UDM	1100	UDM				

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg										
TEPH	TEPH	8015B	mg/kg										
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg										
1461-25-2	Tetrabutyltin	8315M	ug/kg										
56573-85-4	Tributyltin	8315M	ug/kg										
78763-54-9	Monobutyltin	8315M	ug/kg										
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um										
0.022	0.022 um	ASTM-D421	um										
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um										
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um										
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um										
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um										
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um										
0.045	0.045 um	ASTM-D421	um										
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um										
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um										
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um										
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um										
0.079	0.079	ASTM-D421	um										

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Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um										
0.089	0.089 um	ASTM-D421	um										
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um										
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um										
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um										
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um										
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um										
0.178	0.178 um	ASTM-D421	um										
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um										
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um										
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um										
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um										
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um										
0.356	0.356 um	ASTM-D421	um										
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um										
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um										
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um										
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um										
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um										
0.710	0.710 um	ASTM-D421	um										
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um										

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um										
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um										
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um										
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um										
1.416	1.416 um	ASTM-D421	um										
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um										
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um										
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um										
100.237	100.237 um	ASTM-D421	um										
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um										
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um										
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um										
1124.683	1124.683 um	ASTM-D421	um										
12.619	12.619 um	ASTM-D421	um										
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um										
1261.915	1261.915 um	ASTM-D421	um										
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um										
141.589	141.589 um	ASTM-D421	um										
1415.892	1415.892 um	ASTM-D421	um										
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

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Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um										
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um										
1588.656	1588.656 um	ASTM-D421	um										
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um										
178.250	178.250 um	ASTM-D421	um										
1782.502	1782.502 um	ASTM-D421	um										
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um										
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um										
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um										
2.825	2.825 um	ASTM-D421	um										
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um										
200.000	200.000 um	ASTM-D421	um										
2000.000	2000.000 um	ASTM-D421	um										
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um										
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um										
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um										
251.785	251.785 um	ASTM-D421	um										
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um										
282.508	282.508 um	ASTM-D421	um										
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um										

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Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um										
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um										
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um										
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um										
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um										
355.656	355.656 um	ASTM-D421	um										
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um										
399.052	399.052 um	ASTM-D421	um										
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um										
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um										
447.744	447.744 um	ASTM-D421	um										
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um										
5.637	5.637 um	ASTM-D421	um										
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um										
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um										
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um										
563.677	563.677 um	ASTM-D421	um										
5754.399	5754.399	ASTM-D421	um										

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Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um										
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um										
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um										
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um										
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um										
70.963	70.963 um	ASTM-D421	um										
709.627	709.627 um	ASTM-D421	um										
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um										
796.214	796.214 um	ASTM-D421	um										
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um										
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um										
893.367	893.367 um	ASTM-D421	um										
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um										
D[V,0.50]	D[v,0.50]	ASTM-D421	um										
D[V,0.90]	D[v,0.90]	ASTM-D421	um										
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g										
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g										
30402-15-4	Total PeCDF	E1613B	pg/g										
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g										

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Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g										
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g										
36088-22-9	Total PeCDD	E1613B	pg/g										
37871-00-4	Total HpCDD	E1613B	pg/g										
38998-75-3	Total HcCDF	E1613B	pg/g										
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g										
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g										
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g										
41903-57-5	Total TCDD	E1613B	pg/g										
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g										
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g										
55684-94-1	Total HxCDF	E1613B	pg/g										
55722-27-5	Total TCDF	E1613B	pg/g										
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g										
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g										
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g										
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g										
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g										
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g										
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g										
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g										
Metals													
57-12-5	Cyanide	E200.7	mg/kg										
7429-90-5	Aluminum	E200.7	mg/kg										
7439-89-6	Iron	E200.7	mg/kg										
7439-92-1	Lead	E200.7	mg/kg										
7439-95-4	Magnesium	E200.7	mg/kg										
7439-96-5	Manganese	E200.7	mg/kg										
7439-97-6	Mercury	E200.7	mg/kg										
7440-02-0	Nickel	E200.7	mg/kg										
7440-09-7	Potassium	E200.7	mg/kg										
7440-22-4	Silver	E200.7	mg/kg										
7440-23-5	Sodium	E200.7	mg/kg										
7440-28-0	Thallium	E200.7	mg/kg										
7440-32-6	Titanium	E200.7	mg/kg										
7440-36-0	Antimony	E200.7	mg/kg										
7440-38-2	Arsenic	E200.7	mg/kg										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg										
7440-41-7	Beryllium	E200.7	mg/kg										
7440-43-9	Cadmium	E200.7	mg/kg										
7440-47-3	Chromium	E200.7	mg/kg										
7440-48-4	Cobalt	E200.7	mg/kg										
7440-50-8	Copper	E200.7	mg/kg										
7440-62-2	Vanadium	E200.7	mg/kg										
7440-66-6	Zinc	E200.7	mg/kg										
7440-70-2	Calcium	E200.7	mg/kg										
7782-49-2	Selenium	E200.7	mg/kg										
9/7/7440	Potassium	E200.7	mg/kg										
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg										
100-42-5	Styrene	E524	ug/kg										
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg										
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg										
106-46-7	1,4-Dichlorobenzene	E524	ug/kg										
107-06-2	1,2-Dichloroethane	E524	ug/kg										
108-10-1	4-Methyl-2-pentanone	E524	ug/kg										
108-88-3	Toluene	E524	ug/kg										
108-90-7	Chlorobenzene	E524	ug/kg										
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg										
124-48-1	Dibromochloromethane	E524	ug/kg										
127-18-4	Tetrachloroethene	E524	ug/kg										
1330-20-7	Xylenes (TOTAL)	E524	ug/kg										
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg										
541-73-1	1,3-Dichlorobenzene	E524	ug/kg										
56-23-5	Carbon Tetrachloride	E524	ug/kg										
591-78-6	2-Hexanone	E524	ug/kg										
67-64-1	Acetone	E524	ug/kg										
67-66-3	Chloroform	E524	ug/kg										
71-43-2	Benzene	E524	ug/kg										
71-55-6	1,1,1-Trichloroethane	E524	ug/kg										
74-83-9	Bromomethane	E524	ug/kg										
74-87-3	Chloromethane	E524	ug/kg										
75-00-3	Chloroethane	E524	ug/kg										
75-01-4	Vinyl Chloride	E524	ug/kg										

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Sediment Data
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Tierra Solutions 2008

			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg										
75-15-0	Carbon Disulfide	E524	ug/kg										
75-25-2	Bromoform	E524	ug/kg										
75-27-4	Bromodichloromethane	E524	ug/kg										
75-34-3	1,1-Dichloroethane	E524	ug/kg										
75-35-4	1,1-Dichloroethene	E524	ug/kg										
78-87-5	1,2-Dichloropropane	E524	ug/kg										
78-93-3	2-Butanone	E524	ug/kg										
79-00-5	1,1,2-Trichloroethane	E524	ug/kg										
79-01-6	Trichloroethene	E524	ug/kg										
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg										
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg										
95-50-1	1,2-Dichlorobenzene	E524	ug/kg										
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg										
100-02-7	4-Nitrophenol	E625	ug/kg										
100-52-7	Benzaldehyde	E625	ug/kg										
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg										
105-60-2	Caprolactam	E625	ug/kg										
105-67-9	2,4-Dimethylphenol	E625	ug/kg										
106-44-5	4-Methylphenol	E625	ug/kg										
106-46-7	1,4-Dichlorobenzene	E625	ug/kg										
106-47-8	4-Chloroaniline	E625	ug/kg										
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg										
108-95-2	Phenol	E625	ug/kg										
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg										
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg										
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg										
117-84-0	Di-n-octylphthalate	E625	ug/kg										
118-74-1	Hexachlorobenzene	E625	ug/kg										
120-12-7	Anthracene	E625	ug/kg										
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg										
120-83-2	2,4-Dichlorophenol	E625	ug/kg										
121-14-2	2,4-Dinitrotoluene	E625	ug/kg										
129-00-0	Pyrene	E625	ug/kg										
131-11-3	Dimethylphthalate	E625	ug/kg										
132-64-9	Dibenzofuran	E625	ug/kg										

Table A-2-1
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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg										
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg										
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg										
205-99-2	Benzo(b)fluoranthene	E625	ug/kg										
206-44-0	Fluoranthene	E625	ug/kg										
207-08-9	Benzo(k)fluoranthene	E625	ug/kg										
208-96-8	Acenaphthylene	E625	ug/kg										
218-01-9	Chrysene	E625	ug/kg										
50-32-8	Benzo(a)pyrene	E625	ug/kg										
51-28-5	2,4-Dinitrophenol	E625	ug/kg										
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg										
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg										
541-73-1	1,3-Dichlorobenzene	E625	ug/kg										
56-55-3	Benzo(a)anthracene	E625	ug/kg										
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg										
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg										
606-20-2	2,6-Dinitrotoluene	E625	ug/kg										
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg										
67-72-1	Hexachloroethane	E625	ug/kg										
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg										
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg										
78-59-1	Isophorone	E625	ug/kg										
83-32-9	Acenaphthene	E625	ug/kg										
84-66-2	Diethylphthalate	E625	ug/kg										
84-74-2	Di-n-butylphthalate	E625	ug/kg										
85-01-8	Phenanthrene	E625	ug/kg										
85-68-7	Butylbenzylphthalate	E625	ug/kg										
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg										
86-73-7	Fluorene	E625	ug/kg										
86-74-8	Carbazole	E625	ug/kg										
87-68-3	Hexachlorobutadiene	E625	ug/kg										
87-86-5	Pentachlorophenol	E625	ug/kg										
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg										
88-74-4	2-Nitroaniline	E625	ug/kg										
88-75-5	2-Nitrophenol	E625	ug/kg										
91-20-3	Naphthalene	E625	ug/kg										
91-57-6	2-Methylnaphthalene	E625	ug/kg										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg										
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg										
92-52-4	1,1'-Biphenyl	E625	ug/kg										
95-48-7	2-Methylphenol	E625	ug/kg										
95-50-1	1,2-Dichlorobenzene	E625	ug/kg										
95-57-8	2-Chlorophenol	E625	ug/kg										
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg										
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg										
98-86-2	Acetophenone	E625	ug/kg										
98-95-3	Nitrobenzene	E625	ug/kg										
99-09-2	3-Nitroaniline	E625	ug/kg										
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%										
SG	Specific Gravity	MISC	sg										
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg										
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g	0.18		0.142		0.14		0.123		0.169	
13966-02-4	Beryllium-7	RadChem	pci/g										
14255-04-0	Lead-210	RadChem	pci/g	2.98		2.45		2.66		3.1		2.97	
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg										
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg										
309-00-2	Aldrin	SW8080	ug/kg										
319-84-6	alpha-BHC	SW8080	ug/kg										
319-85-7	beta-BHC	SW8080	ug/kg										
319-86-8	delta-BHC	SW8080	ug/kg										
33213-65-9	Endosulfan II	SW8080	ug/kg										
3424-82-6	2,4'-DDE	SW8080	ug/kg										
50-29-3	4,4'-DDT	SW8080	ug/kg										
5103-71-9	alpha-Chlordane	SW8080	ug/kg										
5103-74-2	gamma-Chlordane	SW8080	ug/kg										
53-19-0	2,4'-DDD	SW8080	ug/kg										
53494-70-5	Endrin Ketone	SW8080	ug/kg										
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg										
60-57-1	Dieldrin	SW8080	ug/kg										
72-20-8	Endrin	SW8080	ug/kg										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg										
72-54-8	4,4'-DDD	SW8080	ug/kg										
72-55-9	4,4'-DDE	SW8080	ug/kg										
7421-93-4	Endrin aldehyde	SW8080	ug/kg										
76-44-8	Heptachlor	SW8080	ug/kg										
789-02-6	2,4'-DDT	SW8080	ug/kg										
8001-35-2	Toxaphene	SW8080	ug/kg										
959-98-8	Endosulfan I	SW8080	ug/kg										
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg										
11096-82-5	Aroclor 1260	SW8081	ug/kg										
11097-69-1	Aroclor 1254	SW8081	ug/kg										
11104-28-2	Aroclor 1221	SW8081	ug/kg										
11141-16-5	Aroclor 1232	SW8081	ug/kg										
12672-29-6	Aroclor 1248	SW8081	ug/kg										
12674-11-2	Aroclor 1016	SW8081	ug/kg										
37324-23-5	Aroclor 1262	SW8081	ug/kg										
53469-21-9	Aroclor 1242	SW8081	ug/kg										
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g										
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g										
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g										
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g										
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g										
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g										
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g										
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g										
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g										
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g										
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g										
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g										
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g										
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g										
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g										
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g										
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g										
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g										
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g										
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g										
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g										
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g										
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g										
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g										
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g										
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g										
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g										
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g										
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g										
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g										
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g										
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g										
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g										
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g										
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g										
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g										
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g										
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g										
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g										
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g										
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g										
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g										
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g										
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g										
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g										
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g										
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g										
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g										
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g										
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g										
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g										
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g										
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g										
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g										
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g										
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g										
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g										
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g										
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g										
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g										
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g										
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g										
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g										
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g										
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g										
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g										
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g										
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g										
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g										
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g										
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g										
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g										
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g										
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g										
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g										
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g										
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g										
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g										
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g										
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g										
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g										
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g										
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g										
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g										
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g										
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g										
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g										
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g										
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g										
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g										
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g										
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g										
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g										
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g										
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g										
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g										
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g										
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g										
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g										
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g										
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g										
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g										
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g										
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g										
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g										
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g										
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g										
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g										
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g										
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g										
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g										
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g										
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g										
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g										
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g										
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g										
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g										
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g										
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g										
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g										
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g										
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g										
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g										
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g										
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g										
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g										
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g										
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g										
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g										
PCB-106/118	PCB-106/118	SW8082A	pg/g										
PCB-107/109	PCB-107/109	SW8082A	pg/g										
PCB-108/112	PCB-108/112	SW8082A	pg/g										
PCB-111/115	PCB-111/115	SW8082A	pg/g										
PCB-12/13	PCB-12/13	SW8082A	pg/g										
PCB-128/162	PCB-128/162	SW8082A	pg/g										
PCB-132/161	PCB-132/161	SW8082A	pg/g										
PCB-133/142	PCB-133/142	SW8082A	pg/g										
PCB-134/143	PCB-134/143	SW8082A	pg/g										
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g										
PCB-139/149	PCB-139/149	SW8082A	pg/g										
PCB-146/165	PCB-146/165	SW8082A	pg/g										
PCB-158/160	PCB-158/160	SW8082A	pg/g										
PCB-16/32	PCB-16/32	SW8082A	pg/g										
PCB-182/187	PCB-182/187	SW8082A	pg/g										
PCB-196/203	PCB-196/203	SW8082A	pg/g										
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g										
PCB-24/27	PCB-24/27	SW8082A	pg/g										
PCB-4/10	PCB-4/10	SW8082A	pg/g										
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g										
PCB-42/59	PCB-42/59	SW8082A	pg/g										
PCB-43/49	PCB-43/49	SW8082A	pg/g										
PCB-48/75	PCB-48/75	SW8082A	pg/g										
PCB-5/8	PCB-5/8	SW8082A	pg/g										
PCB-52/69	PCB-52/69	SW8082A	pg/g										
PCB-56/60	PCB-56/60	SW8082A	pg/g										
PCB-61/70	PCB-61/70	SW8082A	pg/g										
PCB-66/76	PCB-66/76	SW8082A	pg/g										
PCB-7/9	PCB-7/9	SW8082A	pg/g										
PCB-84/92	PCB-84/92	SW8082A	pg/g										
PCB-85/116	PCB-85/116	SW8082A	pg/g										
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g										
PCB-88/91	PCB-88/91	SW8082A	pg/g										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-23		NB01SED049C-24		NB01SED049C-25		NB01SED049C-26		NB01SED049C-27	
			Parent Sample ID										
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	4		10		22		34		48	
			End Depth	6		12		24		36		50	
			Depth Unit	in		in		in		in		in	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g										
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g										
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg										
93-76-5	2,4,5-T	SW8151	ug/kg										
94-75-7	2,4-D	SW8151	ug/kg										
94-82-6	2,4-DB	SW8151	ug/kg										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg										
TEPH	TEPH	8015B	mg/kg									3600	DM
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg									41	M
1461-25-2	Tetrabutyltin	8315M	ug/kg									5.3	UM
56573-85-4	Tributyltin	8315M	ug/kg									70	M
78763-54-9	Monobutyltin	8315M	ug/kg									5.3	UM
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um									0	
0.022	0.022 um	ASTM-D421	um									0	
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um									0	
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um									0	
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um									0	
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um									0	
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um									0	
0.045	0.045 um	ASTM-D421	um									0	
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um									0	
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um									0	
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um									0	
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um									0	
0.079	0.079	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um									0	
0.089	0.089 um	ASTM-D421	um									0	
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um									0	
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um									0	
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um									0	
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um									0	
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um									0	
0.178	0.178 um	ASTM-D421	um									0	
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um									0	
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um									0	
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um									0	
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um									0	
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um									0	
0.356	0.356 um	ASTM-D421	um									0	
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um									0.03	
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um									0.13	
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um									0.35	
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um									0.64	
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um									1.02	
0.710	0.710 um	ASTM-D421	um									1.46	
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um									1.95	

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um									2.47	
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um									3.04	
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um									3.65	
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um									4.33	
1.416	1.416 um	ASTM-D421	um									5.11	
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um									6	
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um									7.06	
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um									55.01	
100.237	100.237 um	ASTM-D421	um									97.48	
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um									100	
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um									59.91	
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um									97.48	
1124.683	1124.683 um	ASTM-D421	um									100	
12.619	12.619 um	ASTM-D421	um									64.7	
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um									97.48	
1261.915	1261.915 um	ASTM-D421	um									100	
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um									69.28	
141.589	141.589 um	ASTM-D421	um									97.48	
1415.892	1415.892 um	ASTM-D421	um									100	
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um									73.58	
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um									97.5	
1588.656	1588.656 um	ASTM-D421	um									100	
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um									77.55	
178.250	178.250 um	ASTM-D421	um									97.6	
1782.502	1782.502 um	ASTM-D421	um									100	
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um									8.3	
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um									9.76	
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um									11.46	
2.825	2.825 um	ASTM-D421	um									13.42	
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um									81.15	
200.000	200.000 um	ASTM-D421	um									97.77	
2000.000	2000.000 um	ASTM-D421	um									100	
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um									84.38	
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um									98.01	
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um									87.22	
251.785	251.785 um	ASTM-D421	um									98.29	
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um									89.7	
282.508	282.508 um	ASTM-D421	um									98.61	
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um									15.67	

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um									18.23	
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um									21.12	
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um									91.8	
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um									98.93	
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um									93.56	
355.656	355.656 um	ASTM-D421	um									99.24	
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um									94.97	
399.052	399.052 um	ASTM-D421	um									99.51	
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um									24.34	
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um									96.05	
447.744	447.744 um	ASTM-D421	um									99.74	
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um									27.91	
5.637	5.637 um	ASTM-D421	um									31.81	
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um									96.81	
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um									99.89	
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um									97.24	
563.677	563.677 um	ASTM-D421	um									99.98	
5754.399	5754.399	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um									36.02	
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um									97.42	
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um									100	
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um									40.51	
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um									45.22	
70.963	70.963 um	ASTM-D421	um									97.47	
709.627	709.627 um	ASTM-D421	um									100	
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um									97.48	
796.214	796.214 um	ASTM-D421	um									100	
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um									50.08	
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um									97.48	
893.367	893.367 um	ASTM-D421	um									100	
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um									2.28	
D[V,0.50]	D[v,0.50]	ASTM-D421	um									8.92	
D[V,0.90]	D[v,0.90]	ASTM-D421	um									28.69	
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g									128	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g									24.4	
30402-15-4	Total PeCDF	E1613B	pg/g									691	I
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g									6350	

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g									361	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g									661	
36088-22-9	Total PeCDD	E1613B	pg/g									106	
37871-00-4	Total HpCDD	E1613B	pg/g									1480	
38998-75-3	Total HcCDF	E1613B	pg/g									914	B
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g									902	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g									9.35	G
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g									8.99	G
41903-57-5	Total TCDD	E1613B	pg/g									236	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g									79.1	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g									25.9	
55684-94-1	Total HxCDF	E1613B	pg/g									609	
55722-27-5	Total TCDF	E1613B	pg/g									993	I
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g									54.8	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g									26.7	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g									49.5	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g									39.6	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g									35.5	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g									582	B
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g									132	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g									9.88	G
Metals													
57-12-5	Cyanide	E200.7	mg/kg									0.47	UM
7429-90-5	Aluminum	E200.7	mg/kg									21800	M
7439-89-6	Iron	E200.7	mg/kg									41000	M
7439-92-1	Lead	E200.7	mg/kg									282	M
7439-95-4	Magnesium	E200.7	mg/kg									9610	M
7439-96-5	Manganese	E200.7	mg/kg									491	M
7439-97-6	Mercury	E200.7	mg/kg									65.9	M
7440-02-0	Nickel	E200.7	mg/kg									61.2	M
7440-09-7	Potassium	E200.7	mg/kg									5180	M
7440-22-4	Silver	E200.7	mg/kg									13.2	M
7440-23-5	Sodium	E200.7	mg/kg									12300	M
7440-28-0	Thallium	E200.7	mg/kg									3.3	JH
7440-32-6	Titanium	E200.7	mg/kg									599	NJH
7440-36-0	Antimony	E200.7	mg/kg									1.9	UNJL
7440-38-2	Arsenic	E200.7	mg/kg									39.1	M

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg									214	M
7440-41-7	Beryllium	E200.7	mg/kg									0.93	BM
7440-43-9	Cadmium	E200.7	mg/kg									8.1	M
7440-47-3	Chromium	E200.7	mg/kg									182	M
7440-48-4	Cobalt	E200.7	mg/kg									13.6	M
7440-50-8	Copper	E200.7	mg/kg									358	M
7440-62-2	Vanadium	E200.7	mg/kg									56.4	M
7440-66-6	Zinc	E200.7	mg/kg									592	M
7440-70-2	Calcium	E200.7	mg/kg									8520	M
7782-49-2	Selenium	E200.7	mg/kg									1.1	UJL
9/7/7440	Potassium	E200.7	mg/kg									5180	M
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg									20	UM
100-42-5	Styrene	E524	ug/kg									20	UM
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg									20	UM
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg									20	UM
106-46-7	1,4-Dichlorobenzene	E524	ug/kg										
107-06-2	1,2-Dichloroethane	E524	ug/kg									20	UM
108-10-1	4-Methyl-2-pentanone	E524	ug/kg									40	UJ
108-88-3	Toluene	E524	ug/kg									20	UM
108-90-7	Chlorobenzene	E524	ug/kg									20	UM
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg										
124-48-1	Dibromochloromethane	E524	ug/kg									20	UM
127-18-4	Tetrachloroethene	E524	ug/kg									20	UM
1330-20-7	Xylenes (TOTAL)	E524	ug/kg									20	UM
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg									20	UM
541-73-1	1,3-Dichlorobenzene	E524	ug/kg										
56-23-5	Carbon Tetrachloride	E524	ug/kg									20	UM
591-78-6	2-Hexanone	E524	ug/kg									40	UJ
67-64-1	Acetone	E524	ug/kg									330	J
67-66-3	Chloroform	E524	ug/kg									20	UM
71-43-2	Benzene	E524	ug/kg									4	G, M
71-55-6	1,1,1-Trichloroethane	E524	ug/kg									20	UM
74-83-9	Bromomethane	E524	ug/kg									20	UM
74-87-3	Chloromethane	E524	ug/kg									20	UJ
75-00-3	Chloroethane	E524	ug/kg									20	UM
75-01-4	Vinyl Chloride	E524	ug/kg									20	UM

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
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			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg									20	UM
75-15-0	Carbon Disulfide	E524	ug/kg									63	M
75-25-2	Bromoform	E524	ug/kg									20	UM
75-27-4	Bromodichloromethane	E524	ug/kg									20	UM
75-34-3	1,1-Dichloroethane	E524	ug/kg									20	UM
75-35-4	1,1-Dichloroethene	E524	ug/kg									20	UM
78-87-5	1,2-Dichloropropane	E524	ug/kg									20	UM
78-93-3	2-Butanone	E524	ug/kg									69	J
79-00-5	1,1,2-Trichloroethane	E524	ug/kg									20	UM
79-01-6	Trichloroethene	E524	ug/kg									20	UM
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg									20	UJ
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg										
95-50-1	1,2-Dichlorobenzene	E524	ug/kg										
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg									2700	UDM
100-02-7	4-Nitrophenol	E625	ug/kg									4100	UDM
100-52-7	Benzaldehyde	E625	ug/kg										
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg									1400	UDM
105-60-2	Caprolactam	E625	ug/kg										
105-67-9	2,4-Dimethylphenol	E625	ug/kg									1400	UDM
106-44-5	4-Methylphenol	E625	ug/kg									1400	UDM
106-46-7	1,4-Dichlorobenzene	E625	ug/kg									1400	UDM
106-47-8	4-Chloroaniline	E625	ug/kg									1400	UDJL
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg									1400	UDM
108-95-2	Phenol	E625	ug/kg									1400	UDM
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg									1400	UDM
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg									1400	UDM
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg									47000	DJ
117-84-0	Di-n-octylphthalate	E625	ug/kg									1400	UDM
118-74-1	Hexachlorobenzene	E625	ug/kg									1400	UDM
120-12-7	Anthracene	E625	ug/kg									1500	DM
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg									1400	UDM
120-83-2	2,4-Dichlorophenol	E625	ug/kg									1400	UDM
121-14-2	2,4-Dinitrotoluene	E625	ug/kg									1400	UDM
129-00-0	Pyrene	E625	ug/kg									10000	DJ
131-11-3	Dimethylphthalate	E625	ug/kg									1400	UDM
132-64-9	Dibenzofuran	E625	ug/kg									360	G, D, M

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			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
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			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg										
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg									2200	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg									1800	DM
205-99-2	Benzo(b)fluoranthene	E625	ug/kg									5400	DJ
206-44-0	Fluoranthene	E625	ug/kg									10000	DJ
207-08-9	Benzo(k)fluoranthene	E625	ug/kg									1800	DJ
208-96-8	Acenaphthylene	E625	ug/kg									540	G, D, M
218-01-9	Chrysene	E625	ug/kg									3700	DJ
50-32-8	Benzo(a)pyrene	E625	ug/kg									3500	DJ
51-28-5	2,4-Dinitrophenol	E625	ug/kg									6800	UDM
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg									4100	UDM
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg									510	G, D, M
541-73-1	1,3-Dichlorobenzene	E625	ug/kg									1400	UDM
56-55-3	Benzo(a)anthracene	E625	ug/kg									2600	DJ
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg										
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg									1400	UDM
606-20-2	2,6-Dinitrotoluene	E625	ug/kg									1400	UDM
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg									1400	UDM
67-72-1	Hexachloroethane	E625	ug/kg									1400	UDM
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg									1400	UDM
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg									4100	UDM
78-59-1	Isophorone	E625	ug/kg									1400	UDM
83-32-9	Acenaphthene	E625	ug/kg									420	G, D, M
84-66-2	Diethylphthalate	E625	ug/kg									1400	UDM
84-74-2	Di-n-butylphthalate	E625	ug/kg									1400	UDM
85-01-8	Phenanthrene	E625	ug/kg									2400	DM
85-68-7	Butylbenzylphthalate	E625	ug/kg									1400	UDM
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg									310	G, D, M
86-73-7	Fluorene	E625	ug/kg									480	G, D, M
86-74-8	Carbazole	E625	ug/kg									360	G, D, M
87-68-3	Hexachlorobutadiene	E625	ug/kg									1400	UDM
87-86-5	Pentachlorophenol	E625	ug/kg									4100	UDM
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg									1400	UDM
88-74-4	2-Nitroaniline	E625	ug/kg									1400	UDM
88-75-5	2-Nitrophenol	E625	ug/kg									1400	UDM
91-20-3	Naphthalene	E625	ug/kg									620	G, D, M
91-57-6	2-Methylnaphthalene	E625	ug/kg									1400	UDM

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg									1400	UDM
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg									2700	UDJL
92-52-4	1,1'-Biphenyl	E625	ug/kg										
95-48-7	2-Methylphenol	E625	ug/kg									1400	UDM
95-50-1	1,2-Dichlorobenzene	E625	ug/kg									1400	UDM
95-57-8	2-Chlorophenol	E625	ug/kg									1400	UDM
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg										
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg									1400	UDM
98-86-2	Acetophenone	E625	ug/kg										
98-95-3	Nitrobenzene	E625	ug/kg									1400	UDM
99-09-2	3-Nitroaniline	E625	ug/kg									2700	UDM
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%									62.6	
SG	Specific Gravity	MISC	sg										
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg									41000	M
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g	0.148		0.102		0.14					
13966-02-4	Beryllium-7	RadChem	pci/g							3.43			
14255-04-0	Lead-210	RadChem	pci/g	2.05		1.33		2.29					
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg									23	UDM
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg									44	UDM
309-00-2	Aldrin	SW8080	ug/kg									23	UDM
319-84-6	alpha-BHC	SW8080	ug/kg									2.6	G,P,D,N,J
319-85-7	beta-BHC	SW8080	ug/kg									23	DU
319-86-8	delta-BHC	SW8080	ug/kg									23	UDM
33213-65-9	Endosulfan II	SW8080	ug/kg									44	UDM
3424-82-6	2,4'-DDE	SW8080	ug/kg										
50-29-3	4,4'-DDT	SW8080	ug/kg									44	UDM
5103-71-9	alpha-Chlordane	SW8080	ug/kg									23	UDM
5103-74-2	gamma-Chlordane	SW8080	ug/kg									23	UDM
53-19-0	2,4'-DDD	SW8080	ug/kg										
53494-70-5	Endrin Ketone	SW8080	ug/kg									44	UDM
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg									23	UDM
60-57-1	Dieldrin	SW8080	ug/kg									44	UDM
72-20-8	Endrin	SW8080	ug/kg									44	UDM

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg									230	UDM
72-54-8	4,4'-DDD	SW8080	ug/kg									63	UDJ
72-55-9	4,4'-DDE	SW8080	ug/kg									52	PDJ
7421-93-4	Endrin aldehyde	SW8080	ug/kg									44	UDM
76-44-8	Heptachlor	SW8080	ug/kg									23	UDM
789-02-6	2,4'-DDT	SW8080	ug/kg										
8001-35-2	Toxaphene	SW8080	ug/kg									2300	UDM
959-98-8	Endosulfan I	SW8080	ug/kg									23	UDM
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg									260	UDM
11096-82-5	Aroclor 1260	SW8081	ug/kg									760	DJ
11097-69-1	Aroclor 1254	SW8081	ug/kg									1400	DM
11104-28-2	Aroclor 1221	SW8081	ug/kg									260	UDM
11141-16-5	Aroclor 1232	SW8081	ug/kg									260	UDM
12672-29-6	Aroclor 1248	SW8081	ug/kg									1500	DM
12674-11-2	Aroclor 1016	SW8081	ug/kg									260	UDM
37324-23-5	Aroclor 1262	SW8081	ug/kg									260	UDM
53469-21-9	Aroclor 1242	SW8081	ug/kg									260	UDM
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g									361	DJ
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g									282	DJ
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g									74100	DJ
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g									11600	DJ
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g									33400	DJ
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g									4340	D
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g									2180	DJ
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g									413	DJ
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g									1440	DJ
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g									3380	D
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g									21800	DJ
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g									9700	DJ
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g									6560	DJ
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g									21800	DJ
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g									23400	DJ
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g									41.4	UDJ
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g									491	D
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g									41.4	UDJ

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g									41.4	UDJ
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g									291	DJ
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g									82.8	UDJ
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g									70800	DJ
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g									52300	DJ
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g									19800	DJ
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g									41.4	UDJ
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g									2720	DJ
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g									13300	D
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g									51800	DJ
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g									23400	DJ
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g									500	DJ
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g									2110	DJ
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g									37700	DJ
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g									86700	DJ
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g									5920	DJ
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g									11200	DJ
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g									23600	DJ
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g									5010	DJ
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g									16200	DJ
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g									25700	DJ
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g									70.8	DJ
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g									187	DJ
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g									22500	DJ
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g									11500	DJ
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g									1030	DJ
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g									743	DJ
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g									41.4	UDJ
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g									888	DJ
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g									1040	DJ
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g									1950	D
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g									8090	D
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g									225	DJ
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g									4130	DJ
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g									63100	DJ
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g									10500	DJ
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g									4330	DJ

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g									652	DJ
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g									215	DJ
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g									24100	DJ
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g									8610	DJ
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g									19400	DJ
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g									11800	DJ
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g									3150	DJ
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g									4230	DJ
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g									5080	DJ
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g									13900	DJ
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g									13500	DJ
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g									5550	DJ
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g									2520	DJ
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g									1760	D
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g									3550	DJ
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g									14800	D
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g									2240	D
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g									5540	D
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g									832	D
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g									14000	DJ
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g									2710	DJ
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g									10500	DJ
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g									447	DJ
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g									41.4	UDJ
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g									2630	DJ
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g									476	DJ
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g									10500	DJ
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g									77.5	DJ
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g									55.6	DJ
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g									2380	DJ
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g									41.4	UDJ
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g									372	DJ
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g									456	DJ
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g									136	DJ
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g									54.6	DJ
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g									1170	DJ
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g									2190	DJ

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g									41.4	UDJ
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g									224	DJ
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g									1140	DJ
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g									4230	DJ
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g									344	DJ
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g									87.2	DJ
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g									243	DJ
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g									187	DJ
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g									2170	DJ
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g									3840	DJ
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g									486	DJ
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g									781	D
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g									1230	DJ
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g									2470	DJ
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g									87200	DJ
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g									9900	DJ
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g									41.4	UDJ
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g									189	DJ
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g									343	DJ
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g									2630	DJ
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g									380	DJ
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g									1810	DJ
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g									693	DJ
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g									579	DJ
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g									41.4	UDJ
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g									1230	DJ
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g									41.4	UDJ
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g									724	DJ
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g									2050	DJ
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g									1390	DJ
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g									27.4	D, G, J
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g									190	DJ
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g									123	DJ
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g									64.5	DJ
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g									9.8	D, G, J
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g									812	DJ
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g									41.4	UDJ

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g									12.8	D, G
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g									562	D
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g									118	DJ
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g									879	DJ
PCB-106/118	PCB-106/118	SW8082A	pg/g									60200	DJ
PCB-107/109	PCB-107/109	SW8082A	pg/g									4790	DJ
PCB-108/112	PCB-108/112	SW8082A	pg/g									3880	DJ
PCB-111/115	PCB-111/115	SW8082A	pg/g									1430	DJ
PCB-12/13	PCB-12/13	SW8082A	pg/g									7540	DJ
PCB-128/162	PCB-128/162	SW8082A	pg/g									9250	DJ
PCB-132/161	PCB-132/161	SW8082A	pg/g									19400	DJ
PCB-133/142	PCB-133/142	SW8082A	pg/g									1970	DJ
PCB-134/143	PCB-134/143	SW8082A	pg/g									3160	DJ
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g									69300	DJ
PCB-139/149	PCB-139/149	SW8082A	pg/g									68500	DJ
PCB-146/165	PCB-146/165	SW8082A	pg/g									10800	DJ
PCB-158/160	PCB-158/160	SW8082A	pg/g									7460	DJ
PCB-16/32	PCB-16/32	SW8082A	pg/g									32600	DJ
PCB-182/187	PCB-182/187	SW8082A	pg/g									33700	DJ
PCB-196/203	PCB-196/203	SW8082A	pg/g									15500	D
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g									35500	DJ
PCB-24/27	PCB-24/27	SW8082A	pg/g									4900	DJ
PCB-4/10	PCB-4/10	SW8082A	pg/g									11500	DJ
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g									54700	DJ
PCB-42/59	PCB-42/59	SW8082A	pg/g									22400	DJ
PCB-43/49	PCB-43/49	SW8082A	pg/g									55500	DJ
PCB-48/75	PCB-48/75	SW8082A	pg/g									13900	DJ
PCB-5/8	PCB-5/8	SW8082A	pg/g									30400	DJ
PCB-52/69	PCB-52/69	SW8082A	pg/g									72700	DJ
PCB-56/60	PCB-56/60	SW8082A	pg/g									30900	DJ
PCB-61/70	PCB-61/70	SW8082A	pg/g									57900	DJ
PCB-66/76	PCB-66/76	SW8082A	pg/g									49200	DJ
PCB-7/9	PCB-7/9	SW8082A	pg/g									2810	DJ
PCB-84/92	PCB-84/92	SW8082A	pg/g									33600	DJ
PCB-85/116	PCB-85/116	SW8082A	pg/g									12600	DJ
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g									27400	DJ
PCB-88/91	PCB-88/91	SW8082A	pg/g									12900	DJ

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			Sample Location	NB01SED049		NB01SED049		NB01SED049		NB01SED049		NB01SED049	
			Sample ID	NB01SED049C-28		NB01SED049C-29		NB01SED049C-30		NB01SED049D-21		NB01SEDDUP011	
			Parent Sample ID									NB01SED049C-01	
			Sample Date	11/17/2005		11/17/2005		11/17/2005		11/17/2005		11/17/2005	
			Start Depth	62		76		12		0		0	
			End Depth	64		78		20		1		0.5	
			Depth Unit	in		in		in		in		ft	
			Type	N		N		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g									81900	DJ
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g									62600	DJ
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg									800	UDM
93-76-5	2,4,5-T	SW8151	ug/kg									800	DUJ
94-75-7	2,4-D	SW8151	ug/kg									1900	UDJ
94-82-6	2,4-DB	SW8151	ug/kg									1500	UDM

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg							1100	B,D,M	2100	B,D,M
TEPH	TEPH	8015B	mg/kg										
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg										
1461-25-2	Tetrabutyltin	8315M	ug/kg										
56573-85-4	Tributyltin	8315M	ug/kg										
78763-54-9	Monobutyltin	8315M	ug/kg										
Grain Size Distribution													
0.01	0.01	ASTM-D421	um							0			
0.011	0.011	ASTM-D421	um							0			
0.013	0.013	ASTM-D421	um							0			
0.015	0.015	ASTM-D421	um							0			
0.017	0.017	ASTM-D421	um							0			
0.02	0.02	ASTM-D421	um							0			
0.020	0.020 um	ASTM-D421	um										
0.022	0.022 um	ASTM-D421	um										
0.023	0.023	ASTM-D421	um							0			
0.025	0.025 um	ASTM-D421	um										
0.026	0.026	ASTM-D421	um							0			
0.028	0.028 um	ASTM-D421	um										
0.03	0.03	ASTM-D421	um							0			
0.032	0.032 um	ASTM-D421	um										
0.035	0.035	ASTM-D421	um							0			
0.036	0.036 um	ASTM-D421	um										
0.04	0.04	ASTM-D421	um							0			
0.040	0.040 um	ASTM-D421	um										
0.045	0.045 um	ASTM-D421	um										
0.046	0.046	ASTM-D421	um							0			
0.050	0.050 um	ASTM-D421	um										
0.052	0.052	ASTM-D421	um							0			
0.056	0.056 um	ASTM-D421	um										
0.06	0.06	ASTM-D421	um							0			
0.063	0.063 um	ASTM-D421	um										
0.069	0.069	ASTM-D421	um							0			
0.071	0.071 um	ASTM-D421	um										
0.079	0.079	ASTM-D421	um							0			

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um										
0.089	0.089 um	ASTM-D421	um										
0.091	0.091	ASTM-D421	um							0			
0.100	0.100 um	ASTM-D421	um										
0.105	0.105	ASTM-D421	um							0			
0.112	0.112 um	ASTM-D421	um										
0.12	0.12	ASTM-D421	um							0			
0.126	0.126 um	ASTM-D421	um										
0.138	0.138	ASTM-D421	um							0			
0.142	0.142 um	ASTM-D421	um										
0.158	0.158	ASTM-D421	um							0			
0.159	0.159 um	ASTM-D421	um										
0.178	0.178 um	ASTM-D421	um										
0.182	0.182	ASTM-D421	um							0			
0.200	0.200 um	ASTM-D421	um										
0.209	0.209	ASTM-D421	um							0			
0.224	0.224 um	ASTM-D421	um										
0.24	0.24	ASTM-D421	um							0			
0.252	0.252 um	ASTM-D421	um										
0.275	0.275	ASTM-D421	um							0			
0.283	0.283 um	ASTM-D421	um										
0.316	0.316	ASTM-D421	um							0.004875			
0.317	0.317 um	ASTM-D421	um										
0.356	0.356 um	ASTM-D421	um										
0.363	0.363	ASTM-D421	um							0.082073			
0.399	0.399 um	ASTM-D421	um										
0.417	0.417	ASTM-D421	um							0.247275			
0.448	0.448 um	ASTM-D421	um										
0.479	0.479	ASTM-D421	um							0.385317			
0.502	0.502 um	ASTM-D421	um										
0.55	0.55	ASTM-D421	um							0.487213			
0.564	0.564 um	ASTM-D421	um										
0.631	0.631	ASTM-D421	um							0.559601			
0.632	0.632 um	ASTM-D421	um										
0.710	0.710 um	ASTM-D421	um										
0.724	0.724	ASTM-D421	um							0.600114			
0.796	0.796 um	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um							0.619979			
0.893	0.893 um	ASTM-D421	um										
0.955	0.955	ASTM-D421	um							0.633808			
1.002	1.002 um	ASTM-D421	um										
1.096	1.096	ASTM-D421	um							0.660424			
1.125	1.125 um	ASTM-D421	um										
1.259	1.259	ASTM-D421	um							0.719139			
1.262	1.262 um	ASTM-D421	um										
1.416	1.416 um	ASTM-D421	um										
1.445	1.445	ASTM-D421	um							0.823242			
1.589	1.589 um	ASTM-D421	um										
1.66	1.66	ASTM-D421	um							0.980271			
1.783	1.783 um	ASTM-D421	um										
1.905	1.905	ASTM-D421	um							1.188335			
10	10	ASTM-D421	um							4.726076			
10.024	10.024 um	ASTM-D421	um										
100.237	100.237 um	ASTM-D421	um										
10000	10000	ASTM-D421	um							0			
1002.374	1002.374 um	ASTM-D421	um										
104.713	104.713	ASTM-D421	um							1.120145			
1096.478	1096.478	ASTM-D421	um							0.070168			
11.247	11.247 um	ASTM-D421	um										
11.482	11.482	ASTM-D421	um							4.668873			
112.468	112.468 um	ASTM-D421	um										
1124.683	1124.683 um	ASTM-D421	um										
12.619	12.619 um	ASTM-D421	um										
120.226	120.226	ASTM-D421	um							0.989327			
1258.925	1258.925	ASTM-D421	um							0.039605			
126.191	126.191 um	ASTM-D421	um										
1261.915	1261.915 um	ASTM-D421	um										
13.183	13.183	ASTM-D421	um							4.519439			
138.038	138.038	ASTM-D421	um							0.859323			
14.159	14.159 um	ASTM-D421	um										
141.589	141.589 um	ASTM-D421	um										
1415.892	1415.892 um	ASTM-D421	um										
1445.44	1445.44	ASTM-D421	um							0.026432			
15.136	15.136	ASTM-D421	um							4.29418			

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um										
158.489	158.489	ASTM-D421	um							0.739603			
158.866	158.866 um	ASTM-D421	um										
1588.656	1588.656 um	ASTM-D421	um										
1659.587	1659.587	ASTM-D421	um							0.015242			
17.378	17.378	ASTM-D421	um							4.006319			
17.825	17.825 um	ASTM-D421	um										
178.250	178.250 um	ASTM-D421	um										
1782.502	1782.502 um	ASTM-D421	um										
181.97	181.97	ASTM-D421	um							0.630829			
19.953	19.953	ASTM-D421	um							3.683044			
1905.461	1905.461	ASTM-D421	um							0.00336			
2.000	2.000 um	ASTM-D421	um										
2.188	2.188	ASTM-D421	um							1.445185			
2.244	2.244 um	ASTM-D421	um										
2.512	2.512	ASTM-D421	um							1.74775			
2.518	2.518 um	ASTM-D421	um										
2.825	2.825 um	ASTM-D421	um										
2.884	2.884	ASTM-D421	um							2.091671			
20.000	20.000 um	ASTM-D421	um										
200.000	200.000 um	ASTM-D421	um										
2000.000	2000.000 um	ASTM-D421	um										
208.93	208.93	ASTM-D421	um							0.537732			
2187.762	2187.762	ASTM-D421	um							0			
22.440	22.440 um	ASTM-D421	um										
22.909	22.909	ASTM-D421	um							3.341216			
224.404	224.404 um	ASTM-D421	um										
239.883	239.883	ASTM-D421	um							0.457494			
25.179	25.179 um	ASTM-D421	um										
251.785	251.785 um	ASTM-D421	um										
2511.886	2511.886	ASTM-D421	um							0			
26.303	26.303	ASTM-D421	um							3.00587			
275.423	275.423	ASTM-D421	um							0.39199			
28.251	28.251 um	ASTM-D421	um										
282.508	282.508 um	ASTM-D421	um										
2884.032	2884.032	ASTM-D421	um							0			
3.170	3.170 um	ASTM-D421	um										

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um							2.47037			
3.557	3.557 um	ASTM-D421	um										
3.802	3.802	ASTM-D421	um							2.869079			
3.991	3.991 um	ASTM-D421	um										
30.2	30.2	ASTM-D421	um							2.690163			
31.698	31.698 um	ASTM-D421	um										
316.228	316.228	ASTM-D421	um							0.338917			
316.979	316.979 um	ASTM-D421	um										
3311.311	3311.311	ASTM-D421	um							0			
34.674	34.674	ASTM-D421	um							2.407941			
35.566	35.566 um	ASTM-D421	um										
355.656	355.656 um	ASTM-D421	um										
363.078	363.078	ASTM-D421	um							0.297685			
3801.894	3801.894	ASTM-D421	um							0			
39.811	39.811	ASTM-D421	um							2.163557			
39.905	39.905 um	ASTM-D421	um										
399.052	399.052 um	ASTM-D421	um										
4.365	4.365	ASTM-D421	um							3.276055			
4.477	4.477 um	ASTM-D421	um										
416.869	416.869	ASTM-D421	um							0.265213			
4365.158	4365.158	ASTM-D421	um							0			
44.774	44.774 um	ASTM-D421	um										
447.744	447.744 um	ASTM-D421	um										
45.709	45.709	ASTM-D421	um							1.957168			
478.63	478.63	ASTM-D421	um							0.238719			
5.012	5.012	ASTM-D421	um							3.666335			
5.024	5.024 um	ASTM-D421	um										
5.637	5.637 um	ASTM-D421	um										
5.754	5.754	ASTM-D421	um							4.02509			
50.238	50.238 um	ASTM-D421	um										
5011.872	5011.872	ASTM-D421	um							0			
502.377	502.377 um	ASTM-D421	um										
52.481	52.481	ASTM-D421	um							1.783989			
549.541	549.541	ASTM-D421	um							0.214516			
56.368	56.368 um	ASTM-D421	um										
563.677	563.677 um	ASTM-D421	um										
5754.399	5754.399	ASTM-D421	um							0			

Table A-2-1
Sediment Data
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Tierra Solutions 2008

			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um										
6.607	6.607	ASTM-D421	um							4.323919			
60.256	60.256	ASTM-D421	um							1.634956			
63.246	63.246 um	ASTM-D421	um										
630.957	630.957	ASTM-D421	um							0.190799			
632.456	632.456 um	ASTM-D421	um										
6606.934	6606.934	ASTM-D421	um							0			
69.183	69.183	ASTM-D421	um							1.502246			
7.096	7.096 um	ASTM-D421	um										
7.586	7.586	ASTM-D421	um							4.550795			
7.962	7.962 um	ASTM-D421	um										
70.963	70.963 um	ASTM-D421	um										
709.627	709.627 um	ASTM-D421	um										
724.436	724.436	ASTM-D421	um							0.16517			
7585.776	7585.776	ASTM-D421	um							0			
79.433	79.433	ASTM-D421	um							1.375629			
79.621	79.621 um	ASTM-D421	um										
796.214	796.214 um	ASTM-D421	um										
8.71	8.71	ASTM-D421	um							4.686111			
8.934	8.934 um	ASTM-D421	um										
831.764	831.764	ASTM-D421	um							0.14072			
8709.636	8709.636	ASTM-D421	um							0			
89.337	89.337 um	ASTM-D421	um										
893.367	893.367 um	ASTM-D421	um										
91.201	91.201	ASTM-D421	um							1.250186			
954.993	954.993	ASTM-D421	um							0.112138			
d (0.1)	d (0.1)	ASTM-D421	um							2.634			
d (0.5)	d (0.5)	ASTM-D421	um							12.224			
d (0.9)	d (0.9)	ASTM-D421	um							83.162			
D[V,0.10]	D[v,0.10]	ASTM-D421	um										
D[V,0.50]	D[v,0.50]	ASTM-D421	um										
D[V,0.90]	D[v,0.90]	ASTM-D421	um										
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g							96.3		449	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g							16.3		21.1	
30402-15-4	Total PeCDF	E1613B	pg/g							362	P	613	P
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g							4460		5810	

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g							292		394	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g							455		641	
36088-22-9	Total PeCDD	E1613B	pg/g							109		118	
37871-00-4	Total HpCDD	E1613B	pg/g							1110		1670	
38998-75-3	Total HcCDF	E1613B	pg/g							696		885	
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g							791		858	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g							7.5		8.44	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g							8.79		9.83	
41903-57-5	Total TCDD	E1613B	pg/g							261		578	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g							26.1		45.7	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g							19.6		23.6	
55684-94-1	Total HxCDF	E1613B	pg/g							459		583	
55722-27-5	Total TCDF	E1613B	pg/g							546	P	842	P
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g							21.6		31.6	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g							14.1		21.7	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g							30.9		44.1	
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g							28.4		38	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g							13.4		19.7	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g							467		571	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g							101		120	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g							1.58	U	2.39	G
Metals													
57-12-5	Cyanide	E200.7	mg/kg							3.1	U	2.8	U
7429-90-5	Aluminum	E200.7	mg/kg							19600	M	20300	M
7439-89-6	Iron	E200.7	mg/kg							45900	M	43500	M
7439-92-1	Lead	E200.7	mg/kg							219	N,JL	262	N,JL
7439-95-4	Magnesium	E200.7	mg/kg							11000	M	10500	M
7439-96-5	Manganese	E200.7	mg/kg							598	M	524	M
7439-97-6	Mercury	E200.7	mg/kg							38.8	M	94.2	M
7440-02-0	Nickel	E200.7	mg/kg							47.1	M	57.5	M
7440-09-7	Potassium	E200.7	mg/kg							3910	M	3670	M
7440-22-4	Silver	E200.7	mg/kg							5.2	N,JL	12.5	N,JL
7440-23-5	Sodium	E200.7	mg/kg							15800	E,J	14100	E,J
7440-28-0	Thallium	E200.7	mg/kg							1.5	U	1.4	U
7440-32-6	Titanium	E200.7	mg/kg							558	M	526	M
7440-36-0	Antimony	E200.7	mg/kg							7.7	N,UJL	7.1	N,UJL
7440-38-2	Arsenic	E200.7	mg/kg							27.6	M	43.8	M

Table A-2-1
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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg							198	M	185	M
7440-41-7	Beryllium	E200.7	mg/kg							0.87	B,M	0.87	B,M
7440-43-9	Cadmium	E200.7	mg/kg							2.3	M	5.2	M
7440-47-3	Chromium	E200.7	mg/kg							133	M	196	M
7440-48-4	Cobalt	E200.7	mg/kg							13.9	M	14	M
7440-50-8	Copper	E200.7	mg/kg							219	M	340	M
7440-62-2	Vanadium	E200.7	mg/kg							55.9	M	56.3	M
7440-66-6	Zinc	E200.7	mg/kg							458	E,J	569	E,J
7440-70-2	Calcium	E200.7	mg/kg							9970	M	10100	M
7782-49-2	Selenium	E200.7	mg/kg							0.93	B,N,JL	0.97	B,N,JL
9/7/7440	Potassium	E200.7	mg/kg							3910	M	3670	M
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg										
100-42-5	Styrene	E524	ug/kg										
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg										
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg										
106-46-7	1,4-Dichlorobenzene	E524	ug/kg									20	U,M
107-06-2	1,2-Dichloroethane	E524	ug/kg										
108-10-1	4-Methyl-2-pentanone	E524	ug/kg										
108-88-3	Toluene	E524	ug/kg										
108-90-7	Chlorobenzene	E524	ug/kg									20	U,M
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg									20	U,M
124-48-1	Dibromochloromethane	E524	ug/kg										
127-18-4	Tetrachloroethene	E524	ug/kg										
1330-20-7	Xylenes (TOTAL)	E524	ug/kg										
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg										
541-73-1	1,3-Dichlorobenzene	E524	ug/kg									20	U,M
56-23-5	Carbon Tetrachloride	E524	ug/kg										
591-78-6	2-Hexanone	E524	ug/kg										
67-64-1	Acetone	E524	ug/kg										
67-66-3	Chloroform	E524	ug/kg										
71-43-2	Benzene	E524	ug/kg										
71-55-6	1,1,1-Trichloroethane	E524	ug/kg										
74-83-9	Bromomethane	E524	ug/kg										
74-87-3	Chloromethane	E524	ug/kg										
75-00-3	Chloroethane	E524	ug/kg										
75-01-4	Vinyl Chloride	E524	ug/kg										

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg										
75-15-0	Carbon Disulfide	E524	ug/kg										
75-25-2	Bromoform	E524	ug/kg										
75-27-4	Bromodichloromethane	E524	ug/kg										
75-34-3	1,1-Dichloroethane	E524	ug/kg										
75-35-4	1,1-Dichloroethene	E524	ug/kg										
78-87-5	1,2-Dichloropropane	E524	ug/kg										
78-93-3	2-Butanone	E524	ug/kg										
79-00-5	1,1,2-Trichloroethane	E524	ug/kg										
79-01-6	Trichloroethene	E524	ug/kg										
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg										
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg									20	U,M
95-50-1	1,2-Dichlorobenzene	E524	ug/kg									20	U,M
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg							1000	U,M	940	U,M
100-02-7	4-Nitrophenol	E625	ug/kg							1000	U,M	940	U,M
100-52-7	Benzaldehyde	E625	ug/kg							130	G,M	110	G,M
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg							530	UJ	490	UJ
105-60-2	Caprolactam	E625	ug/kg							530	U,M	490	U,M
105-67-9	2,4-Dimethylphenol	E625	ug/kg							530	U,M	490	U,M
106-44-5	4-Methylphenol	E625	ug/kg							530	U,M	490	U,M
106-46-7	1,4-Dichlorobenzene	E625	ug/kg										
106-47-8	4-Chloroaniline	E625	ug/kg							530	U,M	490	U,M
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg							530	U,M	490	U,M
108-95-2	Phenol	E625	ug/kg							530	U,M	490	U,M
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg							530	U,M	490	U,M
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg							530	U,M	490	U,M
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg							10000	E,B,J	20000	E,B,J
117-84-0	Di-n-octylphthalate	E625	ug/kg							170	G,J	270	G,J
118-74-1	Hexachlorobenzene	E625	ug/kg							13	U,M	38	U,D,M
120-12-7	Anthracene	E625	ug/kg							420	G,M	760	M
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg										
120-83-2	2,4-Dichlorophenol	E625	ug/kg							530	U,M	490	U,M
121-14-2	2,4-Dinitrotoluene	E625	ug/kg							530	U,M	490	U,M
129-00-0	Pyrene	E625	ug/kg							1800	M	5000	M
131-11-3	Dimethylphthalate	E625	ug/kg							530	U,M	490	U,M
132-64-9	Dibenzofuran	E625	ug/kg							99	G,M	170	G,M

Table A-2-1
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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg							530	U,M	490	U,M
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg							410	G,M	560	M
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg							410	G,M	540	M
205-99-2	Benzo(b)fluoranthene	E625	ug/kg							1900	M	2500	M
206-44-0	Fluoranthene	E625	ug/kg							3500	M	9100	E,J
207-08-9	Benzo(k)fluoranthene	E625	ug/kg							1100	J	2400	J
208-96-8	Acenaphthylene	E625	ug/kg							74	D,M	100	D,M
218-01-9	Chrysene	E625	ug/kg							1500	M	2000	M
50-32-8	Benzo(a)pyrene	E625	ug/kg							1100	M	1700	M
51-28-5	2,4-Dinitrophenol	E625	ug/kg							1000	U,M	940	U,M
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg							1000	U,M	940	U,M
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg							120	G,M	170	G,M
541-73-1	1,3-Dichlorobenzene	E625	ug/kg										
56-55-3	Benzo(a)anthracene	E625	ug/kg							1100	M	1600	M
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg							530	U,M	490	U,M
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg							530	U,M	490	U,M
606-20-2	2,6-Dinitrotoluene	E625	ug/kg							530	U,M	490	U,M
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg							530	U,M	490	U,M
67-72-1	Hexachloroethane	E625	ug/kg							530	U,M	490	U,M
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg							530	U,M	490	U,M
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg								R		R
78-59-1	Isophorone	E625	ug/kg							530	U,M	490	U,M
83-32-9	Acenaphthene	E625	ug/kg							170	G,M	450	G,M
84-66-2	Diethylphthalate	E625	ug/kg							530	U,M	490	U,M
84-74-2	Di-n-butylphthalate	E625	ug/kg							530	U,M	120	G,M
85-01-8	Phenanthrene	E625	ug/kg							740	M	860	M
85-68-7	Butylbenzylphthalate	E625	ug/kg							110	G,M	140	G,M
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg							530	U,M	490	U,M
86-73-7	Fluorene	E625	ug/kg							140	G,M	180	D,M
86-74-8	Carbazole	E625	ug/kg							96	G,M	150	G,M
87-68-3	Hexachlorobutadiene	E625	ug/kg							530	U,M	490	U,M
87-86-5	Pentachlorophenol	E625	ug/kg							26	UJ	76	D,UJ
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg							530	U,M	490	U,M
88-74-4	2-Nitroaniline	E625	ug/kg							1000	U,M	940	U,M
88-75-5	2-Nitrophenol	E625	ug/kg							530	U,M	490	U,M
91-20-3	Naphthalene	E625	ug/kg							150	G,M	300	B,D,M
91-57-6	2-Methylnaphthalene	E625	ug/kg							71	D,M	140	D,M

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg							530	U,M	490	U,M
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg							530	U,M	490	U,M
92-52-4	1,1'-Biphenyl	E625	ug/kg							530	U,M	50	G,M
95-48-7	2-Methylphenol	E625	ug/kg							530	U,M	490	U,M
95-50-1	1,2-Dichlorobenzene	E625	ug/kg										
95-57-8	2-Chlorophenol	E625	ug/kg							530	U,M	490	U,M
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg							530	U,M	490	U,M
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg							530	U,M	490	U,M
98-86-2	Acetophenone	E625	ug/kg							260	G,M	120	G,M
98-95-3	Nitrobenzene	E625	ug/kg							530	U,M	490	U,M
99-09-2	3-Nitroaniline	E625	ug/kg							1000	U,M	940	U,M
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%							208.5		184.2	
SG	Specific Gravity	MISC	sg							2.671		2.705	
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg							42000	M	42000	M
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g			0.121							
13966-02-4	Beryllium-7	RadChem	pci/g	3.76				3.95					
14255-04-0	Lead-210	RadChem	pci/g			2.12							
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg							5.2	U		R
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg							10	U,M	9.5	U,M
309-00-2	Aldrin	SW8080	ug/kg							5.3	M	6.9	P,NJ
319-84-6	alpha-BHC	SW8080	ug/kg							5.4	M	1.2	G,P,J
319-85-7	beta-BHC	SW8080	ug/kg							76	D,J	3.9	G,P,J
319-86-8	delta-BHC	SW8080	ug/kg							5.2	U	4.8	U,M
33213-65-9	Endosulfan II	SW8080	ug/kg							10	U,M	9.5	U
3424-82-6	2,4'-DDE	SW8080	ug/kg							10	U	14	P,NJ
50-29-3	4,4'-DDT	SW8080	ug/kg							10	U	11	P,NJ
5103-71-9	alpha-Chlordane	SW8080	ug/kg							6.6	M	8.9	M
5103-74-2	gamma-Chlordane	SW8080	ug/kg							6.5	P,J	12	P,NJ
53-19-0	2,4'-DDD	SW8080	ug/kg							10	U	12	P,J
53494-70-5	Endrin Ketone	SW8080	ug/kg							10	U	9.5	U
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg							5.2	U,M	4.8	U
60-57-1	Dieldrin	SW8080	ug/kg							4	G,M	9.5	U
72-20-8	Endrin	SW8080	ug/kg							10	U,M	9.5	U

Table A-2-1
Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg							52	U,M	48	U,M
72-54-8	4,4'-DDD	SW8080	ug/kg							29	M	32	M
72-55-9	4,4'-DDE	SW8080	ug/kg							20	M	39	P,J
7421-93-4	Endrin aldehyde	SW8080	ug/kg							10	U	9.5	U
76-44-8	Heptachlor	SW8080	ug/kg							5.2	U,M	5.9	P,J
789-02-6	2,4'-DDT	SW8080	ug/kg							10	U,M	9.4	U
8001-35-2	Toxaphene	SW8080	ug/kg							520	U,M	480	U,M
959-98-8	Endosulfan I	SW8080	ug/kg							5.2	U,M	4.8	U
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg							100	U,M	95	U,M
11096-82-5	Aroclor 1260	SW8081	ug/kg							140	M	290	M
11097-69-1	Aroclor 1254	SW8081	ug/kg							230	M	560	M
11104-28-2	Aroclor 1221	SW8081	ug/kg							100	U,M	95	U,M
11141-16-5	Aroclor 1232	SW8081	ug/kg							100	U,M	95	U,M
12672-29-6	Aroclor 1248	SW8081	ug/kg							100	U,M	95	U,M
12674-11-2	Aroclor 1016	SW8081	ug/kg							100	U,M	95	U,M
37324-23-5	Aroclor 1262	SW8081	ug/kg							100	U,M	95	U,M
53469-21-9	Aroclor 1242	SW8081	ug/kg							210	M	540	M
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g							141	D	324	D
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g							315	D	277	D
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g							32500	D	61200	D
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g							5260	D	9950	D
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g							20300	D	26800	D
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g							2890	D	3530	D
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g							1950	D	2420	D
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g							407	D	510	D
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g							1260	D	1700	D
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g							2080	D	2860	D
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g							13000	D	18800	D
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g							4010	D	6650	D
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g							3790	D	6410	D
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g							10200	D	17500	D
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g							15200	D	27800	D
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g							22	U,D	34.4	U,D
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g							309	D	443	D
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g							41.6	U,D	40.4	U,D

Table A-2-1
Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g							41.6	U,D	40.4	U,D
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g							141	D	261	D
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g							41.6	U,D	40.4	U,D
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g							41100	D	64700	D
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g							29200	D	44300	D
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g							11000	D	16100	D
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g							20.9	D,G	42.1	D
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g							1430	D	2460	D
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g							7720	D	10900	D
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g							20100	D	45100	D
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g							10000	D	20700	D
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g							241	D	422	D
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g							1180	D	2020	D
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g							19100	D	32100	D
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g							44900	D	78600	D
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g							3290	D	5500	D
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g							6150	D	9720	D
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g							13300	D	20500	D
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g							2330	D	4190	D
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g							8480	D	13800	D
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g							10700	D	21700	D
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g							51.7	D	52	D
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g							122	D	162	D
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g							14200	D	20800	D
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g							5420	D	10100	D
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g							806	D	852	D
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g							422	D	627	D
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g							41.6	U,D	40.4	U,D
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g							41.6	U,D	40.4	U,D
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g							725	D	1090	D
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g							1170	D	1690	D
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g							4960	D	6050	D
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g							138	D	218	D
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g							2490	D	3690	D
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g							30200	D	58700	D
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g							5430	D	8720	D
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g							1990	D	3780	D

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g							419	D	700	D
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g							132	D	212	D
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g							11300	D	20200	D
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g							4250	D	7950	D
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g							12300	D	19000	D
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g							7030	D	10900	D
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g							2020	D	3110	D
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g							2580	D	3980	D
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g							3340	D	4970	D
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g							8850	D	13100	D
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g							7620	D	11400	D
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g							3000	D	4550	D
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g							1420	D	2280	D
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g							1190	D	1750	D
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g							1910	D	2900	D
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g							10500	D	15100	D
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g							1470	D	1820	D
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g							3060	D	4230	D
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g							543	D	717	D
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g							7380	D	12200	D
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g							1480	D	2260	D
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g							6670	D	9960	D
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g							346	D	462	D
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g							41.6	U,D	40.4	U,D
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g							1520	D	2610	D
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g							230	D	509	D
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g							6100	D	9100	D
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g							30.7	D,G	72.3	D
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g							87.6	D	49.7	D
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g							1230	D	2070	D
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g							41.6	U,D	40.4	U,D
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g							190	D	301	D
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g							506	D	638	D
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g							181	D	275	D
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g							41.6	U,D	45.8	D
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g							686	D	960	D
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g							1260	D	2070	D

Table A-2-1
Sediment Data
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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g							41.6	U,D	40.4	U,D
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g							127	D	235	D
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g							636	D	985	D
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g							3280	D	3630	D
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g							181	D	326	D
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g							85	D	82.8	D
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g							355	D	589	D
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g							121	D	765	D
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g							1620	D	2170	D
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g							2270	D	3480	D
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g							282	D	442	D
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g							514	D	750	D
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g							696	D	1130	D
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g							1600	D	2390	D
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g							41600	D	72400	D
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g							4230	D	8570	D
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g							41.6	U,D	40.4	U,D
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g							171	D,J	252	D,J
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g							273	D	396	D
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g							1190	D	2160	D
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g							448	D	552	D
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g							1190	D	1980	D
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g							611	D	900	D
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g							505	D	549	D
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g							41.6	U,D	40.4	U,D
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g							610	D	1090	D
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g							41.6	U,D	40.4	U,D
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g							480	D	815	D
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g							1330	D	2250	D
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g							639	D	1070	D
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g							17.4	D,G	28.1	D,G
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g							154	D	190	D
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g							138	D	198	D
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g							42.6	D	69.5	D
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g							41.6	U,D	40.4	U,D
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g							517	D	773	D
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g							41.6	U,D	40.4	U,D

Table A-2-1
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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g							41.6	U,D	40.4	U,D
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g							338	D	494	D
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g							57	D	93.6	D
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g							395	D	707	D
PCB-106/118	PCB-106/118	SW8082A	pg/g							29900	D	50700	D
PCB-107/109	PCB-107/109	SW8082A	pg/g							2400	D	4140	D
PCB-108/112	PCB-108/112	SW8082A	pg/g							1780	D	3240	D
PCB-111/115	PCB-111/115	SW8082A	pg/g							618	D	1120	D
PCB-12/13	PCB-12/13	SW8082A	pg/g							3910	D	6140	D
PCB-128/162	PCB-128/162	SW8082A	pg/g							5010	D	8260	D
PCB-132/161	PCB-132/161	SW8082A	pg/g							10600	D	17000	D
PCB-133/142	PCB-133/142	SW8082A	pg/g							1170	D	1760	D
PCB-134/143	PCB-134/143	SW8082A	pg/g							1980	D	3210	D
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g							39600	D	62000	D
PCB-139/149	PCB-139/149	SW8082A	pg/g							44600	D	66400	D
PCB-146/165	PCB-146/165	SW8082A	pg/g							6360	D	9470	D
PCB-158/160	PCB-158/160	SW8082A	pg/g							4430	D	7210	D
PCB-16/32	PCB-16/32	SW8082A	pg/g							14700	D	29100	D
PCB-182/187	PCB-182/187	SW8082A	pg/g							21600	D	32300	D
PCB-196/203	PCB-196/203	SW8082A	pg/g							10800	D	15500	D
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g							13800	D	31100	D
PCB-24/27	PCB-24/27	SW8082A	pg/g							2500	D	4160	D
PCB-4/10	PCB-4/10	SW8082A	pg/g							5340	D	8750	D
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g							32100	D	57500	D
PCB-42/59	PCB-42/59	SW8082A	pg/g							11300	D	20500	D
PCB-43/49	PCB-43/49	SW8082A	pg/g							29800	D	51000	D
PCB-48/75	PCB-48/75	SW8082A	pg/g							6260	D	12100	D
PCB-5/8	PCB-5/8	SW8082A	pg/g							12900	D	25000	D
PCB-52/69	PCB-52/69	SW8082A	pg/g							34100	D	64100	D
PCB-56/60	PCB-56/60	SW8082A	pg/g							19100	D	34700	D
PCB-61/70	PCB-61/70	SW8082A	pg/g							34600	D	64600	D
PCB-66/76	PCB-66/76	SW8082A	pg/g							32400	D	54700	D
PCB-7/9	PCB-7/9	SW8082A	pg/g							1020	D	2380	D
PCB-84/92	PCB-84/92	SW8082A	pg/g							16100	D	27300	D
PCB-85/116	PCB-85/116	SW8082A	pg/g							6590	D	11300	D
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g							12700	D	22000	D
PCB-88/91	PCB-88/91	SW8082A	pg/g							6630	D	11500	D

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			Sample Location	NB01SED049		NB01SED049		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB01SEDDUP056		NB01SEDDUP092		NB02SED075A-31		NB02SED075F-01		NB02SED075F-02	
			Parent Sample ID	NB01SED049D-21		NB01SED049C-30							
			Sample Date	11/17/2005		11/17/2005		12/4/2007		12/7/2007		12/7/2007	
			Start Depth	0		12		0		0		0.5	
			End Depth	1		20		0.25		0.5		1.5	
			Depth Unit	in		in		ft		ft		ft	
			Type	FD		FD		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g							40200	D	69600	D
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g							30800	D	54600	D
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg								R		R
93-76-5	2,4,5-T	SW8151	ug/kg							63	JH	39	P,JH
94-75-7	2,4-D	SW8151	ug/kg							130	U,M	120	P,NJ
94-82-6	2,4-DB	SW8151	ug/kg								R		R

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg	4300	B,D,M	1300	B,D,M	2100	B,D,M	2300	B,D,M	2900	B,D
TEPH	TEPH	8015B	mg/kg										
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg										
1461-25-2	Tetrabutyltin	8315M	ug/kg										
56573-85-4	Tributyltin	8315M	ug/kg										
78763-54-9	Monobutyltin	8315M	ug/kg										
Grain Size Distribution													
0.01	0.01	ASTM-D421	um	0		0				0			
0.011	0.011	ASTM-D421	um	0		0				0			
0.013	0.013	ASTM-D421	um	0		0				0			
0.015	0.015	ASTM-D421	um	0		0				0			
0.017	0.017	ASTM-D421	um	0		0				0			
0.02	0.02	ASTM-D421	um	0		0				0			
0.020	0.020 um	ASTM-D421	um										
0.022	0.022 um	ASTM-D421	um										
0.023	0.023	ASTM-D421	um	0		0				0			
0.025	0.025 um	ASTM-D421	um										
0.026	0.026	ASTM-D421	um	0		0				0			
0.028	0.028 um	ASTM-D421	um										
0.03	0.03	ASTM-D421	um	0		0				0			
0.032	0.032 um	ASTM-D421	um										
0.035	0.035	ASTM-D421	um	0		0				0			
0.036	0.036 um	ASTM-D421	um										
0.04	0.04	ASTM-D421	um	0		0				0			
0.040	0.040 um	ASTM-D421	um										
0.045	0.045 um	ASTM-D421	um										
0.046	0.046	ASTM-D421	um	0		0				0			
0.050	0.050 um	ASTM-D421	um										
0.052	0.052	ASTM-D421	um	0		0				0			
0.056	0.056 um	ASTM-D421	um										
0.06	0.06	ASTM-D421	um	0		0				0			
0.063	0.063 um	ASTM-D421	um										
0.069	0.069	ASTM-D421	um	0		0				0			
0.071	0.071 um	ASTM-D421	um										
0.079	0.079	ASTM-D421	um	0		0				0			

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um										
0.089	0.089 um	ASTM-D421	um										
0.091	0.091	ASTM-D421	um	0		0				0			
0.100	0.100 um	ASTM-D421	um										
0.105	0.105	ASTM-D421	um	0		0				0			
0.112	0.112 um	ASTM-D421	um										
0.12	0.12	ASTM-D421	um	0		0				0			
0.126	0.126 um	ASTM-D421	um										
0.138	0.138	ASTM-D421	um	0		0				0			
0.142	0.142 um	ASTM-D421	um										
0.158	0.158	ASTM-D421	um	0		0				0			
0.159	0.159 um	ASTM-D421	um										
0.178	0.178 um	ASTM-D421	um										
0.182	0.182	ASTM-D421	um	0		0				0			
0.200	0.200 um	ASTM-D421	um										
0.209	0.209	ASTM-D421	um	0		0				0			
0.224	0.224 um	ASTM-D421	um										
0.24	0.24	ASTM-D421	um	0		0				0			
0.252	0.252 um	ASTM-D421	um										
0.275	0.275	ASTM-D421	um	0		0				0			
0.283	0.283 um	ASTM-D421	um										
0.316	0.316	ASTM-D421	um	0.003481		0.005202				0.00703			
0.317	0.317 um	ASTM-D421	um										
0.356	0.356 um	ASTM-D421	um										
0.363	0.363	ASTM-D421	um	0.060156		0.088167				0.1147			
0.399	0.399 um	ASTM-D421	um										
0.417	0.417	ASTM-D421	um	0.205573		0.274847				0.288444			
0.448	0.448 um	ASTM-D421	um										
0.479	0.479	ASTM-D421	um	0.326927		0.431245				0.434373			
0.502	0.502 um	ASTM-D421	um										
0.55	0.55	ASTM-D421	um	0.417053		0.547765				0.542858			
0.564	0.564 um	ASTM-D421	um										
0.631	0.631	ASTM-D421	um	0.48256		0.63226				0.620866			
0.632	0.632 um	ASTM-D421	um										
0.710	0.710 um	ASTM-D421	um										
0.724	0.724	ASTM-D421	um	0.522003		0.682287				0.666864			
0.796	0.796 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um	0.546035		0.710477				0.693287			
0.893	0.893 um	ASTM-D421	um										
0.955	0.955	ASTM-D421	um	0.568651		0.733437				0.716826			
1.002	1.002 um	ASTM-D421	um										
1.096	1.096	ASTM-D421	um	0.607342		0.772267				0.75852			
1.125	1.125 um	ASTM-D421	um										
1.259	1.259	ASTM-D421	um	0.680588		0.849073				0.84064			
1.262	1.262 um	ASTM-D421	um										
1.416	1.416 um	ASTM-D421	um										
1.445	1.445	ASTM-D421	um	0.800786		0.979011				0.978498			
1.589	1.589 um	ASTM-D421	um										
1.66	1.66	ASTM-D421	um	0.975279		1.171022				1.181287			
1.783	1.783 um	ASTM-D421	um										
1.905	1.905	ASTM-D421	um	1.201228		1.422626				1.44598			
10	10	ASTM-D421	um	4.005838		4.791293				4.368122			
10.024	10.024 um	ASTM-D421	um										
100.237	100.237 um	ASTM-D421	um										
10000	10000	ASTM-D421	um	0		0				0			
1002.374	1002.374 um	ASTM-D421	um										
104.713	104.713	ASTM-D421	um	1.354358		0.968442				0.988033			
1096.478	1096.478	ASTM-D421	um	0.285028		0.151266				0.137081			
11.247	11.247 um	ASTM-D421	um										
11.482	11.482	ASTM-D421	um	3.87913		4.615404				4.155186			
112.468	112.468 um	ASTM-D421	um										
1124.683	1124.683 um	ASTM-D421	um										
12.619	12.619 um	ASTM-D421	um										
120.226	120.226	ASTM-D421	um	1.308266		0.848436				0.94111			
1258.925	1258.925	ASTM-D421	um	0.195532		0.121505				0.066108			
126.191	126.191 um	ASTM-D421	um										
1261.915	1261.915 um	ASTM-D421	um										
13.183	13.183	ASTM-D421	um	3.690723		4.35054				3.876693			
138.038	138.038	ASTM-D421	um	1.268314		0.724205				0.910622			
14.159	14.159 um	ASTM-D421	um										
141.589	141.589 um	ASTM-D421	um										
1415.892	1415.892 um	ASTM-D421	um										
1445.44	1445.44	ASTM-D421	um	0.118374		0.086452				0.025101			
15.136	15.136	ASTM-D421	um	3.460326		4.023054				3.560102			

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um										
158.489	158.489	ASTM-D421	um	1.236752		0.607586				0.896983			
158.866	158.866 um	ASTM-D421	um										
1588.656	1588.656 um	ASTM-D421	um										
1659.587	1659.587	ASTM-D421	um	0.063745		0.05033				0.008243			
17.378	17.378	ASTM-D421	um	3.199666		3.64926				3.219541			
17.825	17.825 um	ASTM-D421	um										
178.250	178.250 um	ASTM-D421	um										
1782.502	1782.502 um	ASTM-D421	um										
181.97	181.97	ASTM-D421	um	1.210794		0.502481				0.894541			
19.953	19.953	ASTM-D421	um	2.931251		3.261994				2.882305			
1905.461	1905.461	ASTM-D421	um	0.012896		0.011236				0.002848			
2.000	2.000 um	ASTM-D421	um										
2.188	2.188	ASTM-D421	um	1.474192		1.730008				1.767073			
2.244	2.244 um	ASTM-D421	um										
2.512	2.512	ASTM-D421	um	1.78679		2.086773				2.134832			
2.518	2.518 um	ASTM-D421	um										
2.825	2.825 um	ASTM-D421	um										
2.884	2.884	ASTM-D421	um	2.129208		2.483794				2.53585			
20.000	20.000 um	ASTM-D421	um										
200.000	200.000 um	ASTM-D421	um										
2000.000	2000.000 um	ASTM-D421	um										
208.93	208.93	ASTM-D421	um	1.186807		0.416482				0.894513			
2187.762	2187.762	ASTM-D421	um	0		0				0			
22.440	22.440 um	ASTM-D421	um										
22.909	22.909	ASTM-D421	um	2.666471		2.879105				2.560294			
224.404	224.404 um	ASTM-D421	um										
239.883	239.883	ASTM-D421	um	1.159543		0.349038				0.887697			
25.179	25.179 um	ASTM-D421	um										
251.785	251.785 um	ASTM-D421	um										
2511.886	2511.886	ASTM-D421	um	0		0				0			
26.303	26.303	ASTM-D421	um	2.421995		2.526529				2.271171			
275.423	275.423	ASTM-D421	um	1.127196		0.302397				0.868094			
28.251	28.251 um	ASTM-D421	um										
282.508	282.508 um	ASTM-D421	um										
2884.032	2884.032	ASTM-D421	um	0		0				0			
3.170	3.170 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um	2.489462		2.908786				2.953552			
3.557	3.557 um	ASTM-D421	um										
3.802	3.802	ASTM-D421	um	2.848693		3.340341				3.363154			
3.991	3.991 um	ASTM-D421	um										
30.2	30.2	ASTM-D421	um	2.204501		2.215615				2.019803			
31.698	31.698 um	ASTM-D421	um										
316.228	316.228	ASTM-D421	um	1.087966		0.274112				0.832388			
316.979	316.979 um	ASTM-D421	um										
3311.311	3311.311	ASTM-D421	um	0		0				0			
34.674	34.674	ASTM-D421	um	2.020643		1.956888				1.810547			
35.566	35.566 um	ASTM-D421	um										
355.656	355.656 um	ASTM-D421	um										
363.078	363.078	ASTM-D421	um	1.041838		0.261572				0.781205			
3801.894	3801.894	ASTM-D421	um	0		0				0			
39.811	39.811	ASTM-D421	um	1.870354		1.750034				1.639837			
39.905	39.905 um	ASTM-D421	um										
399.052	399.052 um	ASTM-D421	um										
4.365	4.365	ASTM-D421	um	3.192485		3.761093				3.745141			
4.477	4.477 um	ASTM-D421	um										
416.869	416.869	ASTM-D421	um	0.986701		0.259918				0.715824			
4365.158	4365.158	ASTM-D421	um	0		0				0			
44.774	44.774 um	ASTM-D421	um										
447.744	447.744 um	ASTM-D421	um										
45.709	45.709	ASTM-D421	um	1.750925		1.58971				1.501561			
478.63	478.63	ASTM-D421	um	0.920319		0.26344				0.639566			
5.012	5.012	ASTM-D421	um	3.497394		4.141275				4.070626			
5.024	5.024 um	ASTM-D421	um										
5.637	5.637 um	ASTM-D421	um										
5.754	5.754	ASTM-D421	um	3.750844		4.463147				4.323718			
50.238	50.238 um	ASTM-D421	um										
5011.872	5011.872	ASTM-D421	um	0		0				0			
502.377	502.377 um	ASTM-D421	um										
52.481	52.481	ASTM-D421	um	1.656771		1.465511				1.38752			
549.541	549.541	ASTM-D421	um	0.83884		0.266092				0.554554			
56.368	56.368 um	ASTM-D421	um										
563.677	563.677 um	ASTM-D421	um										
5754.399	5754.399	ASTM-D421	um	0		0				0			

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um										
6.607	6.607	ASTM-D421	um	3.933333		4.699059				4.483349			
60.256	60.256	ASTM-D421	um	1.580489		1.363777				1.289072			
63.246	63.246 um	ASTM-D421	um										
630.957	630.957	ASTM-D421	um	0.741408		0.26305				0.464338			
632.456	632.456 um	ASTM-D421	um										
6606.934	6606.934	ASTM-D421	um	0		0				0			
69.183	69.183	ASTM-D421	um	1.516369		1.272679				1.201468			
7.096	7.096 um	ASTM-D421	um										
7.586	7.586	ASTM-D421	um	4.039248		4.838255				4.544			
7.962	7.962 um	ASTM-D421	um										
70.963	70.963 um	ASTM-D421	um										
709.627	709.627 um	ASTM-D421	um										
724.436	724.436	ASTM-D421	um	0.629924		0.250691				0.372962			
7585.776	7585.776	ASTM-D421	um	0		0				0			
79.433	79.433	ASTM-D421	um	1.458716		1.180327				1.121183			
79.621	79.621 um	ASTM-D421	um										
796.214	796.214 um	ASTM-D421	um										
8.71	8.71	ASTM-D421	um	4.062403		4.868885				4.50365			
8.934	8.934 um	ASTM-D421	um										
831.764	831.764	ASTM-D421	um	0.510956		0.229525				0.284069			
8709.636	8709.636	ASTM-D421	um	0		0				0			
89.337	89.337 um	ASTM-D421	um										
893.367	893.367 um	ASTM-D421	um										
91.201	91.201	ASTM-D421	um	1.40532		1.080579				1.049662			
954.993	954.993	ASTM-D421	um	0.39324		0.198345				0.204937			
d (0.1)	d (0.1)	ASTM-D421	um	2.749		2.321				2.32			
d (0.5)	d (0.5)	ASTM-D421	um	13.938		10.402				10.742			
d (0.9)	d (0.9)	ASTM-D421	um	243.115		76.544				147.546			
D[V,0.10]	D[v,0.10]	ASTM-D421	um										
D[V,0.50]	D[v,0.50]	ASTM-D421	um										
D[V,0.90]	D[v,0.90]	ASTM-D421	um										
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g	148		89.5		113		146		249	
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	23.3		14.1		19.7		19.9		23.6	
30402-15-4	Total PeCDF	E1613B	pg/g	780	P	355	P	502	P	602	P	880	P
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g	5620		3890		5230		4950		6160	

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g	392		259		347		370		431	
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g	663		411		574		567		708	
36088-22-9	Total PeCDD	E1613B	pg/g	139		78.6		98		114		141	
37871-00-4	Total HpCDD	E1613B	pg/g	1430		1040		1320		1320		1530	
38998-75-3	Total HcCDF	E1613B	pg/g	1040		600		812		884		1170	
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g	887		616		777		795		1080	
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	9.87		6.27		8.87		8.42		8.29	
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g	11.4		6.38		8.37		9.26		12.9	
41903-57-5	Total TCDD	E1613B	pg/g	292		201		229		257		401	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g	83.4		20.9		26.5		29.7		70.5	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g	31.8		17		21.3		22.3		29.2	
55684-94-1	Total HxCDF	E1613B	pg/g	778	P	407	P	556	P	605	P	767	P
55722-27-5	Total TCDF	E1613B	pg/g	1300	P	457	P	658	P	804	P	1330	P
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g	54.9		18.1		26.6		29.6		45.6	
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g	37.5		14.1		19.5		21.7		30.2	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	61		27.9		37.4		42.1		51.1	EMPC
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	45		23.7		34.7		39		51.5	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	33.3		11.8		18		19.7		26.5	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g	663		397		527		575		672	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g	137		88.3		107		121		132	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g	4.47		1.98	U	2.65		2.94		3.11	
Metals													
57-12-5	Cyanide	E200.7	mg/kg	2.6	U	0.48	B,M	0.31	B,M	0.5	B,M	0.94	B
7429-90-5	Aluminum	E200.7	mg/kg	20300	M	16300	M	17200	M	17100	M	17100	
7439-89-6	Iron	E200.7	mg/kg	44000	M	37900	M	41400	M	38600	M	32200	
7439-92-1	Lead	E200.7	mg/kg	415	N,JL	162	N,JL	231	N,JL	258	N,JL	277	N,JL
7439-95-4	Magnesium	E200.7	mg/kg	9460	M	10300	M	10500	M	9440	M	8180	
7439-96-5	Manganese	E200.7	mg/kg	444	M	466	M	533	M	483	M	445	
7439-97-6	Mercury	E200.7	mg/kg	292	M	12	M	44.5	M	79.2	M	115	
7440-02-0	Nickel	E200.7	mg/kg	67.4	M	43.8	M	46.4	M	48.6	M	51.6	
7440-09-7	Potassium	E200.7	mg/kg	3100	M	3470	M	3450	M	3300	M	2930	
7440-22-4	Silver	E200.7	mg/kg	16	N,JL	4.8	N,JL	7.5	N,JL	9.1	N,JL	10.9	N,JL
7440-23-5	Sodium	E200.7	mg/kg	12000	E,J	11200	E,J	13000	E,J	11100	E,J	7200	E,J
7440-28-0	Thallium	E200.7	mg/kg	1.3	U	1.2	U	1.3	U	1.2	U	0.98	B,U
7440-32-6	Titanium	E200.7	mg/kg	489	M	505	M	494	M	471	M	430	
7440-36-0	Antimony	E200.7	mg/kg	6.5	N,UJL	6.1	N,UJL	6.7	N,UJL	6	N,UJL	4.9	N,UJL
7440-38-2	Arsenic	E200.7	mg/kg	39.4	M	17.2	M	26.7	M	26.7	M	29.5	

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg	196	M	166	M	220	M	164	M	156	
7440-41-7	Beryllium	E200.7	mg/kg	0.85	B,M	0.84	B,M	0.86	B,M	0.82	B,M	0.79	
7440-43-9	Cadmium	E200.7	mg/kg	6	M	2	M	3.3	M	4.5	M	9.4	
7440-47-3	Chromium	E200.7	mg/kg	188	M	118	M	147	M	178	M	235	
7440-48-4	Cobalt	E200.7	mg/kg	14.8	M	11.8	M	12.3	M	12.5	M	12.4	
7440-50-8	Copper	E200.7	mg/kg	533	M	167	M	228	M	282	M	367	
7440-62-2	Vanadium	E200.7	mg/kg	54.8	M	45.9	M	50.7	M	49.6	M	45.1	
7440-66-6	Zinc	E200.7	mg/kg	722	E,J	331	E,J	471	E,J	489	E,J	543	E,J
7440-70-2	Calcium	E200.7	mg/kg	10300	M	9680	M	10100	M	11200	M	11300	
7782-49-2	Selenium	E200.7	mg/kg	1	B,N,JL	0.72	B,N,JL	0.89	B,N,JL	0.83	B,N,JL	0.8	B,N,JL
9/7/7440	Potassium	E200.7	mg/kg	3100	M	3470	M	3450	M	3300	M	2930	
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg										
100-42-5	Styrene	E524	ug/kg										
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg										
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg										
106-46-7	1,4-Dichlorobenzene	E524	ug/kg	25	UJ	22	U,M	22	U,M	19	U,M	14	U,M
107-06-2	1,2-Dichloroethane	E524	ug/kg										
108-10-1	4-Methyl-2-pentanone	E524	ug/kg										
108-88-3	Toluene	E524	ug/kg										
108-90-7	Chlorobenzene	E524	ug/kg	13	G,M	22	U,M	22	U,M	19	U,M	14	U,M
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg	25	UJ	22	U,M	22	U,M	19	U,M	14	U,M
124-48-1	Dibromochloromethane	E524	ug/kg										
127-18-4	Tetrachloroethene	E524	ug/kg										
1330-20-7	Xylenes (TOTAL)	E524	ug/kg										
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg										
541-73-1	1,3-Dichlorobenzene	E524	ug/kg	25	UJ	22	U,M	22	U,M	19	U,M	14	U,M
56-23-5	Carbon Tetrachloride	E524	ug/kg										
591-78-6	2-Hexanone	E524	ug/kg										
67-64-1	Acetone	E524	ug/kg										
67-66-3	Chloroform	E524	ug/kg										
71-43-2	Benzene	E524	ug/kg										
71-55-6	1,1,1-Trichloroethane	E524	ug/kg										
74-83-9	Bromomethane	E524	ug/kg										
74-87-3	Chloromethane	E524	ug/kg										
75-00-3	Chloroethane	E524	ug/kg										
75-01-4	Vinyl Chloride	E524	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg										
75-15-0	Carbon Disulfide	E524	ug/kg										
75-25-2	Bromoform	E524	ug/kg										
75-27-4	Bromodichloromethane	E524	ug/kg										
75-34-3	1,1-Dichloroethane	E524	ug/kg										
75-35-4	1,1-Dichloroethene	E524	ug/kg										
78-87-5	1,2-Dichloropropane	E524	ug/kg										
78-93-3	2-Butanone	E524	ug/kg										
79-00-5	1,1,2-Trichloroethane	E524	ug/kg										
79-01-6	Trichloroethene	E524	ug/kg										
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg										
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg	25	UJ	22	U,M	22	U,M	19	U,M	14	U,M
95-50-1	1,2-Dichlorobenzene	E524	ug/kg	25	UJ	22	U,M	22	U,M	19	U,M	14	U,M
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg	1700	U,M	800	U,M	890	U,M	1000	U,D,M	1300	U,D
100-02-7	4-Nitrophenol	E625	ug/kg	1700	U,D,M	800	U,M	890	U,M	1000	U,D,M	1300	U,D
100-52-7	Benzaldehyde	E625	ug/kg	890	U,D,M	63	G,M	87	G,M	540	U,D,M	670	U,D
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	890	UJ	410	UJ	460	UJ	540	D,UJ	670	D,UJ
105-60-2	Caprolactam	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
105-67-9	2,4-Dimethylphenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
106-44-5	4-Methylphenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
106-46-7	1,4-Dichlorobenzene	E625	ug/kg										
106-47-8	4-Chloroaniline	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	58	G,D,M	130	G,D
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
108-95-2	Phenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	170000	D,M	8100	E,B,J	27000	E,B,J	51000	E,B,D,J	130000	D
117-84-0	Di-n-octylphthalate	E625	ug/kg	760	G,J	100	G,J	240	G,J	460	G,D,J	820	D,J
118-74-1	Hexachlorobenzene	E625	ug/kg	87	U,M	11	U,D,M	30	U,D,M	65	U,D,M	92	U,D
120-12-7	Anthracene	E625	ug/kg	2600	D,M	260	G,M	4800	M	4900	D,M	4100	D
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg										
120-83-2	2,4-Dichlorophenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
129-00-0	Pyrene	E625	ug/kg	10000	D,M	1800	M	4600	M	9000	E,D,J	15000	D
131-11-3	Dimethylphthalate	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
132-64-9	Dibenzofuran	E625	ug/kg	320	G,D,M	81	G,M	280	G,M	310	G,D,M	380	G,D

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg	890	U,M	410	U,M	460	U,M	540	U,D,M	670	U,D
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	1100	D,M	400	G,M	650	M	670	D,M	680	G,D,J
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	1100	D,M	360	G,M	620	M	690	D,M	760	G,D,J
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	5100	D,M	1300	M	3100	M	3100	D,M	3600	D
206-44-0	Fluoranthene	E625	ug/kg	15000	D,M	2300	M	7600	E,J	19000	E,D,J	19000	D
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	5300	D,J	1400	J	1800	J	2900	D,J	4300	D,J
208-96-8	Acenaphthylene	E625	ug/kg	200	D,M	65	D,M	110	D,M	150	D,M	200	D
218-01-9	Chrysene	E625	ug/kg	6100	D,M	1000	M	3500	M	4000	D,M	5900	D
50-32-8	Benzo(a)pyrene	E625	ug/kg	3900	D,M	990	M	1800	M	2200	D,M	2900	D
51-28-5	2,4-Dinitrophenol	E625	ug/kg	1700	U,D,M	800	U,M	890	U,M	1000	U,D,M	1300	U,D
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	1700	U,M	800	U,M	890	U,M	1000	U,D,M	22000	U,D
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	380	G,D,M	120	G,M	190	G,M	500	D,M	560	D,J
541-73-1	1,3-Dichlorobenzene	E625	ug/kg										
56-55-3	Benzo(a)anthracene	E625	ug/kg	5500	D,M	750	M	1800	M	3300	D,M	5800	D
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,M	670	U,D
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
67-72-1	Hexachloroethane	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	890	U,M	410	U,M	460	U,M	540	U,D,M	670	U,D
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg		R		R		R		R		R
78-59-1	Isophorone	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	11000	E,D,J	670	U,D
83-32-9	Acenaphthene	E625	ug/kg	1100	D,M	98	D,M	370	G,M	1400	D,M	2100	D
84-66-2	Diethylphthalate	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
84-74-2	Di-n-butylphthalate	E625	ug/kg	110	G,D,M	46	G,M	96	G,M	73	G,D,M	670	U,D
85-01-8	Phenanthrene	E625	ug/kg	4600	D,M	560	M	1800	M	2600	D,M	4100	D
85-68-7	Butylbenzylphthalate	E625	ug/kg	2800	D,M	140	G,M	310	G,M	400	G,D,M	98	G,D
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	890	U,M	58	G,M	460	U,M	540	U,D,M	11000	U,D
86-73-7	Fluorene	E625	ug/kg	680	D,M	87	D,M	570	M	840	D,M	1400	D
86-74-8	Carbazole	E625	ug/kg	310	G,D,M	76	G,M	940	M	340	G,D,M	330	G,D
87-68-3	Hexachlorobutadiene	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
87-86-5	Pentachlorophenol	E625	ug/kg	180	UJ	23	D,UJ	60	D,UJ	130	D,UJ	190	D,UJ
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
88-74-4	2-Nitroaniline	E625	ug/kg	1700	U,D,M	800	U,M	890	U,M	1000	U,D,M	1300	U,D
88-75-5	2-Nitrophenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
91-20-3	Naphthalene	E625	ug/kg	390	B,D,M	150	G,M	330	G,M	540	B,D,M	810	B,D
91-57-6	2-Methylnaphthalene	E625	ug/kg	230	D,M	110	D,M	290	D,M	390	D,M	300	D

Table A-2-1
Sediment Data
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Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
92-52-4	1,1'-Biphenyl	E625	ug/kg	890	U,D,M	410	U,M	76	G,M	83	G,D,M	76	G,D
95-48-7	2-Methylphenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
95-50-1	1,2-Dichlorobenzene	E625	ug/kg										
95-57-8	2-Chlorophenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg	890	U,M	410	U,M	460	U,M	540	U,D,M	670	U,D
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
98-86-2	Acetophenone	E625	ug/kg	890	U,D,M	410	U,M	55	G,M	54	G,D,M	670	U,D
98-95-3	Nitrobenzene	E625	ug/kg	890	U,D,M	410	U,M	460	U,M	540	U,D,M	670	U,D
99-09-2	3-Nitroaniline	E625	ug/kg	1700	U,D,M	800	U,M	890	U,M	1000	U,D,M	1300	U,D
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%	159.9		145.3		168.5		139.8		95.5	
SG	Specific Gravity	MISC	sg	2.664		2.704		2.722		2.692		2.697	
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg	41800	M	35500	M	38700	M	34500	M	35100	
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g										
13966-02-4	Beryllium-7	RadChem	pci/g										
14255-04-0	Lead-210	RadChem	pci/g										
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg		R	4.6	P,NJ	5.7	P,NJ	5.7	P,NJ	9.4	P,NJ
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg	8.8	U,M	8.1	U,M	9	U,M	7.9	U	6.5	U
309-00-2	Aldrin	SW8080	ug/kg	7.7	P,NJ	4.1	U,M	4.5	U,M	4.2	P,NJ	6.6	P,NJ
319-84-6	alpha-BHC	SW8080	ug/kg	3.4	G,P,J	4.1	U	4.5	U	4	U	3.3	U
319-85-7	beta-BHC	SW8080	ug/kg	3.7	G,M	3.3	G,M	2.1	G,M	4	U	3.3	U
319-86-8	delta-BHC	SW8080	ug/kg	4.4	U,M	4.1	U,M	4.5	U,M	4	U,M	3.3	U
33213-65-9	Endosulfan II	SW8080	ug/kg	8.8	U	8.1	U,M	9	U	7.9	U	6.5	U
3424-82-6	2,4'-DDE	SW8080	ug/kg		R	8	U	10	P,NJ	11	P,NJ	17	P,NJ
50-29-3	4,4'-DDT	SW8080	ug/kg	15	P,NJ	8.1	U	9	U	8.3	P,NJ	12	P,NJ
5103-71-9	alpha-Chlordane	SW8080	ug/kg	16	M	4.1	M	5.4	M	5.4	M	8.1	
5103-74-2	gamma-Chlordane	SW8080	ug/kg	18	P,NJ	4.5	P,NJ	6.3	P,NJ	7.1	P,NJ	15	P,NJ
53-19-0	2,4'-DDD	SW8080	ug/kg	17	P,J	8	U	16	P,J	7.9	U	6.5	U
53494-70-5	Endrin Ketone	SW8080	ug/kg	8.8	U	8.1	U	9	U	7.9	U	6.5	U
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg	4.4	U	4.1	U,M	4.5	U	4	U	3.3	U
60-57-1	Dieldrin	SW8080	ug/kg	10	P,NJ	8.1	U	9	U	7.9	U		R
72-20-8	Endrin	SW8080	ug/kg	8.8	U	8.1	U,M	9	U	7.9	U	6.5	U

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg	44	U,M	41	U,M	45	U,M	40	U,M	33	U
72-54-8	4,4'-DDD	SW8080	ug/kg	40	M	21	M	27	M	15	M	11	
72-55-9	4,4'-DDE	SW8080	ug/kg	41	P,J	23	M	32	P,J	31	P,J	49	P,J
7421-93-4	Endrin aldehyde	SW8080	ug/kg	8.8	U	8.1	U	9	U	7.9	U	6.5	U
76-44-8	Heptachlor	SW8080	ug/kg	7.4	M	4.1	U	3.1	G,P,J	3.3	G,M	6.5	
789-02-6	2,4'-DDT	SW8080	ug/kg	8.7	U	8	U	8.9	U	7.9	U	6.5	U
8001-35-2	Toxaphene	SW8080	ug/kg	440	U,M	410	U,M	450	U,M	400	U,M	330	U
959-98-8	Endosulfan I	SW8080	ug/kg	4.4	U	4.1	U	4.5	U	4	U	3.3	U
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg	88	U,M	81	U,M	90	U,M	79	U,M	65	U
11096-82-5	Aroclor 1260	SW8081	ug/kg	440	M	150	M	230	M	230	M	340	
11097-69-1	Aroclor 1254	SW8081	ug/kg	700	M	250	M	390	M	380	M	640	
11104-28-2	Aroclor 1221	SW8081	ug/kg	88	U,M	81	U,M	90	U,M	79	U,M	65	U
11141-16-5	Aroclor 1232	SW8081	ug/kg	88	U,M	81	U,M	90	U,M	79	U,M	65	U
12672-29-6	Aroclor 1248	SW8081	ug/kg	88	U,M	81	U,M	90	U,M	79	U,M	65	U
12674-11-2	Aroclor 1016	SW8081	ug/kg	88	U,M	81	U,M	90	U,M	79	U,M	65	U
37324-23-5	Aroclor 1262	SW8081	ug/kg	88	U,M	81	U,M	90	U,M	79	U,M	65	U
53469-21-9	Aroclor 1242	SW8081	ug/kg	690	P,J	190	M	350	M	340	M	620	
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g	528	D	114	D	211	D,J	227	D,J	494	D
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g	451	D	207	D	213	D,J	271	D,J	402	D
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g	83700	D	27500	D	45500	D,J	68900	D,J	120000	D
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g	11200	D	6550	D	8250	D	11500	D	22400	D
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g	30600	D	21400	D	25700	D	27800	D	31200	D
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g	3800	D	3120	D	3590	D	4250	D	7640	D
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g	3050	D	1440	D	1720	D	1460	D	1870	D
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g	906	D	449	D	524	D	658	D	869	D
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g	2320	D	1050	D	1280	D	1400	D	1900	D
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g	4110	D	1920	D	2500	D	3140	D	4580	D
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g	25600	D	12200	D	15700	D,J	22100	D,J	26800	D
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g	10100	D	3330	D	4760	D	9980	D	7020	D
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g	9760	D	4030	D	5560	D,J	6540	D,J	7630	D
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g	23100	D	9380	D,J	13600	D,J	17000	D,J	22700	D
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g	35400	D	13300	D	19700	D,J	25900	D,J	37400	D
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g	79.5	U,D	15.1	D,G,J	18.9	D,G,J	32.3	D,UJ	123	U,D
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g	728	D	274	D	362	D	474	D	699	D
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g	199	U,D	41.7	U,D	40.6	D,UJ	39.9	D,UJ	207	U,D

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g	199	U,D	41.7	U,D	42.3	D,J	58.7	D,J	207	U,D
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g	374	D	144	D,J	232	D,J	399	D,J	766	D
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g	199	U,D	41.7	U,D	40.6	U,D	39.9	U,D	207	U,D
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g	101000	D	36000	D,J	54500	D,J	70100	D,J	112000	D
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g	73100	D	26000	D,J	38100	D,J	50000	D,J	66900	D
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g	27500	D	9440	D,J	14300	D,J	18900	D,J	26200	D
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g	65.6	D,G	15.8	D,G	30.1	D,G,J	45.2	D,J	95.3	D,G
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g	3450	D	1240	D,J	2080	D,J	2250	D,J	3450	D
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g	17500	D	6910	D	9210	D	12100	D	15500	D
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g	65600	D	15400	D	27300	D,J	46400	D,J	79200	D
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g	30700	D	8250	D	13600	D,J	22500	D,J	36900	D
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g	688	D	209	D	352	D,J	547	D,J	1110	D
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g	2880	D	1090	D	1560	D,J	2130	D,J	4190	D
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g	44800	D	17500	D,J	24900	D,J	33400	D,J	55200	D
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g	105000	D	39000	D,J	59300	D,J	74300	D,J	104000	D
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g	7920	D	2960	D,J	4360	D,J	5430	D,J	7530	D
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g	15500	D	5230	D,J	7930	D,J	10500	D,J	16600	D
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g	33900	D	11400	D,J	17400	D,J	23700	D,J	30600	D
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g	6790	D	1740	D	2960	D,J	4360	D,J	7060	D
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g	18600	D	7810	D	11500	D,J	17700	D,J	23500	D
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g	31300	D	9750	D	16300	D,J	21700	D,J	39700	D
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g	79.5	D,G	51.2	D	68.6	D,J	81.9	D,J	207	U,D
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g	238	D	126	D	175	D,J	257	D,J	414	D
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g	27300	D	13800	D	18800	D,J	21400	D,J	29500	D
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g	14500	D	3240	D	5350	D,J	7270	D,J	16100	D
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g	1180	D	542	D,J	847	D,J	1380	D,J	2300	D
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g	1070	D	369	D,J	542	D,J	702	D,J	997	D
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g	1790	D	614	D,J	836	D,J	978	D,J	1800	D
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g	2700	D	1080	D	1420	D	1850	D	2620	D
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g	8540	D	4860	D	6020	D	6610	D	10300	D
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g	337	D	116	D,J	154	D,J	198	D,J	285	D
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g	6480	D	2190	D,J	3180	D,J	4130	D,J	6220	D
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g	83600	D	25000	D	40200	D,J	59400	D,J	82800	D
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g	13000	D	4120	D	6290	D,J	9390	D,J	14400	D
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g	5780	D	1550	D	2700	D,J	3870	D,J	5780	D

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g	1010	D	316	D	437	D,J	683	D,J	1540	D
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g	454	D	125	D	190	D,J	285	D,J	472	D
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g	26600	D	9730	D,J	15200	D,J	19200	D,J	27200	D
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g	11200	D	3910	D,J	6210	D,J	7460	D,J	9480	D
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g	29900	D	10400	D,J	14900	D,J	19900	D,J	30900	D
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g	17700	D	5990	D,J	8630	D,J	12000	D,J	18900	D
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g	5000	D	1680	D,J	2400	D,J	3400	D,J	5110	D
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g	5770	D	2300	D,J	3040	D,J	4080	D,J	5790	D
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g	7730	D	2850	D,J	3830	D,J	5200	D,J	8260	D
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g	21600	D	7440	D,J	10300	D,J	13900	D,J	21400	D
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g	18900	D	6840	D,J	10000	D,J	13600	D,J	17400	D
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g	7650	D	2710	D,J	4060	D,J	5460	D,J	6710	D
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g	3490	D	1270	D,J	1870	D,J	2360	D,J	3120	D
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g	2940	D	974	D	1390	D	1750	D	2730	D
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g	4980	D	1720	D,J	2570	D,J	3290	D,J	4370	D
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g	25100	D	9100	D	11700	D	14100	D	23900	D
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g	2350	D	1540	D	1850	D	2080	D	3170	D
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g	6860	D	2500	D	3690	D	5200	D	6280	D
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g	1080	D	543	D	668	D	767	D	1050	D
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g	19100	D	6320	D,J	9620	D,J	12800	D,J	17400	D
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g	3690	D	1290	D,J	1950	D,J	2630	D,J	3360	D
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g	14500	D	5620	D,J	7950	D,J	10000	D,J	15700	D
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g	679	D	209	D	259	D,J	419	D,J	791	D
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g	199	U,D	41.7	U,D	40.6	D,UJ	39.9	D,UJ	207	U,D
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g	3860	D	1290	D,J	1940	D,J	2390	D,J	3730	D
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g	602	D	239	D,J	359	D,J	627	D,J	668	D
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g	12400	D	5830	D	8590	D,J	13400	D,J	14700	D
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g	105	D,G	21.6	D,G	48.1	D,J	55.5	D,J	128	D,G
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g	67.3	D,G	60.4	D,J	51.6	D,J	49.5	D,J	207	U,D
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g	3010	D	1150	D,J	1700	D,J	2510	D,J	3940	D
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g	510	D	190	D,J	273	D,J	307	D,J	376	D
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g	1020	D	369	D,J	347	D,J	477	D,J	1490	D
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g	667	D	109	D,J	191	D,J	152	D,J	762	D
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g	199	U,D	21.3	D,G,J	26.5	D,G,J	33.3	D,G,J	207	U,D
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g	1440	D	554	D,J	782	D,J	1470	D,J	2580	D
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g	3020	D	1170	D,J	2210	D,J	2840	D,J	6860	D

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g	381	D	122	D	187	D,J	273	D,J	335	D
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g	1540	D	553	D,J	728	D,J	810	D,J	1260	D
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g	5260	D	2360	D	2910	D,J	3860	D,J	5050	D
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g	447	D	174	D,J	344	D,J	487	D,J	1230	D
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g	114	D,G	62.5	D,J	68.8	D,J	80.1	D,J	113	D,G
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g	906	D	260	D,J	387	D,J	768	D,J	981	D
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g	925	D	407	D,J	606	D,J	548	D,J	419	D
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g	2960	D	1310	D,J	1940	D,J	2350	D,J	5710	D
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g	6110	D	1880	D,J	2770	D,J	3910	D,J	5680	D
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g	729	D	245	D,J	361	D,J	482	D,J	702	D
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g	1260	D	438	D	559	D	604	D	1280	D
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g	1770	D	634	D,J	982	D,J	1180	D,J	1510	D
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g	3940	D	1410	D,J	1960	D,J	2570	D,J	3950	D
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g	104000	D	44400	D	66900	D,J	82600	D,J	136000	D
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g	13300	D	3280	D	5990	D,J	9120	D,J	14000	D
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g	199	U,D	41.7	U,D	40.6	D,UJ	39.9	D,UJ	207	U,D
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g	475	D,J	129	D,J	188	D,J	216	D,J	394	D,J
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g	654	D	244	D	318	D,J	432	D,J	661	D
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g	3010	D	1090	D,J	1620	D,J	2010	D,J	2630	D
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g	995	D	258	D	314	D,J	406	D,J	1120	D
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g	2870	D	1080	D	1560	D,J	2020	D,J	2640	D
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g	1490	D	273	D,J	418	D,J	526	D,J	1700	D
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g	725	D	375	D,J	443	D,J	536	D,J	700	D
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g	1780	D	464	D,J	766	D,J	1010	D,J	1630	D
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g	199	U,D	41.7	U,D	40.6	D,UJ	39.9	D,UJ	207	U,D
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g	1300	D	378	D	565	D,J	705	D,J	1230	D
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g	3110	D	1200	D	1720	D,J	2320	D,J	3150	D
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g	1470	D	525	D,J	771	D,J	998	D,J	1360	D
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g	51.7	D,G	14.5	D,G,J	19.4	D,G,J	24	D,G,J	207	U,D
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g	294	D	140	D,J	175	D,J	217	D,J	483	D
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g	608	D	127	D,J	218	D,J	450	D,J	345	D
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g	117	D,G	42.8	D,J	57.4	D,J	64.7	D,J	128	D,G
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g	1440	D	461	D,J	688	D,J	873	D,J	1260	D
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g	199	U,D	41.7	D,UJ	40.6	D,UJ	39.9	D,UJ	207	U,D

Table A-2-1
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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g	199	U,D	41.7	U,D	40.6	U,D	39.9	U,D	207	U,D
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g	827	D	316	D	422	D	550	D	739	D
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g	124	D,G	54.9	D,J	87.9	D,J	118	D,J	283	D
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g	1110	D	339	D,J	498	D,J	590	D,J	846	D
PCB-106/118	PCB-106/118	SW8082A	pg/g	68000	D	27800	D,J	40200	D,J	51100	D,J	66500	D
PCB-107/109	PCB-107/109	SW8082A	pg/g	5880	D	2350	D,J	3360	D,J	4120	D,J	5810	D
PCB-108/112	PCB-108/112	SW8082A	pg/g	4460	D	1640	D,J	2480	D,J	3150	D,J	4270	D
PCB-111/115	PCB-111/115	SW8082A	pg/g	1560	D	514	D,J	742	D,J	996	D,J	1590	D
PCB-12/13	PCB-12/13	SW8082A	pg/g	8130	D	3580	D	4740	D	8320	D	11800	D
PCB-128/162	PCB-128/162	SW8082A	pg/g	12100	D	4750	DJ	6790	DJ	8250	DJ	11000	D
PCB-132/161	PCB-132/161	SW8082A	pg/g	26200	D	9260	D,J	13600	D,J	18000	D,J	25400	D
PCB-133/142	PCB-133/142	SW8082A	pg/g	2580	D	1030	D,J	1390	D,J	1860	D,J	2900	D
PCB-134/143	PCB-134/143	SW8082A	pg/g	4800	D	1710	D,J	2470	D,J	3260	D,J	5020	D
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g	95700	D	34800	D,J	51100	D,J	65100	D,J	95100	D
PCB-139/149	PCB-139/149	SW8082A	pg/g	102000	D	36600	D,J	52700	D,J	66700	D,J	114000	D
PCB-146/165	PCB-146/165	SW8082A	pg/g	14800	D	5680	D,J	7780	D,J	10500	D,J	17000	D
PCB-158/160	PCB-158/160	SW8082A	pg/g	11300	D	3750	D,J	5580	D,J	6930	D,J	11000	D
PCB-16/32	PCB-16/32	SW8082A	pg/g	42700	D	11600	D	19600	D,J	30300	D,J	50300	D
PCB-182/187	PCB-182/187	SW8082A	pg/g	50700	D	18400	D,J	25100	D,J	33900	D,J	55500	D
PCB-196/203	PCB-196/203	SW8082A	pg/g	26500	D	9360	D	11900	D	14400	D	25600	D
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g	45700	D	11200	D	20000	D,J	27300	D,J	57000	D
PCB-24/27	PCB-24/27	SW8082A	pg/g	6080	D	2120	D	3260	D,J	4920	D,J	7050	D
PCB-4/10	PCB-4/10	SW8082A	pg/g	13200	D	4350	D	5970	D	8320	D	10700	D
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g	81700	D		R		R	40100	D,J	80600	D
PCB-42/59	PCB-42/59	SW8082A	pg/g	29200	D	9610	D	14700	D,J	21900	D,J	28900	D
PCB-43/49	PCB-43/49	SW8082A	pg/g	75100	D	25200	D	37400	D,J	56200	D,J	86200	D
PCB-48/75	PCB-48/75	SW8082A	pg/g	17600	D	4280	D	8540	D,J	11500	D,J	19100	D
PCB-5/8	PCB-5/8	SW8082A	pg/g	36500	D	10300	D	15400	D	22400	D	28000	D
PCB-52/69	PCB-52/69	SW8082A	pg/g	92800	D	28200	D	44600	D,J	66600	D,J	105000	D
PCB-56/60	PCB-56/60	SW8082A	pg/g	49600	D	16800	D	25500	D,J	33700	D,J	46300	D
PCB-61/70	PCB-61/70	SW8082A	pg/g	89300	D	29700	D	45900	D,J	62800	D,J	101000	D
PCB-66/76	PCB-66/76	SW8082A	pg/g	76500	D	29200	D	42400	D,J	57200	D,J	82400	D
PCB-7/9	PCB-7/9	SW8082A	pg/g	3920	D	760	D	1230	D	1840	D	3030	D
PCB-84/92	PCB-84/92	SW8082A	pg/g	38700	D	14200	D,J	20600	D,J	27400	D,J	39200	D
PCB-85/116	PCB-85/116	SW8082A	pg/g	14600	D	5600	D,J	8650	D,J	10300	D,J	14000	D
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g	28700	D	10400	D,J	16200	D,J	19700	D,J	26600	D
PCB-88/91	PCB-88/91	SW8082A	pg/g	15800	D	5730	D,J	9240	D,J	12600	D,J	19000	D

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-03		NB02SED075F-04		NB02SED075F-05		NB02SED075F-06		NB02SED075F-07	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	1.5		2.5		3.5		5.5		7.5	
			End Depth	2.5		3.5		5.5		7.5		9.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g	97800	D	35500	D,J	51500	D,J	68000	D,J	106000	D
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g	77000	D	26400	D,J	41000	D,J	56000	D,J	79300	D
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg	260	D,P,NJ	48	JH		R		R	27	P,JH
93-76-5	2,4,5-T	SW8151	ug/kg	67	P,JH	30	P,JH		R	35	P,NJ	20	U
94-75-7	2,4-D	SW8151	ug/kg	160	P,NJ	98	U,M	150	P,NJ	170	P,NJ	78	U
94-82-6	2,4-DB	SW8151	ug/kg		R	82	P,NJ		R		R	74	P,NJ

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg	3000	B,D								
TEPH	TEPH	8015B	mg/kg										
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg										
1461-25-2	Tetrabutyltin	8315M	ug/kg										
56573-85-4	Tributyltin	8315M	ug/kg										
78763-54-9	Monobutyltin	8315M	ug/kg										
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um										
0.022	0.022 um	ASTM-D421	um										
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um										
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um										
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um										
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um										
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um										
0.045	0.045 um	ASTM-D421	um										
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um										
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um										
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um										
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um										
0.079	0.079	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um										
0.089	0.089 um	ASTM-D421	um										
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um										
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um										
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um										
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um										
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um										
0.178	0.178 um	ASTM-D421	um										
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um										
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um										
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um										
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um										
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um										
0.356	0.356 um	ASTM-D421	um										
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um										
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um										
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um										
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um										
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um										
0.710	0.710 um	ASTM-D421	um										
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um										
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um										
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um										
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um										
1.416	1.416 um	ASTM-D421	um										
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um										
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um										
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um										
100.237	100.237 um	ASTM-D421	um										
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um										
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um										
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um										
1124.683	1124.683 um	ASTM-D421	um										
12.619	12.619 um	ASTM-D421	um										
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um										
1261.915	1261.915 um	ASTM-D421	um										
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um										
141.589	141.589 um	ASTM-D421	um										
1415.892	1415.892 um	ASTM-D421	um										
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um										
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um										
1588.656	1588.656 um	ASTM-D421	um										
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um										
178.250	178.250 um	ASTM-D421	um										
1782.502	1782.502 um	ASTM-D421	um										
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um										
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um										
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um										
2.825	2.825 um	ASTM-D421	um										
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um										
200.000	200.000 um	ASTM-D421	um										
2000.000	2000.000 um	ASTM-D421	um										
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um										
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um										
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um										
251.785	251.785 um	ASTM-D421	um										
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um										
282.508	282.508 um	ASTM-D421	um										
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um										
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um										
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um										
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um										
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um										
355.656	355.656 um	ASTM-D421	um										
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um										
399.052	399.052 um	ASTM-D421	um										
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um										
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um										
447.744	447.744 um	ASTM-D421	um										
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um										
5.637	5.637 um	ASTM-D421	um										
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um										
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um										
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um										
563.677	563.677 um	ASTM-D421	um										
5754.399	5754.399	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um										
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um										
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um										
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um										
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um										
70.963	70.963 um	ASTM-D421	um										
709.627	709.627 um	ASTM-D421	um										
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um										
796.214	796.214 um	ASTM-D421	um										
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um										
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um										
893.367	893.367 um	ASTM-D421	um										
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um										
D[V,0.50]	D[v,0.50]	ASTM-D421	um										
D[V,0.90]	D[v,0.90]	ASTM-D421	um										
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g	201									
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	18.6									
30402-15-4	Total PeCDF	E1613B	pg/g	689	P								
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g	4600									

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g	321									
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g	587									
36088-22-9	Total PeCDD	E1613B	pg/g	101									
37871-00-4	Total HpCDD	E1613B	pg/g	1190									
38998-75-3	Total HcCDF	E1613B	pg/g	1030									
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g	808									
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	7.19									
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g	9.4									
41903-57-5	Total TCDD	E1613B	pg/g	283									
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g	80.2									
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g	23.5									
55684-94-1	Total HxCDF	E1613B	pg/g	620	P								
55722-27-5	Total TCDF	E1613B	pg/g	1140	P								
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g	39.3									
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g	24									
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	48.2	EMPC								
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g	40.8									
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g	23.8									
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g	576									
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g	102									
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g	3.13									
Metals													
57-12-5	Cyanide	E200.7	mg/kg	0.4	B								
7429-90-5	Aluminum	E200.7	mg/kg	15800									
7439-89-6	Iron	E200.7	mg/kg	27600									
7439-92-1	Lead	E200.7	mg/kg	257	N,JL								
7439-95-4	Magnesium	E200.7	mg/kg	7170									
7439-96-5	Manganese	E200.7	mg/kg	513									
7439-97-6	Mercury	E200.7	mg/kg	122									
7440-02-0	Nickel	E200.7	mg/kg	53.1									
7440-09-7	Potassium	E200.7	mg/kg	2540									
7440-22-4	Silver	E200.7	mg/kg	10.8	N,JL								
7440-23-5	Sodium	E200.7	mg/kg	5950	E,J								
7440-28-0	Thallium	E200.7	mg/kg	0.91	U								
7440-32-6	Titanium	E200.7	mg/kg	363									
7440-36-0	Antimony	E200.7	mg/kg	4.5	N,UJL								
7440-38-2	Arsenic	E200.7	mg/kg	30.3									

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg	252									
7440-41-7	Beryllium	E200.7	mg/kg	0.9									
7440-43-9	Cadmium	E200.7	mg/kg	5.7									
7440-47-3	Chromium	E200.7	mg/kg	212									
7440-48-4	Cobalt	E200.7	mg/kg	11.6									
7440-50-8	Copper	E200.7	mg/kg	346									
7440-62-2	Vanadium	E200.7	mg/kg	40.8									
7440-66-6	Zinc	E200.7	mg/kg	496	E,J								
7440-70-2	Calcium	E200.7	mg/kg	15800									
7782-49-2	Selenium	E200.7	mg/kg	0.55	B,N,JL								
9/7/7440	Potassium	E200.7	mg/kg	2540									
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg										
100-42-5	Styrene	E524	ug/kg										
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg										
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg										
106-46-7	1,4-Dichlorobenzene	E524	ug/kg	11	UJ								
107-06-2	1,2-Dichloroethane	E524	ug/kg										
108-10-1	4-Methyl-2-pentanone	E524	ug/kg										
108-88-3	Toluene	E524	ug/kg										
108-90-7	Chlorobenzene	E524	ug/kg	3.9	G								
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg	11	UJ								
124-48-1	Dibromochloromethane	E524	ug/kg										
127-18-4	Tetrachloroethene	E524	ug/kg										
1330-20-7	Xylenes (TOTAL)	E524	ug/kg										
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg										
541-73-1	1,3-Dichlorobenzene	E524	ug/kg	11	UJ								
56-23-5	Carbon Tetrachloride	E524	ug/kg										
591-78-6	2-Hexanone	E524	ug/kg										
67-64-1	Acetone	E524	ug/kg										
67-66-3	Chloroform	E524	ug/kg										
71-43-2	Benzene	E524	ug/kg										
71-55-6	1,1,1-Trichloroethane	E524	ug/kg										
74-83-9	Bromomethane	E524	ug/kg										
74-87-3	Chloromethane	E524	ug/kg										
75-00-3	Chloroethane	E524	ug/kg										
75-01-4	Vinyl Chloride	E524	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg										
75-15-0	Carbon Disulfide	E524	ug/kg										
75-25-2	Bromoform	E524	ug/kg										
75-27-4	Bromodichloromethane	E524	ug/kg										
75-34-3	1,1-Dichloroethane	E524	ug/kg										
75-35-4	1,1-Dichloroethene	E524	ug/kg										
78-87-5	1,2-Dichloropropane	E524	ug/kg										
78-93-3	2-Butanone	E524	ug/kg										
79-00-5	1,1,2-Trichloroethane	E524	ug/kg										
79-01-6	Trichloroethene	E524	ug/kg										
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg										
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg	11	UJ								
95-50-1	1,2-Dichlorobenzene	E524	ug/kg	11	UJ								
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg	1000	U,D								
100-02-7	4-Nitrophenol	E625	ug/kg	1000	U,D								
100-52-7	Benzaldehyde	E625	ug/kg	510	U,D								
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg	510	D,UJ								
105-60-2	Caprolactam	E625	ug/kg	510	U,D								
105-67-9	2,4-Dimethylphenol	E625	ug/kg	510	U,D								
106-44-5	4-Methylphenol	E625	ug/kg	510	U,D								
106-46-7	1,4-Dichlorobenzene	E625	ug/kg										
106-47-8	4-Chloroaniline	E625	ug/kg	87	G,D								
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg	510	U,D								
108-95-2	Phenol	E625	ug/kg	510	U,D								
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg	510	U,D								
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg	510	U,D								
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg	40000	E,B,D,J								
117-84-0	Di-n-octylphthalate	E625	ug/kg	420	G,D,J								
118-74-1	Hexachlorobenzene	E625	ug/kg	100	U,D								
120-12-7	Anthracene	E625	ug/kg	4200	D								
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg										
120-83-2	2,4-Dichlorophenol	E625	ug/kg	510	U,D								
121-14-2	2,4-Dinitrotoluene	E625	ug/kg	510	U,D								
129-00-0	Pyrene	E625	ug/kg	9200	E,D,J								
131-11-3	Dimethylphthalate	E625	ug/kg	510	U,D								
132-64-9	Dibenzofuran	E625	ug/kg	1000	D								

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg	510	U,D								
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg	420	G,D								
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg	420	G,D								
205-99-2	Benzo(b)fluoranthene	E625	ug/kg	2000	D								
206-44-0	Fluoranthene	E625	ug/kg	20000	E,D,J								
207-08-9	Benzo(k)fluoranthene	E625	ug/kg	2400	D,J								
208-96-8	Acenaphthylene	E625	ug/kg	140	D								
218-01-9	Chrysene	E625	ug/kg	3300	D								
50-32-8	Benzo(a)pyrene	E625	ug/kg	1600	D								
51-28-5	2,4-Dinitrophenol	E625	ug/kg	1000	U,D								
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg	1000	U,D								
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg	280	D								
541-73-1	1,3-Dichlorobenzene	E625	ug/kg										
56-55-3	Benzo(a)anthracene	E625	ug/kg	3200	D								
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg	510	U,D								
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg	510	U,D								
606-20-2	2,6-Dinitrotoluene	E625	ug/kg	510	U,D								
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg	510	U,D								
67-72-1	Hexachloroethane	E625	ug/kg	510	U,D								
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg	510	U,D								
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg		R								
78-59-1	Isophorone	E625	ug/kg	510	U,D								
83-32-9	Acenaphthene	E625	ug/kg	2800	D								
84-66-2	Diethylphthalate	E625	ug/kg	510	U,D								
84-74-2	Di-n-butylphthalate	E625	ug/kg	510	U,D								
85-01-8	Phenanthrene	E625	ug/kg	7900	D								
85-68-7	Butylbenzylphthalate	E625	ug/kg	58	G,D								
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg	510	U,D								
86-73-7	Fluorene	E625	ug/kg	2800	D								
86-74-8	Carbazole	E625	ug/kg	550	D								
87-68-3	Hexachlorobutadiene	E625	ug/kg	510	U,D								
87-86-5	Pentachlorophenol	E625	ug/kg	200	D,UJ								
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg	510	U,D								
88-74-4	2-Nitroaniline	E625	ug/kg	1000	U,D								
88-75-5	2-Nitrophenol	E625	ug/kg	510	U,D								
91-20-3	Naphthalene	E625	ug/kg	1000	B,D								
91-57-6	2-Methylnaphthalene	E625	ug/kg	330	D								

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg	510	U,D								
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg	510	U,D								
92-52-4	1,1'-Biphenyl	E625	ug/kg	510	U,D								
95-48-7	2-Methylphenol	E625	ug/kg	510	U,D								
95-50-1	1,2-Dichlorobenzene	E625	ug/kg										
95-57-8	2-Chlorophenol	E625	ug/kg	510	U,D								
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg	510	U,D								
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg	510	U,D								
98-86-2	Acetophenone	E625	ug/kg	510	U,D								
98-95-3	Nitrobenzene	E625	ug/kg	510	U,D								
99-09-2	3-Nitroaniline	E625	ug/kg	1000	U,D								
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%	81.8									
SG	Specific Gravity	MISC	sg	2.741									
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg	26400									
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g			0.156		0.114		0.199		0.25	
13966-02-4	Beryllium-7	RadChem	pci/g										
14255-04-0	Lead-210	RadChem	pci/g			3.14		2.89		2.51		2.26	
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg		R								
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg	6.1	U								
309-00-2	Aldrin	SW8080	ug/kg		R								
319-84-6	alpha-BHC	SW8080	ug/kg	2.7	G,P,J								
319-85-7	beta-BHC	SW8080	ug/kg	3	U								
319-86-8	delta-BHC	SW8080	ug/kg	3	U								
33213-65-9	Endosulfan II	SW8080	ug/kg	6.1	U								
3424-82-6	2,4'-DDE	SW8080	ug/kg	13	P,NJ								
50-29-3	4,4'-DDT	SW8080	ug/kg		R								
5103-71-9	alpha-Chlordane	SW8080	ug/kg	6.8									
5103-74-2	gamma-Chlordane	SW8080	ug/kg	12	P,NJ								
53-19-0	2,4'-DDD	SW8080	ug/kg	5.3	G,P,J								
53494-70-5	Endrin Ketone	SW8080	ug/kg	6.1	U								
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg	3	U								
60-57-1	Dieldrin	SW8080	ug/kg	6.1	U								
72-20-8	Endrin	SW8080	ug/kg	6.1	U								

Table A-2-1
Sediment Data
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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg	30	U								
72-54-8	4,4'-DDD	SW8080	ug/kg	8.8									
72-55-9	4,4'-DDE	SW8080	ug/kg	35	P,J								
7421-93-4	Endrin aldehyde	SW8080	ug/kg	7.2	P,NJ								
76-44-8	Heptachlor	SW8080	ug/kg	6									
789-02-6	2,4'-DDT	SW8080	ug/kg	6	U								
8001-35-2	Toxaphene	SW8080	ug/kg	300	U								
959-98-8	Endosulfan I	SW8080	ug/kg	3	U								
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg	61	U								
11096-82-5	Aroclor 1260	SW8081	ug/kg	250									
11097-69-1	Aroclor 1254	SW8081	ug/kg	530									
11104-28-2	Aroclor 1221	SW8081	ug/kg	61	U								
11141-16-5	Aroclor 1232	SW8081	ug/kg	61	U								
12672-29-6	Aroclor 1248	SW8081	ug/kg	61	U								
12674-11-2	Aroclor 1016	SW8081	ug/kg	61	U								
37324-23-5	Aroclor 1262	SW8081	ug/kg	61	U								
53469-21-9	Aroclor 1242	SW8081	ug/kg	590									
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g	349	D,J								
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g	305	D,J								
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g	78800	D,J								
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g	17900	D,J								
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g	28500	D,J								
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g	5050	D								
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g	2390	D,J								
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g	976	D,J								
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g	1920	D,J								
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g	3530	D								
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g	24100	D,J								
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g	9200	D,J								
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g	7520	D,J								
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g	20000	D,J								
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g	31600	D,J								
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g	36.1	D,G,J								
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g	571	D								
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g	40.7	D,UJ								

Table A-2-1
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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g	62.8	D,J								
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g	487	D,J								
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g	45.7	D,UJ								
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g	83200	D,J								
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g	54800	D,J								
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g	20600	D,J								
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g	68.9	D,J								
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g	3150	D,J								
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g	13200	D								
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g	67100	D,J								
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g	32100	D,J								
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g	686	D,J								
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g	2820	D,J								
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g	42100	D,J								
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g	95700	D,J								
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g	6660	D,J								
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g	12900	D,J								
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g	26700	D,J								
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g	6380	D,J								
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g	16300	D,J								
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g	29300	D,J								
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g	76	D,J								
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g	262	D,J								
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g	20900	D,J								
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g		R								
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g	1200	D,J								
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g	809	D,J								
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g	40.7	D,UJ								
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g	40.7	D,UJ								
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g	1200	D,J								
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g	2140	D								
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g	7130	D								
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g	246	D,J								
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g	4530	D,J								
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g	77900	D,J								
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g	11700	D,J								
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g	5210	D,J								

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g	890	D,J								
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g	325	D,J								
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g	25600	D,J								
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g	8990	D,J								
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g	23800	D,J								
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g	13800	D,J								
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g	3880	D,J								
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g	4610	D,J								
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g	6110	D,J								
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g	15400	D,J								
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g	14900	D,J								
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g	5920	D,J								
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g	2710	D,J								
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g	2130	D								
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g	3730	D,J								
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g	16600	D								
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g	2230	D								
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g	5730	D								
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g	815	D								
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g	15100	D,J								
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g	3010	D,J								
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g	12000	D,J								
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g	492	D,J								
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g	40.7	D,UJ								
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g	2970	D,J								
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g	719	D,J								
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g	10400	D,J								
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g	87.2	D,J								
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g	31.6	D,G,J								
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g	2950	D,J								
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g	40.7	D,UJ								
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g	351	D,J								
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g	608	D,J								
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g	214	D,J								
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g	44.3	D,J								
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g	1490	D,J								
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g	3430	D,J								

Table A-2-1
Sediment Data
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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g	40.7	D,UJ								
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g	356	D,J								
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g	1050	D,J								
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g	4170	D,J								
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g	518	D,J								
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g	87.9	D,J								
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g	565	D,J								
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g	467	D,J								
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g	2880	D,J								
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g	4520	D,J								
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g	558	D,J								
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g	893	D								
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g	1430	D,J								
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g	2970	D,J								
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g	98000	D,J								
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g	12300	D,J								
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g	40.7	D,UJ								
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g	288	D,J								
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g	462	D,J								
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g	2570	D,J								
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g		R								
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g	2340	D,J								
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g	713	D,J								
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g	598	D,J								
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g	40.7	D,UJ								
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g	1400	D,J								
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g	40.7	D,UJ								
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g	790	D,J								
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g	2890	D,J								
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g	1330	D,J								
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g	35.1	D,G,J								
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g	290	D,J								
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g	296	D,J								
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g	83.1	D,J								
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g	40.7	D,UJ								
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g	992	D,J								
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g	40.7	D,UJ								

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g	40.7	U,D								
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g	614	D								
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g	143	D,J								
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g	803	D,J								
PCB-106/118	PCB-106/118	SW8082A	pg/g	63300	D,J								
PCB-107/109	PCB-107/109	SW8082A	pg/g	5250	D,J								
PCB-108/112	PCB-108/112	SW8082A	pg/g	4120	D,J								
PCB-111/115	PCB-111/115	SW8082A	pg/g	1220	D,J								
PCB-12/13	PCB-12/13	SW8082A	pg/g	11300	D,J								
PCB-128/162	PCB-128/162	SW8082A	pg/g	9430	DJ								
PCB-132/161	PCB-132/161	SW8082A	pg/g	22400	D,J								
PCB-133/142	PCB-133/142	SW8082A	pg/g	2400	D,J								
PCB-134/143	PCB-134/143	SW8082A	pg/g	4190	D,J								
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g	76000	D,J								
PCB-139/149	PCB-139/149	SW8082A	pg/g	79800	D,J								
PCB-146/165	PCB-146/165	SW8082A	pg/g	13000	D,J								
PCB-158/160	PCB-158/160	SW8082A	pg/g	8440	D,J								
PCB-16/32	PCB-16/32	SW8082A	pg/g	43100	D,J								
PCB-182/187	PCB-182/187	SW8082A	pg/g	38900	D,J								
PCB-196/203	PCB-196/203	SW8082A	pg/g	16900	D								
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g	43600	D,J								
PCB-24/27	PCB-24/27	SW8082A	pg/g	5580	D,J								
PCB-4/10	PCB-4/10	SW8082A	pg/g	13100	D,J								
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g	50200	D,J								
PCB-42/59	PCB-42/59	SW8082A	pg/g	26400	D,J								
PCB-43/49	PCB-43/49	SW8082A	pg/g	69100	D,J								
PCB-48/75	PCB-48/75	SW8082A	pg/g	16200	D,J								
PCB-5/8	PCB-5/8	SW8082A	pg/g	34700	D,J								
PCB-52/69	PCB-52/69	SW8082A	pg/g	87300	D,J								
PCB-56/60	PCB-56/60	SW8082A	pg/g	41900	D,J								
PCB-61/70	PCB-61/70	SW8082A	pg/g	88800	D,J								
PCB-66/76	PCB-66/76	SW8082A	pg/g	72000	D,J								
PCB-7/9	PCB-7/9	SW8082A	pg/g	3920	D,J								
PCB-84/92	PCB-84/92	SW8082A	pg/g	35700	D,J								
PCB-85/116	PCB-85/116	SW8082A	pg/g	13000	D,J								
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g	25300	D,J								
PCB-88/91	PCB-88/91	SW8082A	pg/g	15500	D,J								

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-08		NB02SED075F-31		NB02SED075F-32		NB02SED075F-33		NB02SED075F-34	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	9.5		0		0.25		0.5		1.5	
			End Depth	10.6999998092651		0.25		0.5		1.5		2.5	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g	90000	D,J								
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g	73200	D,J								
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg	84	P,NJ								
93-76-5	2,4,5-T	SW8151	ug/kg	29	P,NJ								
94-75-7	2,4-D	SW8151	ug/kg	73	U								
94-82-6	2,4-DB	SW8151	ug/kg		R								

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg										
TEPH	TEPH	8015B	mg/kg										
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg										
1461-25-2	Tetrabutyltin	8315M	ug/kg										
56573-85-4	Tributyltin	8315M	ug/kg										
78763-54-9	Monobutyltin	8315M	ug/kg										
Grain Size Distribution													
0.01	0.01	ASTM-D421	um										
0.011	0.011	ASTM-D421	um										
0.013	0.013	ASTM-D421	um										
0.015	0.015	ASTM-D421	um										
0.017	0.017	ASTM-D421	um										
0.02	0.02	ASTM-D421	um										
0.020	0.020 um	ASTM-D421	um										
0.022	0.022 um	ASTM-D421	um										
0.023	0.023	ASTM-D421	um										
0.025	0.025 um	ASTM-D421	um										
0.026	0.026	ASTM-D421	um										
0.028	0.028 um	ASTM-D421	um										
0.03	0.03	ASTM-D421	um										
0.032	0.032 um	ASTM-D421	um										
0.035	0.035	ASTM-D421	um										
0.036	0.036 um	ASTM-D421	um										
0.04	0.04	ASTM-D421	um										
0.040	0.040 um	ASTM-D421	um										
0.045	0.045 um	ASTM-D421	um										
0.046	0.046	ASTM-D421	um										
0.050	0.050 um	ASTM-D421	um										
0.052	0.052	ASTM-D421	um										
0.056	0.056 um	ASTM-D421	um										
0.06	0.06	ASTM-D421	um										
0.063	0.063 um	ASTM-D421	um										
0.069	0.069	ASTM-D421	um										
0.071	0.071 um	ASTM-D421	um										
0.079	0.079	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um										
0.089	0.089 um	ASTM-D421	um										
0.091	0.091	ASTM-D421	um										
0.100	0.100 um	ASTM-D421	um										
0.105	0.105	ASTM-D421	um										
0.112	0.112 um	ASTM-D421	um										
0.12	0.12	ASTM-D421	um										
0.126	0.126 um	ASTM-D421	um										
0.138	0.138	ASTM-D421	um										
0.142	0.142 um	ASTM-D421	um										
0.158	0.158	ASTM-D421	um										
0.159	0.159 um	ASTM-D421	um										
0.178	0.178 um	ASTM-D421	um										
0.182	0.182	ASTM-D421	um										
0.200	0.200 um	ASTM-D421	um										
0.209	0.209	ASTM-D421	um										
0.224	0.224 um	ASTM-D421	um										
0.24	0.24	ASTM-D421	um										
0.252	0.252 um	ASTM-D421	um										
0.275	0.275	ASTM-D421	um										
0.283	0.283 um	ASTM-D421	um										
0.316	0.316	ASTM-D421	um										
0.317	0.317 um	ASTM-D421	um										
0.356	0.356 um	ASTM-D421	um										
0.363	0.363	ASTM-D421	um										
0.399	0.399 um	ASTM-D421	um										
0.417	0.417	ASTM-D421	um										
0.448	0.448 um	ASTM-D421	um										
0.479	0.479	ASTM-D421	um										
0.502	0.502 um	ASTM-D421	um										
0.55	0.55	ASTM-D421	um										
0.564	0.564 um	ASTM-D421	um										
0.631	0.631	ASTM-D421	um										
0.632	0.632 um	ASTM-D421	um										
0.710	0.710 um	ASTM-D421	um										
0.724	0.724	ASTM-D421	um										
0.796	0.796 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um										
0.893	0.893 um	ASTM-D421	um										
0.955	0.955	ASTM-D421	um										
1.002	1.002 um	ASTM-D421	um										
1.096	1.096	ASTM-D421	um										
1.125	1.125 um	ASTM-D421	um										
1.259	1.259	ASTM-D421	um										
1.262	1.262 um	ASTM-D421	um										
1.416	1.416 um	ASTM-D421	um										
1.445	1.445	ASTM-D421	um										
1.589	1.589 um	ASTM-D421	um										
1.66	1.66	ASTM-D421	um										
1.783	1.783 um	ASTM-D421	um										
1.905	1.905	ASTM-D421	um										
10	10	ASTM-D421	um										
10.024	10.024 um	ASTM-D421	um										
100.237	100.237 um	ASTM-D421	um										
10000	10000	ASTM-D421	um										
1002.374	1002.374 um	ASTM-D421	um										
104.713	104.713	ASTM-D421	um										
1096.478	1096.478	ASTM-D421	um										
11.247	11.247 um	ASTM-D421	um										
11.482	11.482	ASTM-D421	um										
112.468	112.468 um	ASTM-D421	um										
1124.683	1124.683 um	ASTM-D421	um										
12.619	12.619 um	ASTM-D421	um										
120.226	120.226	ASTM-D421	um										
1258.925	1258.925	ASTM-D421	um										
126.191	126.191 um	ASTM-D421	um										
1261.915	1261.915 um	ASTM-D421	um										
13.183	13.183	ASTM-D421	um										
138.038	138.038	ASTM-D421	um										
14.159	14.159 um	ASTM-D421	um										
141.589	141.589 um	ASTM-D421	um										
1415.892	1415.892 um	ASTM-D421	um										
1445.44	1445.44	ASTM-D421	um										
15.136	15.136	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um										
158.489	158.489	ASTM-D421	um										
158.866	158.866 um	ASTM-D421	um										
1588.656	1588.656 um	ASTM-D421	um										
1659.587	1659.587	ASTM-D421	um										
17.378	17.378	ASTM-D421	um										
17.825	17.825 um	ASTM-D421	um										
178.250	178.250 um	ASTM-D421	um										
1782.502	1782.502 um	ASTM-D421	um										
181.97	181.97	ASTM-D421	um										
19.953	19.953	ASTM-D421	um										
1905.461	1905.461	ASTM-D421	um										
2.000	2.000 um	ASTM-D421	um										
2.188	2.188	ASTM-D421	um										
2.244	2.244 um	ASTM-D421	um										
2.512	2.512	ASTM-D421	um										
2.518	2.518 um	ASTM-D421	um										
2.825	2.825 um	ASTM-D421	um										
2.884	2.884	ASTM-D421	um										
20.000	20.000 um	ASTM-D421	um										
200.000	200.000 um	ASTM-D421	um										
2000.000	2000.000 um	ASTM-D421	um										
208.93	208.93	ASTM-D421	um										
2187.762	2187.762	ASTM-D421	um										
22.440	22.440 um	ASTM-D421	um										
22.909	22.909	ASTM-D421	um										
224.404	224.404 um	ASTM-D421	um										
239.883	239.883	ASTM-D421	um										
25.179	25.179 um	ASTM-D421	um										
251.785	251.785 um	ASTM-D421	um										
2511.886	2511.886	ASTM-D421	um										
26.303	26.303	ASTM-D421	um										
275.423	275.423	ASTM-D421	um										
28.251	28.251 um	ASTM-D421	um										
282.508	282.508 um	ASTM-D421	um										
2884.032	2884.032	ASTM-D421	um										
3.170	3.170 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um										
3.557	3.557 um	ASTM-D421	um										
3.802	3.802	ASTM-D421	um										
3.991	3.991 um	ASTM-D421	um										
30.2	30.2	ASTM-D421	um										
31.698	31.698 um	ASTM-D421	um										
316.228	316.228	ASTM-D421	um										
316.979	316.979 um	ASTM-D421	um										
3311.311	3311.311	ASTM-D421	um										
34.674	34.674	ASTM-D421	um										
35.566	35.566 um	ASTM-D421	um										
355.656	355.656 um	ASTM-D421	um										
363.078	363.078	ASTM-D421	um										
3801.894	3801.894	ASTM-D421	um										
39.811	39.811	ASTM-D421	um										
39.905	39.905 um	ASTM-D421	um										
399.052	399.052 um	ASTM-D421	um										
4.365	4.365	ASTM-D421	um										
4.477	4.477 um	ASTM-D421	um										
416.869	416.869	ASTM-D421	um										
4365.158	4365.158	ASTM-D421	um										
44.774	44.774 um	ASTM-D421	um										
447.744	447.744 um	ASTM-D421	um										
45.709	45.709	ASTM-D421	um										
478.63	478.63	ASTM-D421	um										
5.012	5.012	ASTM-D421	um										
5.024	5.024 um	ASTM-D421	um										
5.637	5.637 um	ASTM-D421	um										
5.754	5.754	ASTM-D421	um										
50.238	50.238 um	ASTM-D421	um										
5011.872	5011.872	ASTM-D421	um										
502.377	502.377 um	ASTM-D421	um										
52.481	52.481	ASTM-D421	um										
549.541	549.541	ASTM-D421	um										
56.368	56.368 um	ASTM-D421	um										
563.677	563.677 um	ASTM-D421	um										
5754.399	5754.399	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um										
6.607	6.607	ASTM-D421	um										
60.256	60.256	ASTM-D421	um										
63.246	63.246 um	ASTM-D421	um										
630.957	630.957	ASTM-D421	um										
632.456	632.456 um	ASTM-D421	um										
6606.934	6606.934	ASTM-D421	um										
69.183	69.183	ASTM-D421	um										
7.096	7.096 um	ASTM-D421	um										
7.586	7.586	ASTM-D421	um										
7.962	7.962 um	ASTM-D421	um										
70.963	70.963 um	ASTM-D421	um										
709.627	709.627 um	ASTM-D421	um										
724.436	724.436	ASTM-D421	um										
7585.776	7585.776	ASTM-D421	um										
79.433	79.433	ASTM-D421	um										
79.621	79.621 um	ASTM-D421	um										
796.214	796.214 um	ASTM-D421	um										
8.71	8.71	ASTM-D421	um										
8.934	8.934 um	ASTM-D421	um										
831.764	831.764	ASTM-D421	um										
8709.636	8709.636	ASTM-D421	um										
89.337	89.337 um	ASTM-D421	um										
893.367	893.367 um	ASTM-D421	um										
91.201	91.201	ASTM-D421	um										
954.993	954.993	ASTM-D421	um										
d (0.1)	d (0.1)	ASTM-D421	um										
d (0.5)	d (0.5)	ASTM-D421	um										
d (0.9)	d (0.9)	ASTM-D421	um										
D[V,0.10]	D[v,0.10]	ASTM-D421	um										
D[V,0.50]	D[v,0.50]	ASTM-D421	um										
D[V,0.90]	D[v,0.90]	ASTM-D421	um										
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g										
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g										
30402-15-4	Total PeCDF	E1613B	pg/g										
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g										
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g										
36088-22-9	Total PeCDD	E1613B	pg/g										
37871-00-4	Total HpCDD	E1613B	pg/g										
38998-75-3	Total HcCDF	E1613B	pg/g										
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g										
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g										
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g										
41903-57-5	Total TCDD	E1613B	pg/g										
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g										
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g										
55684-94-1	Total HxCDF	E1613B	pg/g										
55722-27-5	Total TCDF	E1613B	pg/g										
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g										
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g										
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g										
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g										
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g										
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g										
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g										
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g										
Metals													
57-12-5	Cyanide	E200.7	mg/kg										
7429-90-5	Aluminum	E200.7	mg/kg										
7439-89-6	Iron	E200.7	mg/kg										
7439-92-1	Lead	E200.7	mg/kg										
7439-95-4	Magnesium	E200.7	mg/kg										
7439-96-5	Manganese	E200.7	mg/kg										
7439-97-6	Mercury	E200.7	mg/kg										
7440-02-0	Nickel	E200.7	mg/kg										
7440-09-7	Potassium	E200.7	mg/kg										
7440-22-4	Silver	E200.7	mg/kg										
7440-23-5	Sodium	E200.7	mg/kg										
7440-28-0	Thallium	E200.7	mg/kg										
7440-32-6	Titanium	E200.7	mg/kg										
7440-36-0	Antimony	E200.7	mg/kg										
7440-38-2	Arsenic	E200.7	mg/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg										
7440-41-7	Beryllium	E200.7	mg/kg										
7440-43-9	Cadmium	E200.7	mg/kg										
7440-47-3	Chromium	E200.7	mg/kg										
7440-48-4	Cobalt	E200.7	mg/kg										
7440-50-8	Copper	E200.7	mg/kg										
7440-62-2	Vanadium	E200.7	mg/kg										
7440-66-6	Zinc	E200.7	mg/kg										
7440-70-2	Calcium	E200.7	mg/kg										
7782-49-2	Selenium	E200.7	mg/kg										
9/7/7440	Potassium	E200.7	mg/kg										
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg										
100-42-5	Styrene	E524	ug/kg										
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg										
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg										
106-46-7	1,4-Dichlorobenzene	E524	ug/kg										
107-06-2	1,2-Dichloroethane	E524	ug/kg										
108-10-1	4-Methyl-2-pentanone	E524	ug/kg										
108-88-3	Toluene	E524	ug/kg										
108-90-7	Chlorobenzene	E524	ug/kg										
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg										
124-48-1	Dibromochloromethane	E524	ug/kg										
127-18-4	Tetrachloroethene	E524	ug/kg										
1330-20-7	Xylenes (TOTAL)	E524	ug/kg										
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg										
541-73-1	1,3-Dichlorobenzene	E524	ug/kg										
56-23-5	Carbon Tetrachloride	E524	ug/kg										
591-78-6	2-Hexanone	E524	ug/kg										
67-64-1	Acetone	E524	ug/kg										
67-66-3	Chloroform	E524	ug/kg										
71-43-2	Benzene	E524	ug/kg										
71-55-6	1,1,1-Trichloroethane	E524	ug/kg										
74-83-9	Bromomethane	E524	ug/kg										
74-87-3	Chloromethane	E524	ug/kg										
75-00-3	Chloroethane	E524	ug/kg										
75-01-4	Vinyl Chloride	E524	ug/kg										

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			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg										
75-15-0	Carbon Disulfide	E524	ug/kg										
75-25-2	Bromoform	E524	ug/kg										
75-27-4	Bromodichloromethane	E524	ug/kg										
75-34-3	1,1-Dichloroethane	E524	ug/kg										
75-35-4	1,1-Dichloroethene	E524	ug/kg										
78-87-5	1,2-Dichloropropane	E524	ug/kg										
78-93-3	2-Butanone	E524	ug/kg										
79-00-5	1,1,2-Trichloroethane	E524	ug/kg										
79-01-6	Trichloroethene	E524	ug/kg										
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg										
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg										
95-50-1	1,2-Dichlorobenzene	E524	ug/kg										
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg										
100-02-7	4-Nitrophenol	E625	ug/kg										
100-52-7	Benzaldehyde	E625	ug/kg										
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg										
105-60-2	Caprolactam	E625	ug/kg										
105-67-9	2,4-Dimethylphenol	E625	ug/kg										
106-44-5	4-Methylphenol	E625	ug/kg										
106-46-7	1,4-Dichlorobenzene	E625	ug/kg										
106-47-8	4-Chloroaniline	E625	ug/kg										
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg										
108-95-2	Phenol	E625	ug/kg										
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg										
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg										
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg										
117-84-0	Di-n-octylphthalate	E625	ug/kg										
118-74-1	Hexachlorobenzene	E625	ug/kg										
120-12-7	Anthracene	E625	ug/kg										
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg										
120-83-2	2,4-Dichlorophenol	E625	ug/kg										
121-14-2	2,4-Dinitrotoluene	E625	ug/kg										
129-00-0	Pyrene	E625	ug/kg										
131-11-3	Dimethylphthalate	E625	ug/kg										
132-64-9	Dibenzofuran	E625	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg										
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg										
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg										
205-99-2	Benzo(b)fluoranthene	E625	ug/kg										
206-44-0	Fluoranthene	E625	ug/kg										
207-08-9	Benzo(k)fluoranthene	E625	ug/kg										
208-96-8	Acenaphthylene	E625	ug/kg										
218-01-9	Chrysene	E625	ug/kg										
50-32-8	Benzo(a)pyrene	E625	ug/kg										
51-28-5	2,4-Dinitrophenol	E625	ug/kg										
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg										
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg										
541-73-1	1,3-Dichlorobenzene	E625	ug/kg										
56-55-3	Benzo(a)anthracene	E625	ug/kg										
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg										
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg										
606-20-2	2,6-Dinitrotoluene	E625	ug/kg										
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg										
67-72-1	Hexachloroethane	E625	ug/kg										
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg										
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg										
78-59-1	Isophorone	E625	ug/kg										
83-32-9	Acenaphthene	E625	ug/kg										
84-66-2	Diethylphthalate	E625	ug/kg										
84-74-2	Di-n-butylphthalate	E625	ug/kg										
85-01-8	Phenanthrene	E625	ug/kg										
85-68-7	Butylbenzylphthalate	E625	ug/kg										
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg										
86-73-7	Fluorene	E625	ug/kg										
86-74-8	Carbazole	E625	ug/kg										
87-68-3	Hexachlorobutadiene	E625	ug/kg										
87-86-5	Pentachlorophenol	E625	ug/kg										
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg										
88-74-4	2-Nitroaniline	E625	ug/kg										
88-75-5	2-Nitrophenol	E625	ug/kg										
91-20-3	Naphthalene	E625	ug/kg										
91-57-6	2-Methylnaphthalene	E625	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg										
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg										
92-52-4	1,1'-Biphenyl	E625	ug/kg										
95-48-7	2-Methylphenol	E625	ug/kg										
95-50-1	1,2-Dichlorobenzene	E625	ug/kg										
95-57-8	2-Chlorophenol	E625	ug/kg										
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg										
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg										
98-86-2	Acetophenone	E625	ug/kg										
98-95-3	Nitrobenzene	E625	ug/kg										
99-09-2	3-Nitroaniline	E625	ug/kg										
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%										
SG	Specific Gravity	MISC	sg										
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg										
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g	0.19		0.158		0.069	G	0.085		0.08	G
13966-02-4	Beryllium-7	RadChem	pci/g										
14255-04-0	Lead-210	RadChem	pci/g	2.74		2.62		1.26		1.77		1.35	
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg										
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg										
309-00-2	Aldrin	SW8080	ug/kg										
319-84-6	alpha-BHC	SW8080	ug/kg										
319-85-7	beta-BHC	SW8080	ug/kg										
319-86-8	delta-BHC	SW8080	ug/kg										
33213-65-9	Endosulfan II	SW8080	ug/kg										
3424-82-6	2,4'-DDE	SW8080	ug/kg										
50-29-3	4,4'-DDT	SW8080	ug/kg										
5103-71-9	alpha-Chlordane	SW8080	ug/kg										
5103-74-2	gamma-Chlordane	SW8080	ug/kg										
53-19-0	2,4'-DDD	SW8080	ug/kg										
53494-70-5	Endrin Ketone	SW8080	ug/kg										
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg										
60-57-1	Dieldrin	SW8080	ug/kg										
72-20-8	Endrin	SW8080	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg										
72-54-8	4,4'-DDD	SW8080	ug/kg										
72-55-9	4,4'-DDE	SW8080	ug/kg										
7421-93-4	Endrin aldehyde	SW8080	ug/kg										
76-44-8	Heptachlor	SW8080	ug/kg										
789-02-6	2,4'-DDT	SW8080	ug/kg										
8001-35-2	Toxaphene	SW8080	ug/kg										
959-98-8	Endosulfan I	SW8080	ug/kg										
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg										
11096-82-5	Aroclor 1260	SW8081	ug/kg										
11097-69-1	Aroclor 1254	SW8081	ug/kg										
11104-28-2	Aroclor 1221	SW8081	ug/kg										
11141-16-5	Aroclor 1232	SW8081	ug/kg										
12672-29-6	Aroclor 1248	SW8081	ug/kg										
12674-11-2	Aroclor 1016	SW8081	ug/kg										
37324-23-5	Aroclor 1262	SW8081	ug/kg										
53469-21-9	Aroclor 1242	SW8081	ug/kg										
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g										
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g										
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g										
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g										
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g										
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g										
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g										
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g										
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g										
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g										
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g										
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g										
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g										
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g										
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g										
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g										
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g										
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g										

Table A-2-1
Sediment Data
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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g										
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g										
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g										
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g										
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g										
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g										
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g										
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g										
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g										
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g										
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g										
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g										
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g										
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g										
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g										
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g										
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g										
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g										
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g										
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g										
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g										
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g										
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g										
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g										
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g										
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g										
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g										
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g										
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g										
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g										
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g										
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g										
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g										
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g										
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g										
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g										
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g										
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g										
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g										
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g										
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g										
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g										
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g										
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g										
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g										
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g										
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g										
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g										
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g										
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g										
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g										
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g										
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g										
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g										
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g										
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g										
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g										
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g										
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g										
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g										
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g										
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g										
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g										
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g										
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g										
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g										
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g										
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g										
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g										
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g										
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g										
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g										
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g										
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g										
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g										
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g										
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g										
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g										
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g										
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g										
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g										
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g										
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g										
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g										
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g										
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g										
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g										
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g										
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g										
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g										
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g										
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g										
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g										
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g										
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g										
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g										
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g										
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g										
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g										
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g										
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g										
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g										
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g										
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g										
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g										
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g										
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g										
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g										
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g										
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g										
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g										
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g										
PCB-106/118	PCB-106/118	SW8082A	pg/g										
PCB-107/109	PCB-107/109	SW8082A	pg/g										
PCB-108/112	PCB-108/112	SW8082A	pg/g										
PCB-111/115	PCB-111/115	SW8082A	pg/g										
PCB-12/13	PCB-12/13	SW8082A	pg/g										
PCB-128/162	PCB-128/162	SW8082A	pg/g										
PCB-132/161	PCB-132/161	SW8082A	pg/g										
PCB-133/142	PCB-133/142	SW8082A	pg/g										
PCB-134/143	PCB-134/143	SW8082A	pg/g										
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g										
PCB-139/149	PCB-139/149	SW8082A	pg/g										
PCB-146/165	PCB-146/165	SW8082A	pg/g										
PCB-158/160	PCB-158/160	SW8082A	pg/g										
PCB-16/32	PCB-16/32	SW8082A	pg/g										
PCB-182/187	PCB-182/187	SW8082A	pg/g										
PCB-196/203	PCB-196/203	SW8082A	pg/g										
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g										
PCB-24/27	PCB-24/27	SW8082A	pg/g										
PCB-4/10	PCB-4/10	SW8082A	pg/g										
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g										
PCB-42/59	PCB-42/59	SW8082A	pg/g										
PCB-43/49	PCB-43/49	SW8082A	pg/g										
PCB-48/75	PCB-48/75	SW8082A	pg/g										
PCB-5/8	PCB-5/8	SW8082A	pg/g										
PCB-52/69	PCB-52/69	SW8082A	pg/g										
PCB-56/60	PCB-56/60	SW8082A	pg/g										
PCB-61/70	PCB-61/70	SW8082A	pg/g										
PCB-66/76	PCB-66/76	SW8082A	pg/g										
PCB-7/9	PCB-7/9	SW8082A	pg/g										
PCB-84/92	PCB-84/92	SW8082A	pg/g										
PCB-85/116	PCB-85/116	SW8082A	pg/g										
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g										
PCB-88/91	PCB-88/91	SW8082A	pg/g										

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			Sample Location	NB02SED075		NB02SED075		NB02SED075		NB02SED075		NB02SED075	
			Sample ID	NB02SED075F-35		NB02SED075F-36		NB02SED075F-37		NB02SED075F-38		NB02SED075F-39	
			Parent Sample ID										
			Sample Date	12/7/2007		12/7/2007		12/7/2007		12/7/2007		12/7/2007	
			Start Depth	2.5		3.5		5.5		7.5		9.5	
			End Depth	3.5		5.5		7.5		9.5		10.6999998092651	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		N		N		N		N	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g										
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g										
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg										
93-76-5	2,4,5-T	SW8151	ug/kg										
94-75-7	2,4-D	SW8151	ug/kg										
94-82-6	2,4-DB	SW8151	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
Petroleum Hydrocarbons													
68334-30-8	TPH	8015B	mg/kg							1500	B,D,M		
TEPH	TEPH	8015B	mg/kg										
Organotin Compounds													
1002-53-5	Dibutyltin	8315M	ug/kg										
1461-25-2	Tetrabutyltin	8315M	ug/kg										
56573-85-4	Tributyltin	8315M	ug/kg										
78763-54-9	Monobutyltin	8315M	ug/kg										
Grain Size Distribution													
0.01	0.01	ASTM-D421	um							0			
0.011	0.011	ASTM-D421	um							0			
0.013	0.013	ASTM-D421	um							0			
0.015	0.015	ASTM-D421	um							0			
0.017	0.017	ASTM-D421	um							0			
0.02	0.02	ASTM-D421	um							0			
0.020	0.020 um	ASTM-D421	um										
0.022	0.022 um	ASTM-D421	um										
0.023	0.023	ASTM-D421	um							0			
0.025	0.025 um	ASTM-D421	um										
0.026	0.026	ASTM-D421	um							0			
0.028	0.028 um	ASTM-D421	um										
0.03	0.03	ASTM-D421	um							0			
0.032	0.032 um	ASTM-D421	um										
0.035	0.035	ASTM-D421	um							0			
0.036	0.036 um	ASTM-D421	um										
0.04	0.04	ASTM-D421	um							0			
0.040	0.040 um	ASTM-D421	um										
0.045	0.045 um	ASTM-D421	um										
0.046	0.046	ASTM-D421	um							0			
0.050	0.050 um	ASTM-D421	um										
0.052	0.052	ASTM-D421	um							0			
0.056	0.056 um	ASTM-D421	um										
0.06	0.06	ASTM-D421	um							0			
0.063	0.063 um	ASTM-D421	um										
0.069	0.069	ASTM-D421	um							0			
0.071	0.071 um	ASTM-D421	um										
0.079	0.079	ASTM-D421	um							0			

Table A-2-1
Sediment Data
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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.080	0.080 um	ASTM-D421	um										
0.089	0.089 um	ASTM-D421	um										
0.091	0.091	ASTM-D421	um							0			
0.100	0.100 um	ASTM-D421	um										
0.105	0.105	ASTM-D421	um							0			
0.112	0.112 um	ASTM-D421	um										
0.12	0.12	ASTM-D421	um							0			
0.126	0.126 um	ASTM-D421	um										
0.138	0.138	ASTM-D421	um							0			
0.142	0.142 um	ASTM-D421	um										
0.158	0.158	ASTM-D421	um							0			
0.159	0.159 um	ASTM-D421	um										
0.178	0.178 um	ASTM-D421	um										
0.182	0.182	ASTM-D421	um							0			
0.200	0.200 um	ASTM-D421	um										
0.209	0.209	ASTM-D421	um							0			
0.224	0.224 um	ASTM-D421	um										
0.24	0.24	ASTM-D421	um							0			
0.252	0.252 um	ASTM-D421	um										
0.275	0.275	ASTM-D421	um							0			
0.283	0.283 um	ASTM-D421	um										
0.316	0.316	ASTM-D421	um							0.00206			
0.317	0.317 um	ASTM-D421	um										
0.356	0.356 um	ASTM-D421	um										
0.363	0.363	ASTM-D421	um							0.0409			
0.399	0.399 um	ASTM-D421	um										
0.417	0.417	ASTM-D421	um							0.221962			
0.448	0.448 um	ASTM-D421	um										
0.479	0.479	ASTM-D421	um							0.360609			
0.502	0.502 um	ASTM-D421	um										
0.55	0.55	ASTM-D421	um							0.46324			
0.564	0.564 um	ASTM-D421	um										
0.631	0.631	ASTM-D421	um							0.540006			
0.632	0.632 um	ASTM-D421	um										
0.710	0.710 um	ASTM-D421	um										
0.724	0.724	ASTM-D421	um							0.585903			
0.796	0.796 um	ASTM-D421	um										

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Sediment Data
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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
0.832	0.832	ASTM-D421	um							0.612133			
0.893	0.893 um	ASTM-D421	um										
0.955	0.955	ASTM-D421	um							0.631887			
1.002	1.002 um	ASTM-D421	um										
1.096	1.096	ASTM-D421	um							0.662617			
1.125	1.125 um	ASTM-D421	um										
1.259	1.259	ASTM-D421	um							0.722433			
1.262	1.262 um	ASTM-D421	um										
1.416	1.416 um	ASTM-D421	um										
1.445	1.445	ASTM-D421	um							0.823872			
1.589	1.589 um	ASTM-D421	um										
1.66	1.66	ASTM-D421	um							0.974448			
1.783	1.783 um	ASTM-D421	um										
1.905	1.905	ASTM-D421	um							1.173052			
10	10	ASTM-D421	um							4.953129			
10.024	10.024 um	ASTM-D421	um										
100.237	100.237 um	ASTM-D421	um										
10000	10000	ASTM-D421	um							0			
1002.374	1002.374 um	ASTM-D421	um										
104.713	104.713	ASTM-D421	um							0.880822			
1096.478	1096.478	ASTM-D421	um							0			
11.247	11.247 um	ASTM-D421	um										
11.482	11.482	ASTM-D421	um							4.952533			
112.468	112.468 um	ASTM-D421	um										
1124.683	1124.683 um	ASTM-D421	um										
12.619	12.619 um	ASTM-D421	um										
120.226	120.226	ASTM-D421	um							0.686988			
1258.925	1258.925	ASTM-D421	um							0			
126.191	126.191 um	ASTM-D421	um										
1261.915	1261.915 um	ASTM-D421	um										
13.183	13.183	ASTM-D421	um							4.849446			
138.038	138.038	ASTM-D421	um							0.514837			
14.159	14.159 um	ASTM-D421	um										
141.589	141.589 um	ASTM-D421	um										
1415.892	1415.892 um	ASTM-D421	um										
1445.44	1445.44	ASTM-D421	um							0			
15.136	15.136	ASTM-D421	um							4.655105			

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Sediment Data
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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
15.887	15.887 um	ASTM-D421	um										
158.489	158.489	ASTM-D421	um							0.377734			
158.866	158.866 um	ASTM-D421	um										
1588.656	1588.656 um	ASTM-D421	um										
1659.587	1659.587	ASTM-D421	um							0			
17.378	17.378	ASTM-D421	um							4.382084			
17.825	17.825 um	ASTM-D421	um										
178.250	178.250 um	ASTM-D421	um										
1782.502	1782.502 um	ASTM-D421	um										
181.97	181.97	ASTM-D421	um							0.274977			
19.953	19.953	ASTM-D421	um							4.058453			
1905.461	1905.461	ASTM-D421	um							0			
2.000	2.000 um	ASTM-D421	um										
2.188	2.188	ASTM-D421	um							1.418588			
2.244	2.244 um	ASTM-D421	um										
2.512	2.512	ASTM-D421	um							1.709449			
2.518	2.518 um	ASTM-D421	um										
2.825	2.825 um	ASTM-D421	um										
2.884	2.884	ASTM-D421	um							2.043084			
20.000	20.000 um	ASTM-D421	um										
200.000	200.000 um	ASTM-D421	um										
2000.000	2000.000 um	ASTM-D421	um										
208.93	208.93	ASTM-D421	um							0.207025			
2187.762	2187.762	ASTM-D421	um							0			
22.440	22.440 um	ASTM-D421	um										
22.909	22.909	ASTM-D421	um							3.704268			
224.404	224.404 um	ASTM-D421	um										
239.883	239.883	ASTM-D421	um							0.165486			
25.179	25.179 um	ASTM-D421	um										
251.785	251.785 um	ASTM-D421	um										
2511.886	2511.886	ASTM-D421	um							0			
26.303	26.303	ASTM-D421	um							3.348476			
275.423	275.423	ASTM-D421	um							0.1444			
28.251	28.251 um	ASTM-D421	um										
282.508	282.508 um	ASTM-D421	um										
2884.032	2884.032	ASTM-D421	um							0			
3.170	3.170 um	ASTM-D421	um										

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
3.311	3.311	ASTM-D421	um							2.41515			
3.557	3.557 um	ASTM-D421	um										
3.802	3.802	ASTM-D421	um							2.813455			
3.991	3.991 um	ASTM-D421	um										
30.2	30.2	ASTM-D421	um							3.007015			
31.698	31.698 um	ASTM-D421	um										
316.228	316.228	ASTM-D421	um							0.135953			
316.979	316.979 um	ASTM-D421	um										
3311.311	3311.311	ASTM-D421	um							0			
34.674	34.674	ASTM-D421	um							2.695007			
35.566	35.566 um	ASTM-D421	um										
355.656	355.656 um	ASTM-D421	um										
363.078	363.078	ASTM-D421	um							0.133943			
3801.894	3801.894	ASTM-D421	um							0			
39.811	39.811	ASTM-D421	um							2.415597			
39.905	39.905 um	ASTM-D421	um										
399.052	399.052 um	ASTM-D421	um										
4.365	4.365	ASTM-D421	um							3.22886			
4.477	4.477 um	ASTM-D421	um										
416.869	416.869	ASTM-D421	um							0.133521			
4365.158	4365.158	ASTM-D421	um							0			
44.774	44.774 um	ASTM-D421	um										
447.744	447.744 um	ASTM-D421	um										
45.709	45.709	ASTM-D421	um							2.166298			
478.63	478.63	ASTM-D421	um							0.131072			
5.012	5.012	ASTM-D421	um							3.638479			
5.024	5.024 um	ASTM-D421	um										
5.637	5.637 um	ASTM-D421	um										
5.754	5.754	ASTM-D421	um							4.029242			
50.238	50.238 um	ASTM-D421	um										
5011.872	5011.872	ASTM-D421	um							0			
502.377	502.377 um	ASTM-D421	um										
52.481	52.481	ASTM-D421	um							1.939473			
549.541	549.541	ASTM-D421	um							0.124476			
56.368	56.368 um	ASTM-D421	um										
563.677	563.677 um	ASTM-D421	um										
5754.399	5754.399	ASTM-D421	um							0			

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Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
6.325	6.325 um	ASTM-D421	um										
6.607	6.607	ASTM-D421	um							4.372068			
60.256	60.256	ASTM-D421	um							1.724082			
63.246	63.246 um	ASTM-D421	um										
630.957	630.957	ASTM-D421	um							0.112773			
632.456	632.456 um	ASTM-D421	um										
6606.934	6606.934	ASTM-D421	um							0			
69.183	69.183	ASTM-D421	um							1.513788			
7.096	7.096 um	ASTM-D421	um										
7.586	7.586	ASTM-D421	um							4.65409			
7.962	7.962 um	ASTM-D421	um										
70.963	70.963 um	ASTM-D421	um										
709.627	709.627 um	ASTM-D421	um										
724.436	724.436	ASTM-D421	um							0.096957			
7585.776	7585.776	ASTM-D421	um							0			
79.433	79.433	ASTM-D421	um							1.301448			
79.621	79.621 um	ASTM-D421	um										
796.214	796.214 um	ASTM-D421	um										
8.71	8.71	ASTM-D421	um							4.850307			
8.934	8.934 um	ASTM-D421	um										
831.764	831.764	ASTM-D421	um							0.078782			
8709.636	8709.636	ASTM-D421	um							0			
89.337	89.337 um	ASTM-D421	um										
893.367	893.367 um	ASTM-D421	um										
91.201	91.201	ASTM-D421	um							1.090129			
954.993	954.993	ASTM-D421	um							0.056032			
d (0.1)	d (0.1)	ASTM-D421	um							2.681			
d (0.5)	d (0.5)	ASTM-D421	um							12.158			
d (0.9)	d (0.9)	ASTM-D421	um							59.738			
D[V,0.10]	D[v,0.10]	ASTM-D421	um										
D[V,0.50]	D[v,0.50]	ASTM-D421	um										
D[V,0.90]	D[v,0.90]	ASTM-D421	um										
Dioxins/Furans													
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	E1613B	pg/g							98.9			
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	E1613B	pg/g							15.5			
30402-15-4	Total PeCDF	E1613B	pg/g							375	P		
3268-87-9	Octachlorodibenzo-p-dioxin	E1613B	pg/g							3810			

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
34465-46-8	Total HxCDD	E1613B	pg/g							310			
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	E1613B	pg/g							429			
36088-22-9	Total PeCDD	E1613B	pg/g							74.1			
37871-00-4	Total HpCDD	E1613B	pg/g							1100			
38998-75-3	Total HcCDF	E1613B	pg/g							645	B		
39001-02-0	Octachlorodibenzofuran	E1613B	pg/g							662	B		
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g							5.88			
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	E1613B	pg/g							5.47			
41903-57-5	Total TCDD	E1613B	pg/g							177			
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/g							21.1			
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	E1613B	pg/g							16.6			
55684-94-1	Total HxCDF	E1613B	pg/g							396	B		
55722-27-5	Total TCDF	E1613B	pg/g							600			
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	E1613B	pg/g							18.4			
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/g							13			
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g							25			
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	E1613B	pg/g							24.6			
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	E1613B	pg/g							10.8			
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	E1613B	pg/g							438	B,EMPC		
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	E1613B	pg/g							87	B		
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	E1613B	pg/g							3.47	U		
Metals													
57-12-5	Cyanide	E200.7	mg/kg							0.3	B,N,JL		
7429-90-5	Aluminum	E200.7	mg/kg							17400	*,M		
7439-89-6	Iron	E200.7	mg/kg							38900	*,M		
7439-92-1	Lead	E200.7	mg/kg							184	*,M		
7439-95-4	Magnesium	E200.7	mg/kg							11200	*,M		
7439-96-5	Manganese	E200.7	mg/kg							621	N,*,JH		
7439-97-6	Mercury	E200.7	mg/kg							4.2	M		
7440-02-0	Nickel	E200.7	mg/kg							45.2	N,E,JL		
7440-09-7	Potassium	E200.7	mg/kg							4080	*,M		
7440-22-4	Silver	E200.7	mg/kg							4.1	N,*,JL		
7440-23-5	Sodium	E200.7	mg/kg							13700	*,M		
7440-28-0	Thallium	E200.7	mg/kg							0.25	B,N,JL		
7440-32-6	Titanium	E200.7	mg/kg							467	N,*,JH		
7440-36-0	Antimony	E200.7	mg/kg							7	N,UJL		
7440-38-2	Arsenic	E200.7	mg/kg							18.5	N,*,JH		

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
7440-39-3	Barium	E200.7	mg/kg							155	*,M		
7440-41-7	Beryllium	E200.7	mg/kg							0.88	B,E,J		
7440-43-9	Cadmium	E200.7	mg/kg							2.4	M		
7440-47-3	Chromium	E200.7	mg/kg							165	*,M		
7440-48-4	Cobalt	E200.7	mg/kg							13.6	M		
7440-50-8	Copper	E200.7	mg/kg							189	N,*,JH		
7440-62-2	Vanadium	E200.7	mg/kg							48	*,M		
7440-66-6	Zinc	E200.7	mg/kg							368	N,*,JH		
7440-70-2	Calcium	E200.7	mg/kg							9230	*,M		
7782-49-2	Selenium	E200.7	mg/kg							1.1	B,N,JL		
9/7/7440	Potassium	E200.7	mg/kg							4080	*,M		
Volatile Organic Compounds													
100-41-4	Ethylbenzene	E524	ug/kg										
100-42-5	Styrene	E524	ug/kg										
10061-01-5	cis-1,3-Dichloropropene	E524	ug/kg										
10061-02-6	trans-1,3-Dichloropropene	E524	ug/kg										
106-46-7	1,4-Dichlorobenzene	E524	ug/kg	29	U,M					19	U,M		
107-06-2	1,2-Dichloroethane	E524	ug/kg										
108-10-1	4-Methyl-2-pentanone	E524	ug/kg										
108-88-3	Toluene	E524	ug/kg										
108-90-7	Chlorobenzene	E524	ug/kg	29	U,M					19	U,M		
120-82-1	1,2,4-Trichlorobenzene	E524	ug/kg	29	U,M					19	U,M		
124-48-1	Dibromochloromethane	E524	ug/kg										
127-18-4	Tetrachloroethene	E524	ug/kg										
1330-20-7	Xylenes (TOTAL)	E524	ug/kg										
540-59-0	1,2-Dichloroethene (Total)	E524	ug/kg										
541-73-1	1,3-Dichlorobenzene	E524	ug/kg	29	U,M					19	U,M		
56-23-5	Carbon Tetrachloride	E524	ug/kg										
591-78-6	2-Hexanone	E524	ug/kg										
67-64-1	Acetone	E524	ug/kg										
67-66-3	Chloroform	E524	ug/kg										
71-43-2	Benzene	E524	ug/kg										
71-55-6	1,1,1-Trichloroethane	E524	ug/kg										
74-83-9	Bromomethane	E524	ug/kg										
74-87-3	Chloromethane	E524	ug/kg										
75-00-3	Chloroethane	E524	ug/kg										
75-01-4	Vinyl Chloride	E524	ug/kg										

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
75-09-2	Methylene Chloride	E524	ug/kg										
75-15-0	Carbon Disulfide	E524	ug/kg										
75-25-2	Bromoform	E524	ug/kg										
75-27-4	Bromodichloromethane	E524	ug/kg										
75-34-3	1,1-Dichloroethane	E524	ug/kg										
75-35-4	1,1-Dichloroethene	E524	ug/kg										
78-87-5	1,2-Dichloropropane	E524	ug/kg										
78-93-3	2-Butanone	E524	ug/kg										
79-00-5	1,1,2-Trichloroethane	E524	ug/kg										
79-01-6	Trichloroethene	E524	ug/kg										
79-34-5	1,1,2,2-Tetrachloroethane	E524	ug/kg										
87-61-6	1,2,3-Trichlorobenzene	E524	ug/kg	29	U,M					19	U,M		
95-50-1	1,2-Dichlorobenzene	E524	ug/kg	29	U,M					19	U,M		
Semivolatile Organic Compounds													
100-01-6	4-Nitroaniline	E625	ug/kg							940	U,M		
100-02-7	4-Nitrophenol	E625	ug/kg							940	U,M		
100-52-7	Benzaldehyde	E625	ug/kg							490	U,M		
101-55-3	4-Bromophenyl-phenylether	E625	ug/kg							490	U,M		
105-60-2	Caprolactam	E625	ug/kg							490	U,M		
105-67-9	2,4-Dimethylphenol	E625	ug/kg							490	U,M		
106-44-5	4-Methylphenol	E625	ug/kg							490	U,M		
106-46-7	1,4-Dichlorobenzene	E625	ug/kg										
106-47-8	4-Chloroaniline	E625	ug/kg							490	U,M		
108-60-1	2,2'-Oxybis(1-chloropropane)	E625	ug/kg							490	U,M		
108-95-2	Phenol	E625	ug/kg							490	U,M		
111-44-4	Bis(2-chloroethyl)ether	E625	ug/kg							490	U,M		
111-91-1	Bis(2-chloroethoxy)methane	E625	ug/kg							490	U,M		
117-81-7	Bis(2-ethylhexyl)phthalate	E625	ug/kg							4200	B,M		
117-84-0	Di-n-octylphthalate	E625	ug/kg								R		
118-74-1	Hexachlorobenzene	E625	ug/kg							490	U,M		
120-12-7	Anthracene	E625	ug/kg							19	G,M		
120-82-1	1,2,4-Trichlorobenzene	E625	ug/kg										
120-83-2	2,4-Dichlorophenol	E625	ug/kg							490	U,M		
121-14-2	2,4-Dinitrotoluene	E625	ug/kg							490	U,M		
129-00-0	Pyrene	E625	ug/kg							910	M		
131-11-3	Dimethylphthalate	E625	ug/kg							490	U,M		
132-64-9	Dibenzofuran	E625	ug/kg							490	U,M		

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
1912-24-9	Atrazine	E625	ug/kg							490	U,M		
191-24-2	Benzo(g,h,i)perylene	E625	ug/kg							210	G,J		
193-39-5	Indeno(1,2,3-cd)pyrene	E625	ug/kg							200	G,M		
205-99-2	Benzo(b)fluoranthene	E625	ug/kg							1000	M		
206-44-0	Fluoranthene	E625	ug/kg							1200	M		
207-08-9	Benzo(k)fluoranthene	E625	ug/kg							700	M		
208-96-8	Acenaphthylene	E625	ug/kg							49	M		
218-01-9	Chrysene	E625	ug/kg							650	M		
50-32-8	Benzo(a)pyrene	E625	ug/kg							700	M		
51-28-5	2,4-Dinitrophenol	E625	ug/kg							940	U,M		
534-52-1	4,6-Dinitro-2-methylphenol	E625	ug/kg							940	U,M		
53-70-3	Dibenzo(a,h)anthracene	E625	ug/kg							62	G,M		
541-73-1	1,3-Dichlorobenzene	E625	ug/kg										
56-55-3	Benzo(a)anthracene	E625	ug/kg							550	M		
58-90-2	2,3,4,6-Tetrachlorophenol	E625	ug/kg							490	U,M		
59-50-7	4-Chloro-3-methylphenol	E625	ug/kg							490	U,M		
606-20-2	2,6-Dinitrotoluene	E625	ug/kg							490	U,M		
621-64-7	N-Nitroso-di-n-propylamine	E625	ug/kg							490	U,M		
67-72-1	Hexachloroethane	E625	ug/kg							490	U,M		
7005-72-3	4-Chlorophenyl-phenylether	E625	ug/kg							490	U,M		
77-47-4	Hexachlorocyclopentadiene	E625	ug/kg								R		
78-59-1	Isophorone	E625	ug/kg							490	U,M		
83-32-9	Acenaphthene	E625	ug/kg							30	M		
84-66-2	Diethylphthalate	E625	ug/kg							490	U,M		
84-74-2	Di-n-butylphthalate	E625	ug/kg							490	U,M		
85-01-8	Phenanthrene	E625	ug/kg							250	G,M		
85-68-7	Butylbenzylphthalate	E625	ug/kg							110	G,M		
86-30-6	N-Nitrosodiphenylamine	E625	ug/kg							490	U,M		
86-73-7	Fluorene	E625	ug/kg							33	U,M		
86-74-8	Carbazole	E625	ug/kg							490	U,M		
87-68-3	Hexachlorobutadiene	E625	ug/kg							490	U,M		
87-86-5	Pentachlorophenol	E625	ug/kg							9.4	U,M		
88-06-2	2,4,6-Trichlorophenol	E625	ug/kg							490	U,M		
88-74-4	2-Nitroaniline	E625	ug/kg							940	U,M		
88-75-5	2-Nitrophenol	E625	ug/kg							490	U,M		
91-20-3	Naphthalene	E625	ug/kg							72	B,M		
91-57-6	2-Methylnaphthalene	E625	ug/kg							45	M		

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
91-58-7	2-Chloronaphthalene	E625	ug/kg							490	U,M		
91-94-1	3,3'-Dichlorobenzidine	E625	ug/kg							490	U,M		
92-52-4	1,1'-Biphenyl	E625	ug/kg							490	U,M		
95-48-7	2-Methylphenol	E625	ug/kg							490	U,M		
95-50-1	1,2-Dichlorobenzene	E625	ug/kg										
95-57-8	2-Chlorophenol	E625	ug/kg							490	U,M		
95-94-3	1,2,4,5-Tetrachlorobenzene	E625	ug/kg							490	U,M		
95-95-4	2,4,5-Trichlorophenol	E625	ug/kg							490	U,M		
98-86-2	Acetophenone	E625	ug/kg							490	U,M		
98-95-3	Nitrobenzene	E625	ug/kg							490	U,M		
99-09-2	3-Nitroaniline	E625	ug/kg							940	U,M		
Mositure and Specific Gravity													
MOIST	Moisture	MISC	%							181.9			
SG	Specific Gravity	MISC	sg							2.711			
Organic Carbon													
TOC	Total Organic Carbon	MISC	mg/kg							31500	M		
Radiochemistry													
10045-97-3	Cesium-137	RadChem	pci/g										
13966-02-4	Beryllium-7	RadChem	pci/g			3.61		0.86				1.02	
14255-04-0	Lead-210	RadChem	pci/g										
Pesticides													
1024-57-3	Heptachlor Epoxide	SW8080	ug/kg								R		
1031-07-8	Endosulfan Sulfate	SW8080	ug/kg							9.5	U		
309-00-2	Aldrin	SW8080	ug/kg							4.8	U		
319-84-6	alpha-BHC	SW8080	ug/kg							4.8	U		
319-85-7	beta-BHC	SW8080	ug/kg								R		
319-86-8	delta-BHC	SW8080	ug/kg							4.8	U		
33213-65-9	Endosulfan II	SW8080	ug/kg							2.3	G,P,J		
3424-82-6	2,4'-DDE	SW8080	ug/kg							13	P,J		
50-29-3	4,4'-DDT	SW8080	ug/kg							9.5	U		
5103-71-9	alpha-Chlordane	SW8080	ug/kg							1.7	G,M		
5103-74-2	gamma-Chlordane	SW8080	ug/kg							3.7	G,P,J		
53-19-0	2,4'-DDD	SW8080	ug/kg							9.5	U		
53494-70-5	Endrin Ketone	SW8080	ug/kg							9.5	U		
58-89-9	gamma-BHC (Lindane)	SW8080	ug/kg							4.8	U		
60-57-1	Dieldrin	SW8080	ug/kg							9.5	U		
72-20-8	Endrin	SW8080	ug/kg							9.5	U,M		

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
72-43-5	Methoxychlor	SW8080	ug/kg							48	U,M		
72-54-8	4,4'-DDD	SW8080	ug/kg							11	M		
72-55-9	4,4'-DDE	SW8080	ug/kg							35	M		
7421-93-4	Endrin aldehyde	SW8080	ug/kg							7.6	G,P,J		
76-44-8	Heptachlor	SW8080	ug/kg							4.8	U,M		
789-02-6	2,4'-DDT	SW8080	ug/kg							9.5	U,M		
8001-35-2	Toxaphene	SW8080	ug/kg							480	U,M		
959-98-8	Endosulfan I	SW8080	ug/kg							4.8	U,M		
PCB Aroclors													
11000-14-4	Aroclor-1268	SW8081	ug/kg							95	U,M		
11096-82-5	Aroclor 1260	SW8081	ug/kg							130	M		
11097-69-1	Aroclor 1254	SW8081	ug/kg							290	M		
11104-28-2	Aroclor 1221	SW8081	ug/kg							95	U,M		
11141-16-5	Aroclor 1232	SW8081	ug/kg							95	U,M		
12672-29-6	Aroclor 1248	SW8081	ug/kg							95	U,M		
12674-11-2	Aroclor 1016	SW8081	ug/kg							95	U,M		
37324-23-5	Aroclor 1262	SW8081	ug/kg							95	U,M		
53469-21-9	Aroclor 1242	SW8081	ug/kg							200	M		
PCB Congeners and Homologs													
15862-07-4	2,4,5-Trichlorobiphenyl (29)	SW8082A	pg/g							103	D		
15968-05-5	2,2',6,6'-Tetrachlorobiphenyl (54)	SW8082A	pg/g							101	D		
16606-02-3	2,4',5-Trichlorobiphenyl (31)	SW8082A	pg/g							30400	D		
2050-67-1	3,3'-Dichlorobiphenyl (11)	SW8082A	pg/g							9470	D		
2050-68-2	4,4'-Dichlorobiphenyl (15)	SW8082A	pg/g							22900	D		
2051-24-3	Decachlorobiphenyl	SW8082A	pg/g							3270	D		
2051-60-7	2-Chlorobiphenyl (1)	SW8082A	pg/g							1550	D		
2051-61-8	3-Chlorobiphenyl (2)	SW8082A	pg/g							599	D		
2051-62-9	4-Chlorobiphenyl (3)	SW8082A	pg/g							1280	D		
2136-99-4	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	SW8082A	pg/g							1480	D		
2437-79-8	2,2'4,4'-Tetrachlorobiphenyl (47)	SW8082A	pg/g							10500	D		
25569-80-6	2,3'-Dichlorobiphenyl (6)	SW8082A	pg/g							2910	D		
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (77)	SW8082A	pg/g							5690	D		
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (105)	SW8082A	pg/g							6850	D		
32690-93-0	2,4,4',5-Tetrachlorobiphenyl (74)	SW8082A	pg/g							13200	D		
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (169)	SW8082A	pg/g							19.3	U,D		
33091-17-7	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	SW8082A	pg/g							162	D		
33284-52-5	3,3',5,5'-Tetrachlorobiphenyl (80)	SW8082A	pg/g							42.6	U,D		

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			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
33284-54-7	2,3,5,6-Tetrachlorobiphenyl (65)	SW8082A	pg/g							42.6	U,D		
33979-03-2	2,2',4,4',6,6'-Hexachlorobiphenyl (155)	SW8082A	pg/g							194	D		
34883-41-5	3,5-Dichlorobiphenyl (14)	SW8082A	pg/g							68.9	U,D		
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl (153)	SW8082A	pg/g							24500	D		
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	SW8082A	pg/g							14300	D		
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	SW8082A	pg/g							5330	D		
35693-92-6	2,4,6-Trichlorobiphenyl (30)	SW8082A	pg/g							42.6	U,D		
35694-06-5	2,2',3,4,4',5-Hexachlorobiphenyl (137)	SW8082A	pg/g							904	D		
35694-08-7	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	SW8082A	pg/g							3560	D		
37680-65-2	2,2',5-Trichlorobiphenyl (18)	SW8082A	pg/g							14100	D		
37680-66-3	2,2',4-Trichlorobiphenyl (17)	SW8082A	pg/g							8470	D		
37680-68-5	2',3,5-Trichlorobiphenyl (34)	SW8082A	pg/g							281	D		
37680-69-6	3,3',4-Trichlorobiphenyl (35)	SW8082A	pg/g							1670	D		
38380-01-7	2,2',4,4',5-Pentachlorobiphenyl (99)	SW8082A	pg/g							14000	D		
38380-03-9	2,3,3',4',6-Pentachlorobiphenyl (110)	SW8082A	pg/g							28200	D		
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (156)	SW8082A	pg/g							1930	D		
38411-22-2	2,2',3,3',6,6'-Hexachlorobiphenyl (136)	SW8082A	pg/g							3330	D		
38411-25-5	2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	SW8082A	pg/g							6110	D		
38444-73-4	2,2',6-Trichlorobiphenyl (19)	SW8082A	pg/g							1550	D		
38444-81-4	2,3',5-Trichlorobiphenyl (26)	SW8082A	pg/g							7860	D		
38444-85-8	2,3,4'-Trichlorobiphenyl (22)	SW8082A	pg/g							8800	D		
38444-87-0	3,3',5-Trichlorobiphenyl (36)	SW8082A	pg/g							66	D		
38444-88-1	3,4',5-Trichlorobiphenyl (39)	SW8082A	pg/g							161	D		
38444-90-5	3,4,4'-Trichlorobiphenyl (37)	SW8082A	pg/g							13700	D		
38444-93-8	2,2',3,3'-Tetrachorobiphenyl (40)	SW8082A	pg/g							5140	D		
39485-83-1	2,2',4,4',6-Pentachlorobiphenyl (100)	SW8082A	pg/g							367	D		
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	SW8082A	pg/g							210	D		
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl (127)	SW8082A	pg/g							42.6	U,D		
39635-35-3	2,3,3',4,5,5'-Hexachlorobiphenyl (159)	SW8082A	pg/g							42.6	U,D		
40186-70-7	2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	SW8082A	pg/g							373	D		
40186-71-8	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	SW8082A	pg/g							688	D		
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	SW8082A	pg/g							3500	D		
41411-63-6	2,3,4,4',5,6-Hexachlorobiphenyl (166)	SW8082A	pg/g							73.4	D		
41411-64-7	2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	SW8082A	pg/g							1150	D		
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl (44)	SW8082A	pg/g							26700	D		
41464-41-9	2,2',5,6'-Tetrachlorobiphenyl (53)	SW8082A	pg/g							3460	D		
41464-47-5	2,2',3,6'-Tetrachlorobiphenyl (46)	SW8082A	pg/g							1290	D		

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
41464-48-6	3,3',4,5'-Tetrachlorobiphenyl (79)	SW8082A	pg/g							486	D		
41464-49-7	2,3,3',5'-Tetrachlorobiphenyl (58)	SW8082A	pg/g							172	D		
41464-51-1	2,2',3',4,5-Pentachlorobiphenyl (97)	SW8082A	pg/g							7710	D		
52663-62-4	2,2',3,3',4-Pentachlorobiphenyl (82)	SW8082A	pg/g							2890	D		
52663-63-5	2,2',3,5,5',6-Hexachlorobiphenyl (151)	SW8082A	pg/g							6490	D		
52663-64-6	2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	SW8082A	pg/g							3670	D		
52663-65-7	2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	SW8082A	pg/g							1050	D		
52663-66-8	2,2',3,3',4,5'-Hexachlorobiphenyl (130)	SW8082A	pg/g							1640	D		
52663-67-9	2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	SW8082A	pg/g							1830	D		
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	SW8082A	pg/g							4400	D		
52663-70-4	2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	SW8082A	pg/g							4170	D		
52663-71-5	2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	SW8082A	pg/g							1630	D		
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (167)	SW8082A	pg/g							867	D		
52663-73-7	2,2',3,3',4,5,6,6'-Octachlorobiphenyl (200)	SW8082A	pg/g							500	D		
52663-74-8	2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	SW8082A	pg/g							980	D		
52663-75-9	2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	SW8082A	pg/g							5650	D		
52663-77-1	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	SW8082A	pg/g							1290	D		
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	SW8082A	pg/g							1480	D		
52663-79-3	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	SW8082A	pg/g							363	D		
52712-04-6	2,2',3,4,5,5'-Hexachlorobiphenyl (141)	SW8082A	pg/g							3360	D		
52712-05-7	2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	SW8082A	pg/g							618	D		
52744-13-5	2,2',3,3',5,6'-Hexachlorobiphenyl (135)	SW8082A	pg/g							3670	D		
53555-66-1	3,4,5-Trichlorobiphenyl (38)	SW8082A	pg/g							298	D		
54230-22-7	2,3,4,6-Tetrachlorobiphenyl (62)	SW8082A	pg/g							42.6	U,D		
55215-18-4	2,2',3,3',4,5-Hexachlorobiphenyl (129)	SW8082A	pg/g							762	D		
55312-69-1	2,2',3,4,5-Pentachlorobiphenyl (86)	SW8082A	pg/g							109	D		
55712-37-3	2,3',4-Trichlorobiphenyl (25)	SW8082A	pg/g							5990	D		
55720-44-0	2,3,5-Trichlorobiphenyl (23)	SW8082A	pg/g							21.3	D,G		
56558-16-8	2,2',4,6,6'-Pentachlorobiphenyl (104)	SW8082A	pg/g							27.6	D,G		
56558-17-9	2,3',4,4',6-Pentachlorobiphenyl (119)	SW8082A	pg/g							964	D		
56558-18-0	2,3',4,5',6-Pentachlorobiphenyl (121)	SW8082A	pg/g							42.6	U,D		
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (126)	SW8082A	pg/g							136	D		
59291-64-4	2,2',3,4,4',6'-Hexachlorobiphenyl (140)	SW8082A	pg/g							246	D		
59291-65-5	2,3',4,4',5',6-Hexachlorobiphenyl (168)	SW8082A	pg/g							52.3	D		
60145-20-2	2,2',3,3',5-Pentachlorobiphenyl (83)	SW8082A	pg/g							17.5	D,G		
60145-21-3	2,2',4,5',6-Pentachlorobiphenyl (103)	SW8082A	pg/g							448	D		
60145-22-4	2,2',4,4',5',6-Hexachlorobiphenyl (154)	SW8082A	pg/g							921	D		

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
61798-70-7	2,2',3,3',4,6-Hexachlorobiphenyl (131)	SW8082A	pg/g							42.6	U,D		
62796-65-0	2,2',4,6-Tetrachlorobiphenyl (50)	SW8082A	pg/g							91.5	D		
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (123)	SW8082A	pg/g							374	D		
68194-04-7	2,2',4,6'-Tetrachlorobiphenyl (51)	SW8082A	pg/g							1630	D		
68194-08-1	2,2',3,4',6,6'-Hexachlorobiphenyl (150)	SW8082A	pg/g							124	D		
68194-09-2	2,2',3,5,6,6'-Hexachlorobiphenyl (152)	SW8082A	pg/g							39.1	D,G		
68194-10-5	2,3,3',5',6-Pentachlorobiphenyl (113)	SW8082A	pg/g							120	D		
68194-12-7	2,3',4,5,5'-Pentachlorobiphenyl (120)	SW8082A	pg/g							133	D		
68194-13-8	2,2',3,4',5,6-Hexachlorobiphenyl (147)	SW8082A	pg/g							879	D		
68194-14-9	2,2',3,4,5',6-Hexachlorobiphenyl (144)	SW8082A	pg/g							1130	D		
68194-16-1	2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	SW8082A	pg/g							128	D		
68194-17-2	2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	SW8082A	pg/g							249	D		
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (157)	SW8082A	pg/g							460	D		
69782-91-8	2,3,3',4',5,5',6-Heptachlorobiphenyl (193)	SW8082A	pg/g							769	D		
7012-37-5	2,4,4'-Trichlorobiphenyl (28)	SW8082A	pg/g							41900	D		
70362-45-7	2,2',3,6-Tetrachlorobiphenyl (45)	SW8082A	pg/g							3170	D		
70362-49-1	3,3',4,5-Tetrachlorobiphenyl (78)	SW8082A	pg/g							42.6	U,D		
70362-50-4	3,4,4',5-Tetrachlorobiphenyl (81)	SW8082A	pg/g							108	D,J		
70424-67-8	2,3,3',5-Tetrachlorobiphenyl (57)	SW8082A	pg/g							221	D		
70424-70-3	2',3,4,5,5'-Pentachlorobiphenyl (124)	SW8082A	pg/g							683	D		
73575-52-7	2,3',4,5'-Tetrachlorobiphenyl (68)	SW8082A	pg/g							490	D		
73575-53-8	2,3',4,5-Tetrachlorobiphenyl (67)	SW8082A	pg/g							974	D		
73575-54-9	2,2',3,6,6'-Pentachlorobiphenyl (96)	SW8082A	pg/g							316	D		
73575-55-0	2,2',3,5,6'-Pentachlorobiphenyl (94)	SW8082A	pg/g							235	D		
73575-56-1	2,2',3,5,6-Pentachlorobiphenyl (93)	SW8082A	pg/g							42.6	U,D		
73575-57-2	2,2',3,4,6'-Pentachlorobiphenyl (89)	SW8082A	pg/g							368	D		
74338-23-1	2,3',5',6-Tetrachlorobiphenyl (73)	SW8082A	pg/g							42.6	U,D		
74338-24-2	2,3,3',4-Tetrachlorobiphenyl (55)	SW8082A	pg/g							379	D		
74472-34-7	2,3,4',5-Tetrachlorobiphenyl (63)	SW8082A	pg/g							1150	D		
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (114)	SW8082A	pg/g							403	D		
74472-40-5	2,2',3,4,6,6'-Hexachlorobiphenyl (145)	SW8082A	pg/g							42.6	U,D		
74472-41-6	2,2',3,4',5,6'-Hexachlorobiphenyl (148)	SW8082A	pg/g							76.5	D		
74472-47-2	2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	SW8082A	pg/g							37.8	D,G		
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	SW8082A	pg/g							28.8	D,G		
74472-49-4	2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	SW8082A	pg/g							42.6	U,D		
74472-50-7	2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	SW8082A	pg/g							250	D		
74472-51-8	2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	SW8082A	pg/g							42.6	U,D		

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
74472-52-9	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	SW8082A	pg/g							42.6	U,D		
74472-53-0	2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	SW8082A	pg/g							157	D		
74487-85-7	2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	SW8082A	pg/g							60.4	D		
76842-07-4	2',3,3',4,5-Pentachlorobiphenyl (122)	SW8082A	pg/g							255	D		
PCB-106/118	PCB-106/118	SW8082A	pg/g							21000	D		
PCB-107/109	PCB-107/109	SW8082A	pg/g							1880	D		
PCB-108/112	PCB-108/112	SW8082A	pg/g							1290	D		
PCB-111/115	PCB-111/115	SW8082A	pg/g							311	D		
PCB-12/13	PCB-12/13	SW8082A	pg/g							4410	D		
PCB-128/162	PCB-128/162	SW8082A	pg/g							3400	D		
PCB-132/161	PCB-132/161	SW8082A	pg/g							6340	D		
PCB-133/142	PCB-133/142	SW8082A	pg/g							738	D		
PCB-134/143	PCB-134/143	SW8082A	pg/g							1240	D		
PCB-138/163/164	PCB-138/163/164	SW8082A	pg/g							22800	D		
PCB-139/149	PCB-139/149	SW8082A	pg/g							23200	D		
PCB-146/165	PCB-146/165	SW8082A	pg/g							4030	D		
PCB-158/160	PCB-158/160	SW8082A	pg/g							2330	D		
PCB-16/32	PCB-16/32	SW8082A	pg/g							11000	D		
PCB-182/187	PCB-182/187	SW8082A	pg/g							11400	D		
PCB-196/203	PCB-196/203	SW8082A	pg/g							5530	D		
PCB-20/21/33	PCB-20/21/33	SW8082A	pg/g							9180	D		
PCB-24/27	PCB-24/27	SW8082A	pg/g							2070	D		
PCB-4/10	PCB-4/10	SW8082A	pg/g							4040	D		
PCB-41/64/71/72	PCB-41/64/71/72	SW8082A	pg/g							26000	D		
PCB-42/59	PCB-42/59	SW8082A	pg/g							11100	D		
PCB-43/49	PCB-43/49	SW8082A	pg/g							24000	D		
PCB-48/75	PCB-48/75	SW8082A	pg/g							5370	D		
PCB-5/8	PCB-5/8	SW8082A	pg/g							9480	D		
PCB-52/69	PCB-52/69	SW8082A	pg/g							25400	D		
PCB-56/60	PCB-56/60	SW8082A	pg/g							15700	D		
PCB-61/70	PCB-61/70	SW8082A	pg/g							27500	D		
PCB-66/76	PCB-66/76	SW8082A	pg/g							30100	D		
PCB-7/9	PCB-7/9	SW8082A	pg/g							631	D		
PCB-84/92	PCB-84/92	SW8082A	pg/g							10500	D		
PCB-85/116	PCB-85/116	SW8082A	pg/g							4160	D		
PCB-87/117/125	PCB 87/117/125	SW8082A	pg/g							6840	D		
PCB-88/91	PCB-88/91	SW8082A	pg/g							4740	D		

Table A-2-1
Sediment Data
Port Newark Channel
Tierra Solutions 2008

			Sample Location	NB02SED075		NB02SED075		NB02SED107		NB02SED107		NB02SED107	
			Sample ID	NB02SED075H-01		NB02SEDDUP-61		NB02SED107A-31		NB02SED107B-01		NB02SEDDUP-53	
			Parent Sample ID			NB02SED075A-31						NB02SED107A-31	
			Sample Date	12/7/2007		12/4/2007		11/5/2007		11/6/2007		11/5/2007	
			Start Depth	0		0		0		0		0	
			End Depth	0.5		0.25		0.25		0.5		0.25	
			Depth Unit	ft		ft		ft		ft		ft	
			Type	N		FD		N		N		FD	
CAS No.	**Chemical**	**Method**	**Unit**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**	**Conc**	**Qual**
PCB-90/101	PCB-90/101	SW8082A	pg/g							24900	D		
PCB-95/98/102	PCB-95/98/102	SW8082A	pg/g							18700	D		
Herbicides													
93-72-1	2,4,5-TP (Silvex)	SW8151	ug/kg							98	D,P,JH		
93-76-5	2,4,5-T	SW8151	ug/kg							29	U,M		
94-75-7	2,4-D	SW8151	ug/kg							220	P,JH		
94-82-6	2,4-DB	SW8151	ug/kg								R		

Appendix B

Appendix B
Historical Figures and Tables

Figure B-1

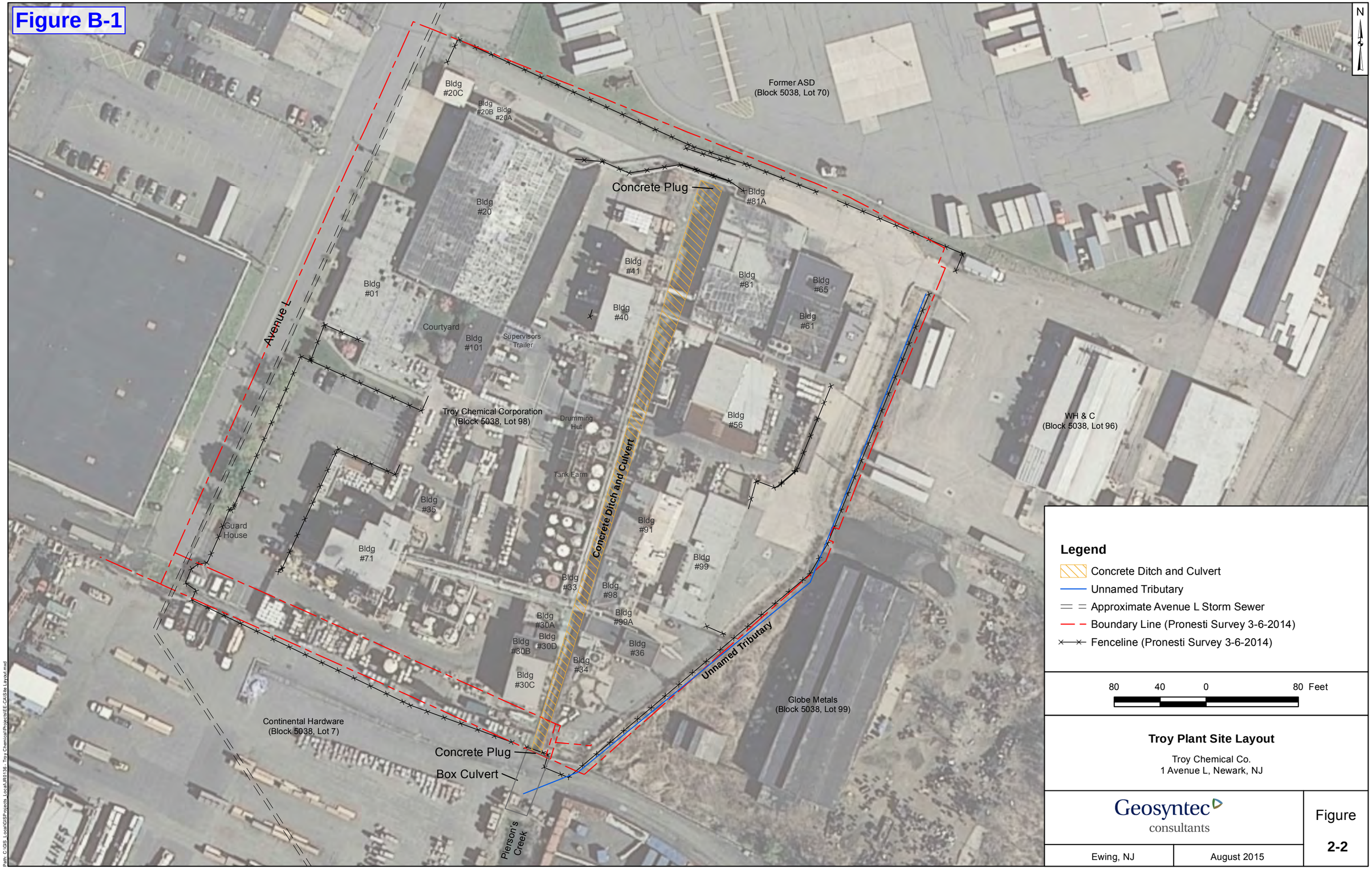
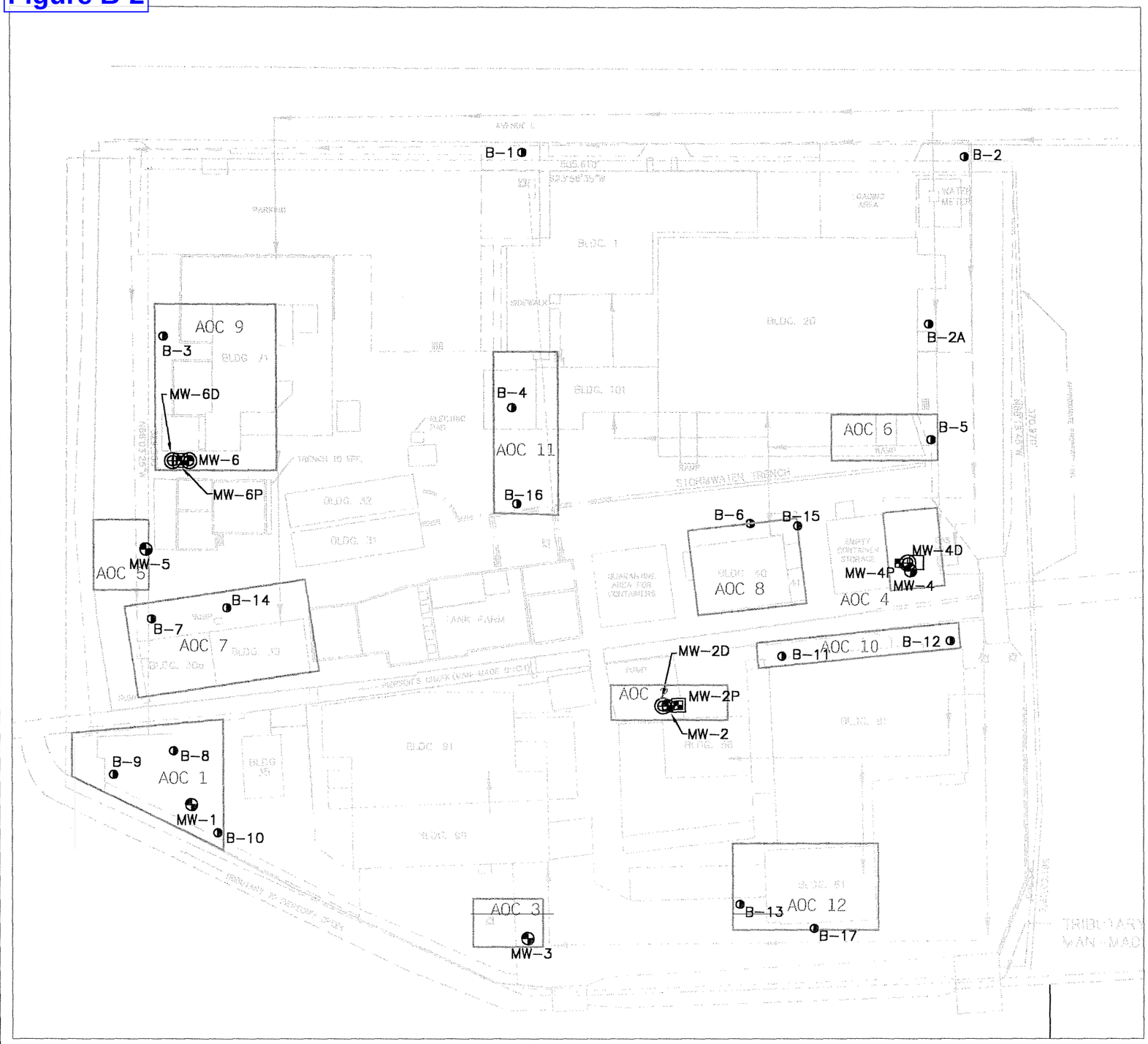

N
Former ASD
(Block 5038, Lot 70)
Bldg #20C
Bldg #20B
Bldg #20A
Concrete Plug
Bldg #81A
Bldg #20
Bldg #41
Bldg #81
Bldg #65
Bldg #01
Bldg #40
Bldg #61
Avenue L
Courtyard
Bldg #101
Supervisors Trailer
Troy Chemical Corporation
(Block 5038, Lot 98)
Drumming Hut
Bldg #56
WH & C
(Block 5038, Lot 96)
Tank Farm
Concrete Ditch and Culvert
Bldg #35
Bldg #91
Guard House
Bldg #71
Bldg #99
Bldg #33
Bldg #98
Bldg #30A
Bldg #99A
Bldg #30B
Bldg #30D
Bldg #36
Bldg #34
Bldg #30C
Unnamed Tributary
Globe Metals
(Block 5038, Lot 99)
Continental Hardware
(Block 5038, Lot 7)
Concrete Plug
Box Culvert
Pierson's Creek
Legend
Concrete Ditch and Culvert
Unnamed Tributary
Approximate Avenue L Storm Sewer
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
80 40 0 80 Feet
Troy Plant Site Layout
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
2-2
Ewing, NJ
August 2015
Path: C:\GIS_Local\GISProjects_Local\JR0136 - Troy Chemical\Projects\EE-CA\Site Layout.mxd

Figure B-2



LEGEND:

MW-1	MW-1 MONITORING WELL LOCATION AND ID
MW-6	SHALLOW MONITORING WELL LOCATION AND ID
MW-D	DEEP MONITORING WELL LOCATION AND ID
MW-2P	PEAT MONITORING WELL LOCATION AND ID
B-1	SOIL BORING LOCATION AND ID
	SANITARY SEWER MANHOLE
	TRENCH DRAIN
	INTERMITTENT DRAINAGE FEATURE
	WATER LINE
	GAS LINE
	PROCESS SEWER
AOC 1	AREA OF CONCERN

NOTES:

1. MW LOCATIONS WERE SURVEYED 11/26/96.

SOURCE: EMCON, TROY CHEMICAL CORPORATION, INC., NEWARK, NJ, "SITE INVESTIGATION PLAN", FIGURE: 2, DATE: SEPTEMBER 1998.

0 60 120

SCALE: 1" = 60'

TITLE: FIGURE 2
AREAS OF CONCERN WITH MONITORING WELL LOCATIONS

LOCATION: TROY CHEMICAL CORPORATION, INC. NEWARK, NEW JERSEY

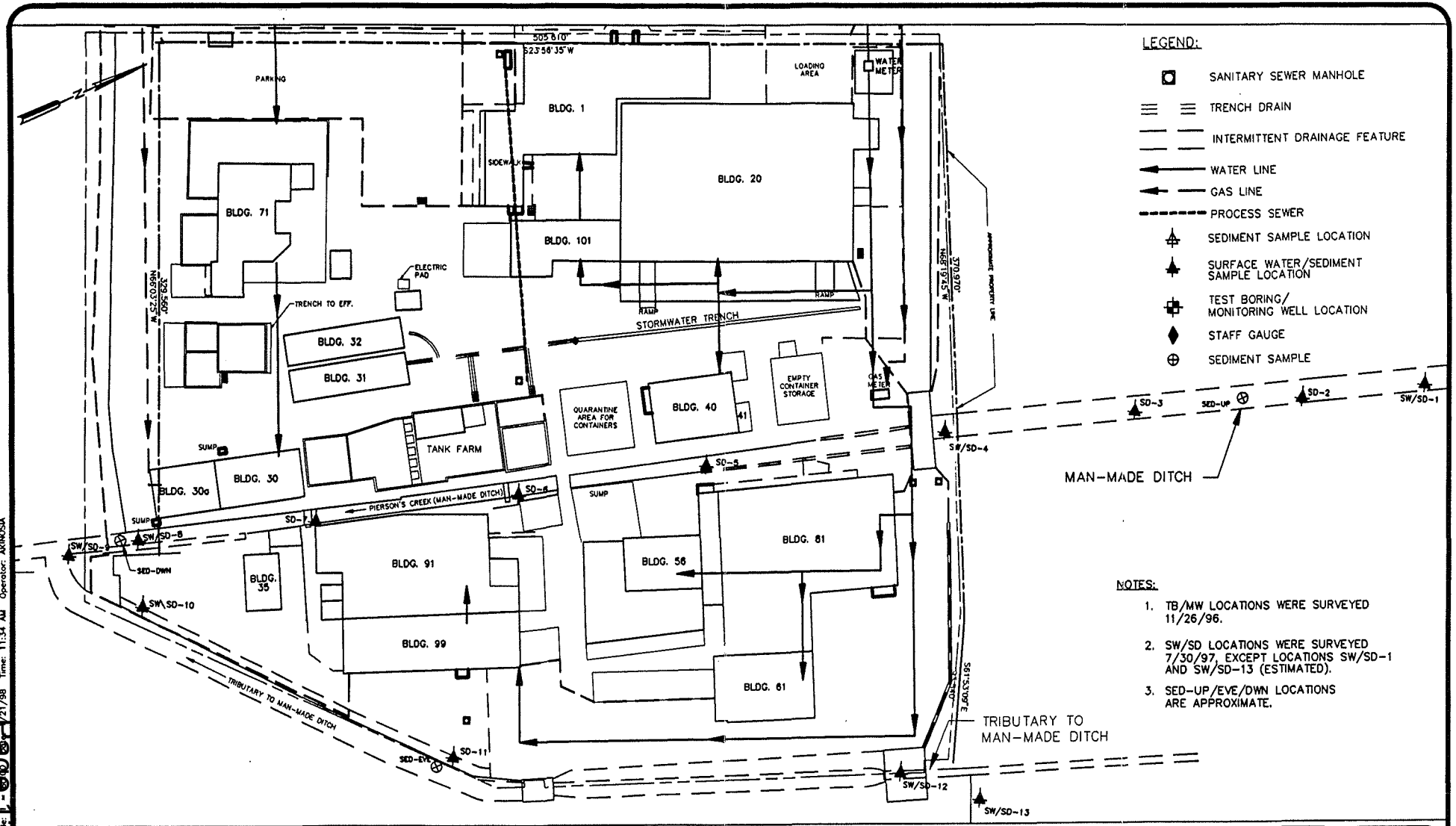
DATE: 7/6/00

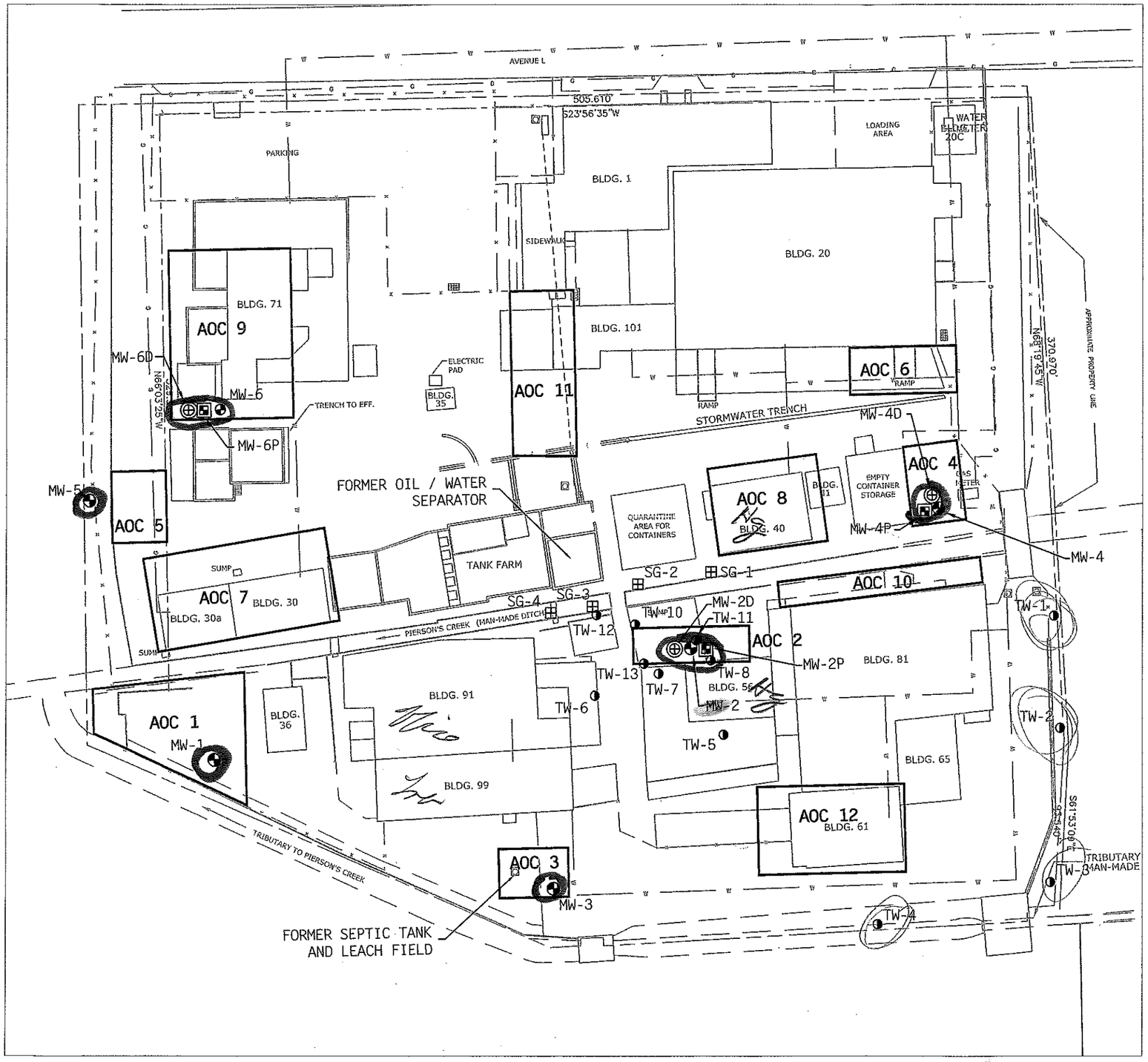
PROJECT NO.: 95127

FILENAME: 95127PSAM_REV1

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
1259 Route 46 East, Building 1, First Floor, Parsippany, NJ 07054

Figure B-3


LEGEND:
SANITARY SEWER MANHOLE
TRENCH DRAIN
INTERMITTENT DRAINAGE FEATURE
WATER LINE
GAS LINE
PROCESS SEWER
SEDIMENT SAMPLE LOCATION
SURFACE WATER/SEDIMENT SAMPLE LOCATION
TEST BORING/ MONITORING WELL LOCATION
STAFF GAUGE
SEDIMENT SAMPLE
NOTES:
1. TB/MW LOCATIONS WERE SURVEYED 11/26/96.
2. SW/SD LOCATIONS WERE SURVEYED 7/30/97, EXCEPT LOCATIONS SW/SD-1 AND SW/SD-13 (ESTIMATED).
3. SED-UP/EVE/DWN LOCATIONS ARE APPROXIMATE.
BLDG. 1
BLDG. 20
BLDG. 101
BLDG. 71
BLDG. 32
BLDG. 31
BLDG. 30
BLDG. 30a
BLDG. 35
BLDG. 91
BLDG. 99
BLDG. 56
BLDG. 61
BLDG. 40
TANK FARM
QUARANTINE AREA FOR CONTAINERS
EMPTY CONTAINER STORAGE
LOADING AREA
WATER METER
GAS METER
ELECTRIC PAD
PARKING
SIDEWALK
RAMP
SUMP
TRENCH TO EFF.
STORMWATER TRENCH
PIERSON'S CREEK (MAN-MADE DITCH)
TRIBUTARY TO MAN-MADE DITCH
MAN-MADE DITCH
TRIBUTARY TO MAN-MADE DITCH
APPROXIMATE PROPERTY LINE
SD-3
SED-UP
SD-2
SW/SD-1
SW/SD-4
SD-5
SD-6
SD-7
SW/SD-8
SW/SD-9
SED-DWN
SW/SD-10
SD-11
SED-EVE
SW/SD-12
SW/SD-13
0 60 120
SCALE IN FEET
EMCON
DATE 11/97
DWN AK
APP KG
REV
TROY CHEMICAL CORPORATION, INC.
NEWARK, NEW JERSEY
SITE INVESTIGATION PLAN
FIGURE 7
PROJECT NO. 83611-001.000



LEGEND:

- TW-1 — TEMPORARY WELL LOCATION AND ID (APPROXIMATE)
- MW-1 — SHALLOW MONITORING WELL LOCATION AND ID (APPROXIMATE)
- MW-D — DEEP MONITORING WELL LOCATION AND ID (APPROXIMATE)
- MW-2P — PEAT MONITORING WELL LOCATION AND ID (APPROXIMATE)
- SG-1 — STAFF GAUGE LOCATION AND ID (APPROXIMATE)
- SANITARY SEWER MANHOLE
- TRENCH DRAIN
- INTERMITTENT DRAINAGE FEATURE
- WATER LINE
- GAS LINE
- FENCE LINE
- PROCESS SEWER
- AOC 1 — AREA OF CONCERN

SOURCE: EMCON, TROY CHEMICAL CORPORATION, INC., NEWARK, NJ, "SITE INVESTIGATION PLAN", FIGURE: 2, DATE: SEPTEMBER 1998.

0 60 120

SCALE: 1" = 60'

TITLE:

FIGURE 2

GENERAL SITE MAP SHOWING AREAS OF CONCERN AND MONITORING WELL LOCATIONS

LOCATION: TROY CHEMICAL CORPORATION, INC. NEWARK, NEW JERSEY

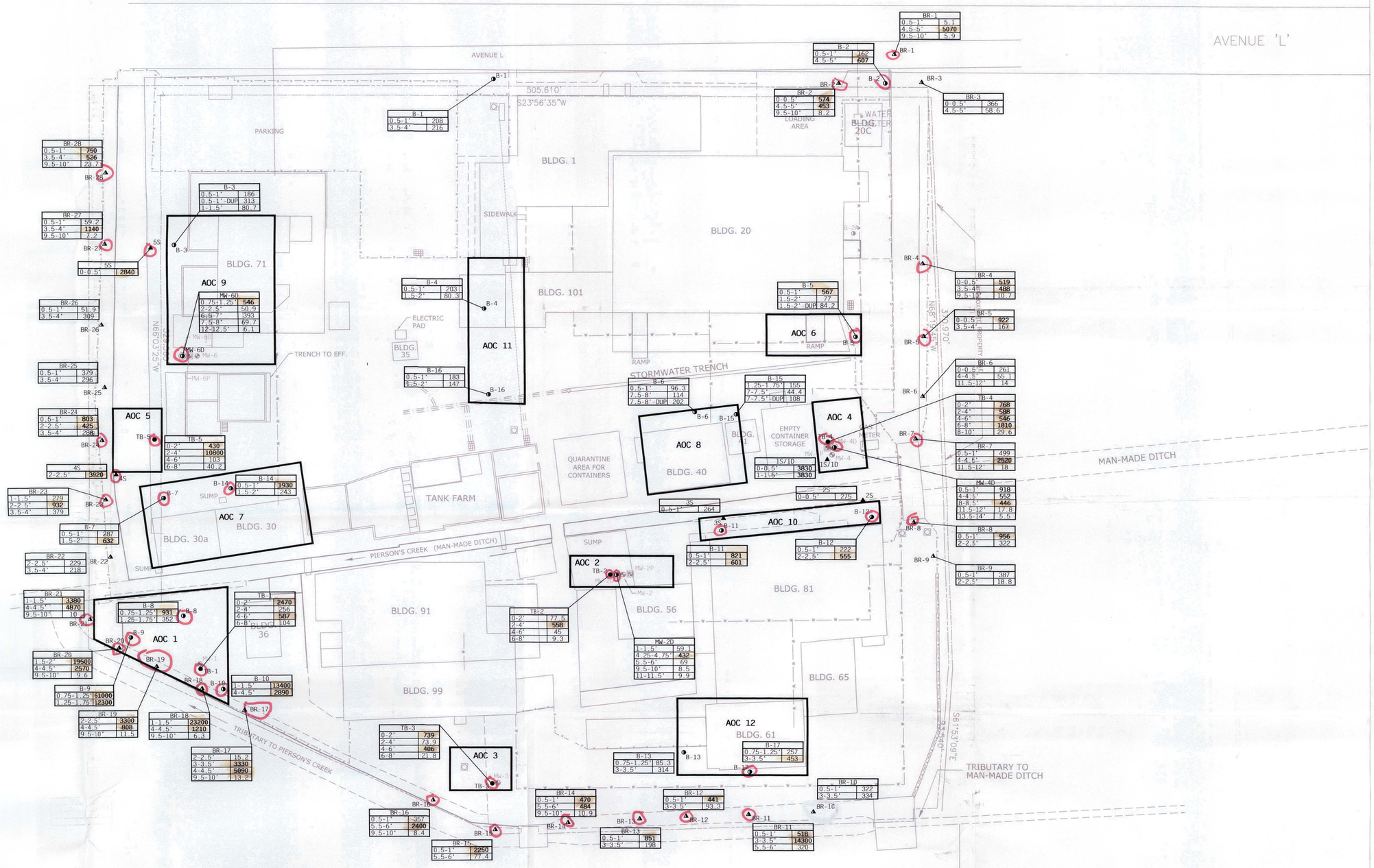
DATE: 09/17/03

FILENAME: 95127_GWDATA_REV

LAYOUT: SITE MAP

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.

218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
1259 Route 46 East, Building 1, First Floor, Parsippany, NJ 07054



LEGEND

- SHALLOW MONITORING WELL LOCATION AND ID (MW-1)
- DEEP MONITORING WELL LOCATION AND ID (MW-4D)
- PEAT MONITORING WELL LOCATION AND ID (MW-2P)
- SOIL SAMPLE LOCATION AND ID (ELM SEPTEMBER - 2003) (BR-23)
- SOIL BORING LOCATION AND ID (ELM APRIL - 2000) (B-1)
- SOIL SAMPLE LOCATION AND ID (EMCON OCTOBER - 1996) (TB-1)
- SOIL SAMPLE LOCATION AND ID (WEHRAN NOVEMBER - 1988) (1S)
- SANITARY SEWER MANHOLE
- TRENCH DRAIN
- PROPERTY LINE
- INTERMITTENT DRAINAGE FEATURE
- WATER LINE
- GAS LINE
- FENCE LINE
- PROCESS SEWER
- AOC 1 — AREA OF CONCERN
- 2S / 0-0.5 ND — SAMPLE ID; SAMPLING DEPTH IN FEET/LEAD RESULT IN mg/kg
- ND — NOT DETECTED

NOTES:

1) **BOLD RESULTS EXCEED NJDEP LEAD RESIDENTIAL SOIL CLEANUP CRITERION (400 mg/kg).**
2) ALL RESULTS ARE IN mg/kg.
3) ALL SAMPLING DEPTHS ARE IN FEET.
4) GREY SAMPLES/BORINGS WERE NOT TESTED FOR LEAD.

LEAD:
R- 400
NR- 600
GW- —

SOURCE: EMCON, TROY CHEMICAL CORPORATION, INC., NEWARK, NJ, "SITE INVESTIGATION PLAN", FIGURE: 2, DATE: SEPTEMBER 1998.

0 30 60
SCALE: 1" = 30'

TITLE:
FIGURE 6
DISTRIBUTION OF LEAD IN SOIL

LOCATION: TROY CHEMICAL CORPORATION, INC. NEWARK, NEW JERSEY

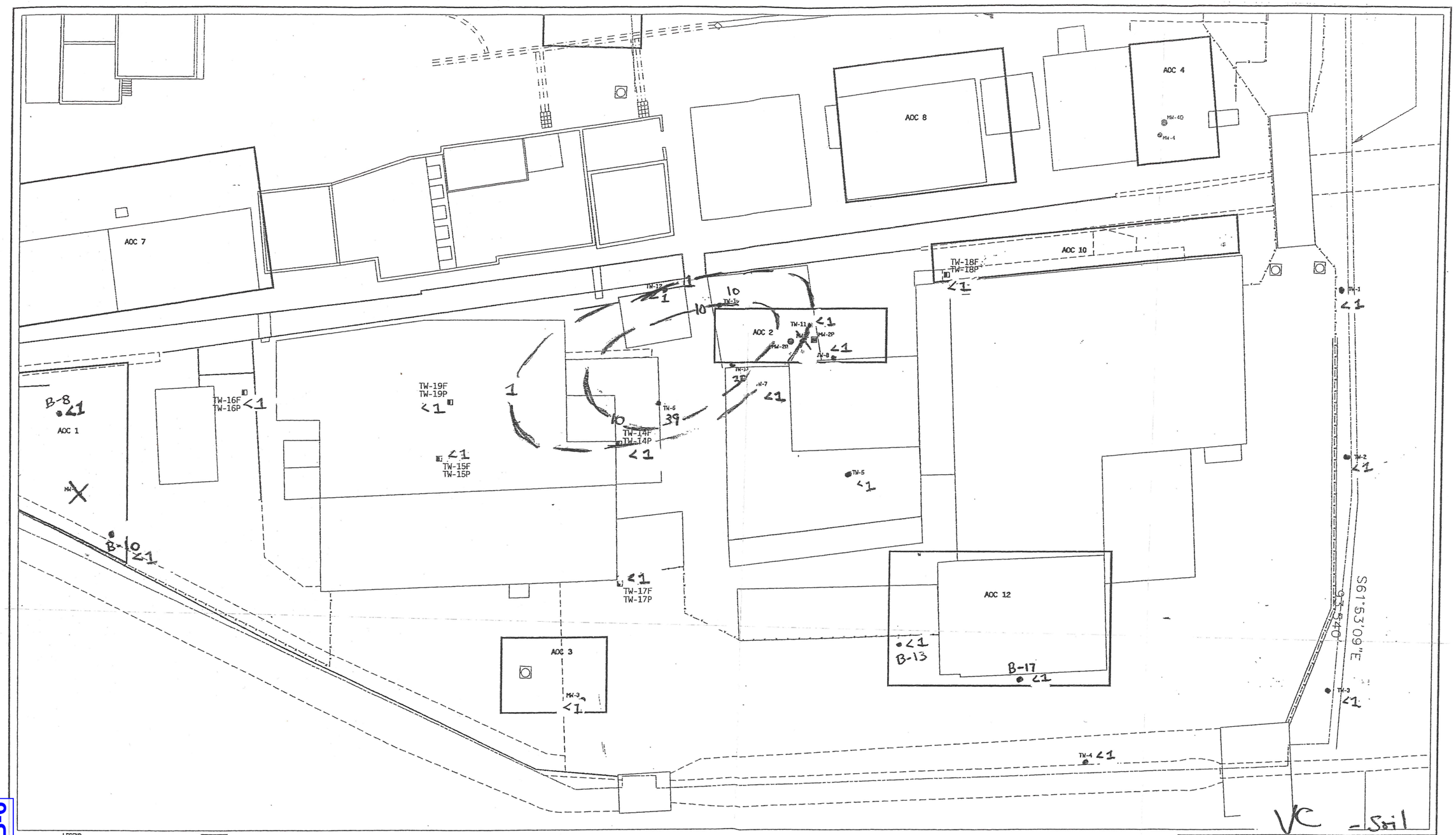
DATE: 2/17/04

FILENAME: 95127_SOILDATA_REV2

LAYOUT: LEAD

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
1259 Route 46 East, Building 1, First Floor, Parsippany, NJ 07054

Figure B-6

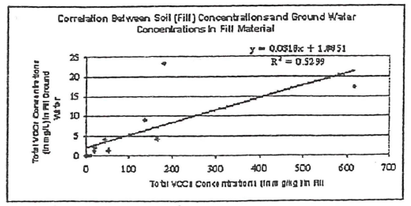


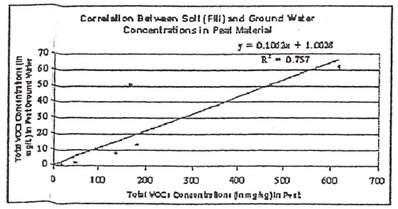
LEGEND

TW-14F / TW-14P	PROPOSED TEMPORARY WELL LOCATION AND IDs (F - FILL / P - PEAT)
MW-1	SHALLOW MONITORING WELL LOCATION AND ID
MW-4D	DEEP MONITORING WELL LOCATION AND ID
MW-2P	PEAT MONITORING WELL LOCATION AND ID
TW-1	TEMPORARY WELL LOCATION AND ID (ELM SEPTEMBER - 2003)
	SANITARY SEWER MANHOLE
	TRENCH DRAIN
	PROPERTY LINE
	INTERMITTENT DRAINAGE FEATURE
	WATER LINE
	GAS LINE
	FENCE LINE
	PROCESS SEWER

AOC 1	AREA OF CONCERN
ND	NOT DETECTED
NA	NOT AVAILABLE
NT	NOT TESTED

TW-4	TW-3AF	SAMPLE ID
SAMPLING INTERVAL	FILL	SAMPLING INTERVAL
SAMPLING DATE	8/03	SAMPLING DATE
BENZENE	47.3	BENZENE RESULT IN ug/L (NJDEP GWQS = 1 ug/L)
CHLOROBENZENE	ND	CHLOROBENZENE RESULT IN ug/L (NJDEP GWQS = 50 ug/L)
CHLOROETHANE	ND	CHLOROETHANE RESULT IN ug/L (NJDEP GWQS = 100 ug/L)
CHLOROFORM	ND	CHLOROFORM RESULT IN ug/L (NJDEP GWQS = 6 ug/L)
1,1-DICHLOROETHANE	ND	1,1-DICHLOROETHANE RESULT IN ug/L (NJDEP GWQS = 50 ug/L)
1,2-DICHLOROETHANE	ND	1,2-DICHLOROETHANE RESULT IN ug/L (NJDEP GWQS = 2 ug/L)
1,1-DICHLOROETHENE	ND	1,1-DICHLOROETHENE RESULT IN ug/L (NJDEP GWQS = 2 ug/L)
(CIS)-1,2-DICHLOROETHENE	ND	CIS-1,2-DICHLOROETHENE RESULT IN ug/L (NJDEP GWQS = 70 ug/L)
ETHYLBENZENE	ND	ETHYLBENZENE RESULT IN ug/L (NJDEP GWQS = 700 ug/L)
METHYLENE CHLORIDE	ND	METHYLENE CHLORIDE RESULT IN ug/L (NJDEP GWQS = 3 ug/L)
TETRACHLOROETHENE	ND	TETRACHLOROETHENE RESULT IN ug/L (NJDEP GWQS = 1 ug/L)
TOLUENE	2.6	TOLUENE RESULT IN ug/L (NJDEP GWQS = 1000 ug/L)
1,1,1-TRICHLOROETHANE	ND	1,1,1-TRICHLOROETHANE RESULT IN ug/L (NJDEP GWQS = 30 ug/L)
1,1,2-TRICHLOROETHANE	ND	1,1,2-TRICHLOROETHANE RESULT IN ug/L (NJDEP GWQS = 3 ug/L)
TRICHLOROETHENE	ND	TRICHLOROETHENE RESULT IN ug/L (NJDEP GWQS = 1 ug/L)
VINYL CHLORIDE	ND	VINYL CHLORIDE RESULT IN ug/L (NJDEP GWQS = 6 ug/L)
TOTAL XYLENES	9.75	TOTAL XYLENES RESULT IN ug/L (NJDEP GWQS = 1000 ug/L)





NOTES:

1) ALL RESULTS ARE IN ug/L.
2) ONLY COMPOUNDS THAT EXCEED APPLICABLE NJDEP GROUND WATER QUALITY STANDARD (GWQS) ARE SHOWN.
3) BOLD RESULTS EXCEED APPLICABLE NJDEP (GWQS) (SEE LEGEND).

SOURCE: EMCON, TROY CHEMICAL CORPORATION, INC., NEWARK, NJ, "SITE INVESTIGATION PLAN", FIGURE: 2, DATE: SEPTEMBER 1998.

0 15 30
SCALE: 1" = 15'

TITLE:
FIGURE 11
DISTRIBUTION OF VOLATILE ORGANIC COMPOUNDS IN GROUND WATER AND PROPOSED TEMPORARY WELL LOCATIONS IN THE AREA OF MW-2

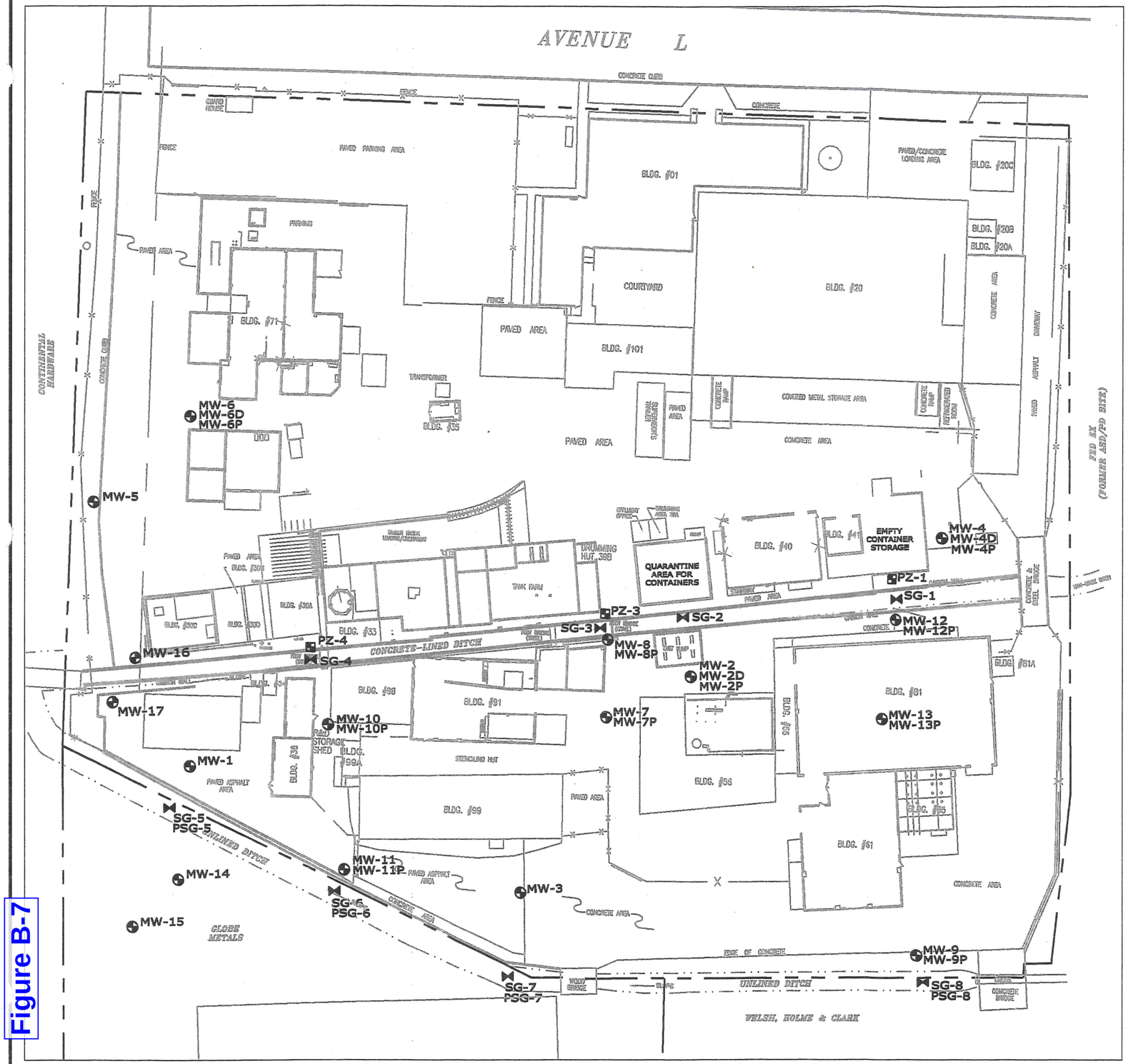
LOCATION: TROY CHEMICAL CORPORATION, INC. NEWARK, NEW JERSEY

DATE: 2/22/05

FILENAME: 95127_GW_VOCS

LAYOUT: No Data

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.



LEGEND

— — —	PROPERTY BOUNDARY (APPROXIMATE)
—·—·—	EDGE OF DITCH
—×—×—	FENCE
MW-2	MONITORING WELL LOCATION AND ID
MW-2D	DEEP WELL LOCATION AND ID
MW-2P	PEAT WELL LOCATION AND ID
PZ-1	PIEZOMETER LOCATION AND ID
SG-5/PSG-5	STAFF GAUGE AND/OR PIEZOMETER STAFF GUAGE LOCATION AND ID
═══	CONCRETE WALL AND BOTTOM
═══	GABION WALL

SOURCE:

1. "FACILITY SITE PLAN", PROVIDED BY TROY CHEMICAL COMPANY, INC., DATED 4/15/97, LAST REVISED 5/10/02, DRAWING NO. 0521.

0 60 120

SCALE: Custom

TITLE:

FIGURE 2

GENERAL SITE MAP SHOWING LOCATIONS OF MONITORING WELLS, STAFF GAUGES, AND PIEZOMETERS

LOCATION:

TROY CHEMICAL CORPORATION, INC.
ONE AVENUE L
NEWARK, NEW JERSEY

DATE: 8/26/10

FILENAME: 95127_SAMPLES

LAYOUT: SITE_SAMPLES

THE ELM GROUP
218 WALL STREET, PRINCETON, NEW JERSEY 08540
4920 YORK ROAD, SUITE 290, HOLICONG, PENNSYLVANIA 18928 612
MAIN STREET, BOONTON, NEW JERSEY 07005
267 BROADWAY, FIFTH FLOOR, NEW YORK, NEW YORK 10007
2475 BAGLYOS CIRCLE, BETHLEHEM, PENNSYLVANIA 18020
www.ExploreELM.com

Figure B-7

G:\95127-Troy\CADD\95127_SAMPLES.dwg, SITE_SAMPLES, 8/26/2010 10:11:14 AM, Bruce

LEGEND

- CURRENT EXTENT OF SUBJECT DITCH (OPEN CHANNEL) (APPROXIMATE)
- SECONDARY DITCH DISCHARGING TO SUBJECT DITCH (CURRENT AND HISTORIC) (APPROXIMATE)
- UNDERGROUND STORM WATER PIPING
- APPROXIMATE PROPERTY LINE FOR TROY CHEMICAL
- APPROXIMATE LOCATION OF AVENUE L STORM SEWER LINE
- APPROXIMATE LOCATION OF FORMER WILSON AVENUE SEWER NETWORK CONNECTION
- STORMWATER PIPING
- APPROXIMATE BOUNDARY OF LARGER PARCEL OCCUPIED BY VARIOUS CHEMICAL AND DYE MANUFACTURING FACILITIES FROM CIRCA 1900-1950 (SEE NOTE 3.)
- FORMER UPSTREAM EXTENTS OF LINED AND UNLINED DITCHES
- CATCH BASINS (SELECT BASINS NO LONGER EXIST)
- PC-5 SAMPLING TRANSECT LOCATION AND ID
- NCCW NON-CONTACT COOLING WATER

NOTES:

1. LOCATIONS/EXTENT OF SECONDARY DRAINAGE DITCHES AND UNDERGROUND CONVEYANCE STRUCTURES (PIPING, CONDUITS, ETC.) ARE APPROXIMATE AND BASED ON SITE RECONNAISSANCE AND AERIAL PHOTOGRAPH REVIEW.
2. LARGER PARCEL FORMERLY OPERATED (PRIOR TO 1950) BY AMERICAN CYANIMID, CALCO CHEMICAL, HELLER AND MERZ, AMALGAMATED DYESTUFF AND CHEMICAL, AMERICAN ULTRAMARINE AND GLOBAL ANILINE WORKS (PREDECESSOR OF CURRENT GLOBE METALS).THE EASTERLY AND WESTERLY EXTENTS OF THIS LARGER PARCEL WERE REGIONAL RAIL LINES AND AVENUE L (RESPECTIVELY). THE NORTHERLY EXTENT WAS WILSON AVENUE. THE SOUTHERNLY EXTENT HAS BEEN REPORTED AS "ALMOST TO DELANCEY STREET".

SOURCE:

1. "HYDRAULICS AND HYDROLOGY STUDY STREAM PLAN", PREPARED BY CIVIL ENGINEERING CORPORATION, DATED MARCH 1997, PROJECT NO. 97-048, DRAWING NOS. 4, 5 & 6 OF 11.
2. NEW JERSEY 2007-2008 HIGH RESOLUTION ORTHOPHOTOGRAPHY, NEW JERSEY OFFICE OF INFORMATION TECHNOLOGY, OFFICE OF GEOGRAPHIC INFORMATION SYSTEMS, TILES #K7A1-07, K6C13-07, J7B4-07 AND J6D16-07.
3. FIGURE ENTITLED "ANALYTICAL SAMPLING RESULTS ABOVE PROPOSED REMEDIATION GOALS" PREPARED BY L. ROBERT KIMBALL & ASSOC., INC., DATED 1/29/98, REVISED DATE 6/14/99.
4. APPROXIMATE BOUNDARY OF LARGER PARCEL (NOTE 3) BASED ON AERIAL PHOTOGRAPH AND SANBORN REVIEW AS WELL AS DESCRIPTION PROVIDED IN NJDEP BERETSKY MEMO.

0 100 200

SCALE: 1" = 100'

TITLE: FIGURE 2

RI STUDY AREA INCLUDING CURRENT/HISTORIC DISCHARGE LOCATIONS AND RI SAMPLING TRANSECTS.

LOCATION: TROY CHEMICAL COMPANY NEWARK, NEW JERSEY

DATE: 2/23/11

FILENAME: 95127-07_PIERSONS-AERIAL_REV1

LAYOUT: OVERALL

The elm Group

Figure B-9

Monitoring Well And Temporary Well Location Figure

Troy Chemical Co.
1 Avenue L, Newark, NJ

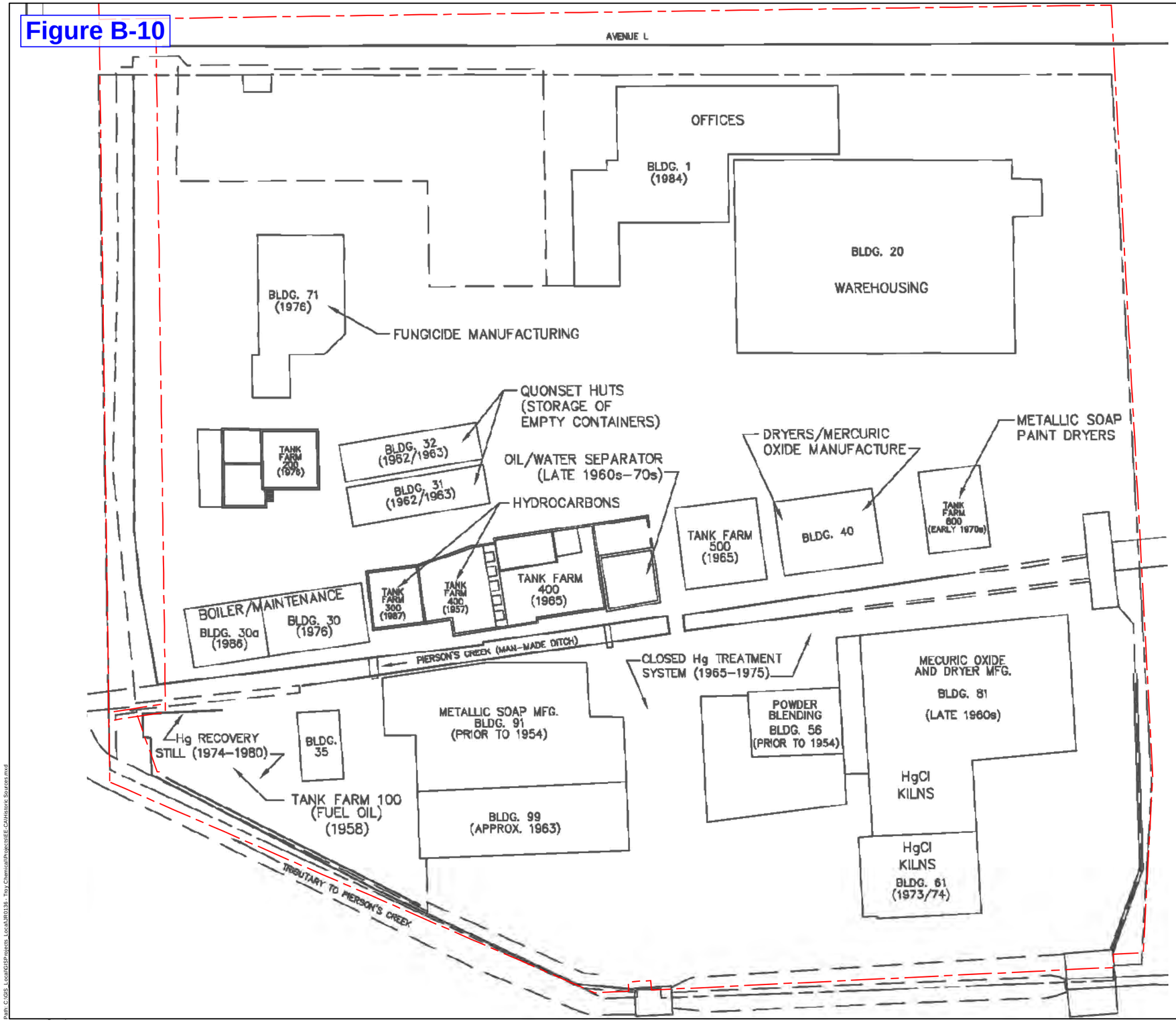
Geosyntec consultants

Ewing, NJ | August 2015

Figure 3-1

Path: C:\GIS_Local\GISProjects_Local\JR01\36 - Troy Chemical\Projects\EE-CAM\W & TW Locations.mxd

Figure B-10



Legend

— – Boundary Line (Pronesti Survey 3-6-2014)

Sources:
EMCON, Troy Chemical Corporation, INC., Newark, NJ. "Summary of Historical Materials/Processes", Figure 4, Dated November 1997.

60 30 0 60 Feet

Historical Site Operations

Troy Chemical Co.
1 Avenue L, Newark, NJ

Geosyntec consultants

Ewing, NJ | August 2015

Figure
2-1

Path: C:\GIS_Local\GISProjects_Local\JR0136 - Troy Chemical\Projects\EE-CA\Historic Sources.mxd

Figure B-11
N
Former ASD
(Block 5038, Lot 70)
B81-IA2
B81-IA1
B40-IA2
B81-IA3
B40-IA1
AMBIENT/B30-AMBIENT
B56-IA2
B56-IA1
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
WH & C
(Block 5038, Lot 96)
B99-IA2
B99-IA1
B30-IA2
B30-IA1B
B36-IA1
B30-IA1
Globe Metals
(Block 5038, Lot 99)
Continental Hardware
(Block 5038, Lot 7)
Legend
Indoor Air Sample Location
Outdoor Air Sample Location
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
80 40 0 80 Feet
Vapor Intrusion Sample Location Figure
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
3-4
Ewing, NJ
July 2015
Path: C:\GIS_Local\GISProjects_Local\JR0136 - Troy Chemical\Projects\EE-CA\VI Locations.mxd

Figure B-12
N
BR-01
B-2
BR-02
Former ASD
(Block 5038, Lot 70)
B-5
PC-1-W
PC-1-E/VC/T/SC
PC-1-10S-W
PIT-01A
PIT-01B
B-12
PC-1-10S-E
B-15
B-6
PIT-02A
PC-2-W
PC-2-SC/T/W
B-11
UT-1-C-VC/SC/C
UT-1-W
UT-1-E
BR-10V
BR-10
B-17
BR-11
Avenue L
B-1
Troy Chemical Corporation
(Block 5038, Lot 98)
PIT-02B
B-13
WH & C
(Block 5038, Lot 96)
B-4
PC-3-20N-W
PC-3-20N-E
BR-12
BRS-11
B-16
PC-3-W-W/VC
PC-3-SC/E/T
BR-13
UT-2-SC/W
PC-3-20S-W
PC-3-20S-E
UT-2-C
UT-2-E
PIT-03
PC-3-50S-W
PC-3-50S-E
BR-14
TP-14
BR-15
PIT-04
BR-16
PC-4-T
PC-4-W
PC-4-E
PC-5-10N-E
PC-4-SC
UT-3-W/SC
UT-3-C/VC
B-3
BR-28A
BR-28
BR-27A
BR-27
B-14
PIT-05
BR-26
BR-25
BR-25A
B-7
PC-5-25N
BR-17V
BR-17
UT-4-W/SC
UT-4-C
B-10
B-8
BR-24
PC-5-10N
PC-5-25N
TP-19
BR-18
BR-24A
PC-5-E
PC-5-W
BR-19V
BR-19
BR-23A
BR-23
B-9
UT-5-W/SC
UT-5-C/VC
UT-5-E
BR-22A
BR-22
BR-20
BR-20A
PIT-06
BR-21A
BR-21
Continental Hardware
(Block 5038, Lot 7)
Globe Metals
(Block 5038, Lot 99)
Legend
Ditch Material Sample Location
Soil Sample Location
Test Pit Sample Location
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
80 40 0 80 Feet
Soil and Ditch Material Sample Location Figure
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
3-3
Ewing, NJ
August 2015
Path: C:\GIS_Local\GISProjects_Local\JR0136 - Troy Chemical\Projects\EE-CA\Soil-Sed Locations.mxd

Figure B-13
Former ASD
(Block 5038, Lot 70)
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
N
Legend
Benzene in Soil and Solid Material(mg/kg)
<0.1
0.1 - 1.0
1.0 - 10
10 - 100
100 - 1,000
>1,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Note: Maximum concentration at any depth for a given location is shown.
Source: Troy data from ELM 2000-2014 and Geosyntec 2015.
80 40 0 80 Feet
Soil and Solid Material Impacts (Benzene)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-1
Ewing, NJ
August 2015

Figure B-14
Former ASD
(Block 5038, Lot 70)
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
N
Legend
Mercury in Soil and Solid Material (mg/kg)
<1.0
1.0 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Note: Maximum concentration at any depth for a given location is shown.
Source: Troy data from ELM 2000-2014 and Geosyntec 2015.
80 40 0 80 Feet
Soil and Solid Material Impacts (Mercury)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-2
Ewing, NJ
August 2015

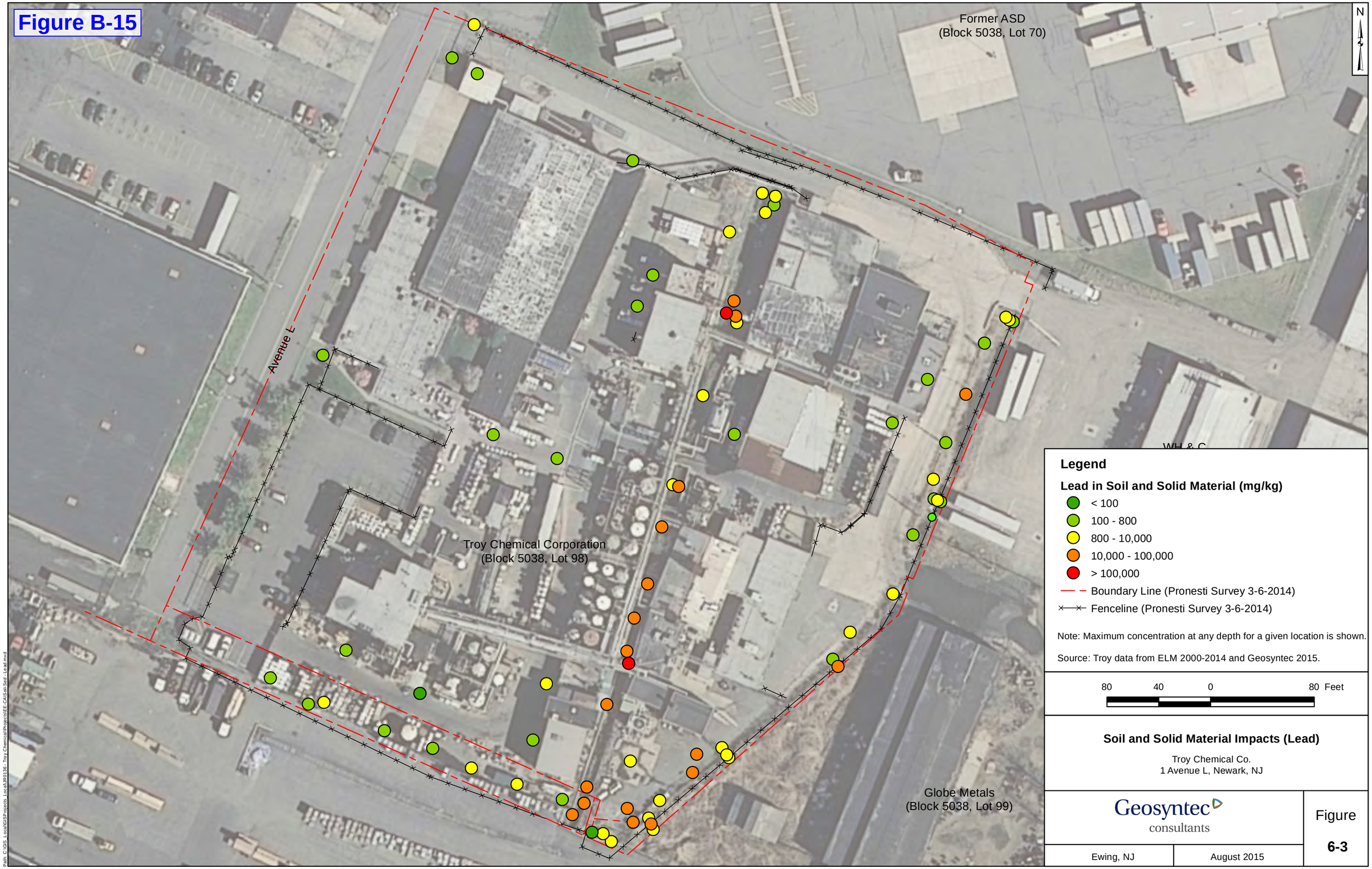


Figure B-15
Former ASD
(Block 5038, Lot 70)
N
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
Legend
Lead in Soil and Solid Material (mg/kg)
< 100
100 - 800
800 - 10,000
10,000 - 100,000
> 100,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Note: Maximum concentration at any depth for a given location is shown.
Source: Troy data from ELM 2000-2014 and Geosyntec 2015.
80 40 0 80 Feet
Soil and Solid Material Impacts (Lead)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-3
Ewing, NJ
August 2015

Figure B-16
N
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
Legend
Total PCBs in Soil and Solid Material (mg/kg)
< 0.1
0.1 - 1.0
1.0 - 10
10- 100
>100
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Note: Maximum concentration at any depth for a given location is shown.
Source: Troy data from ELM 2000-2014 and Geosytnec 2015.
80 40 0 80 Feet
Soil and Solid Material Impacts
(Polychlorinated Biphenyls)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Ewing, NJ
August 2015
Figure
6-4

Figure B-17
Former ASD
(Block 5038, Lot 70)
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
N
Legend
4,4'-DDD in Soil and Solid Material (mg/kg)
< 0.1
0.1 - 1.0
1.0 - 10
> 10
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Note: Maximum concentration at any depth for a given location is shown.
Source: Troy data from ELM 2000-2014.
80 40 0 80 Feet
Soil and Solid Material Impacts (Pesticides - 4,4'-DDD)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-5
Ewing, NJ
August 2015

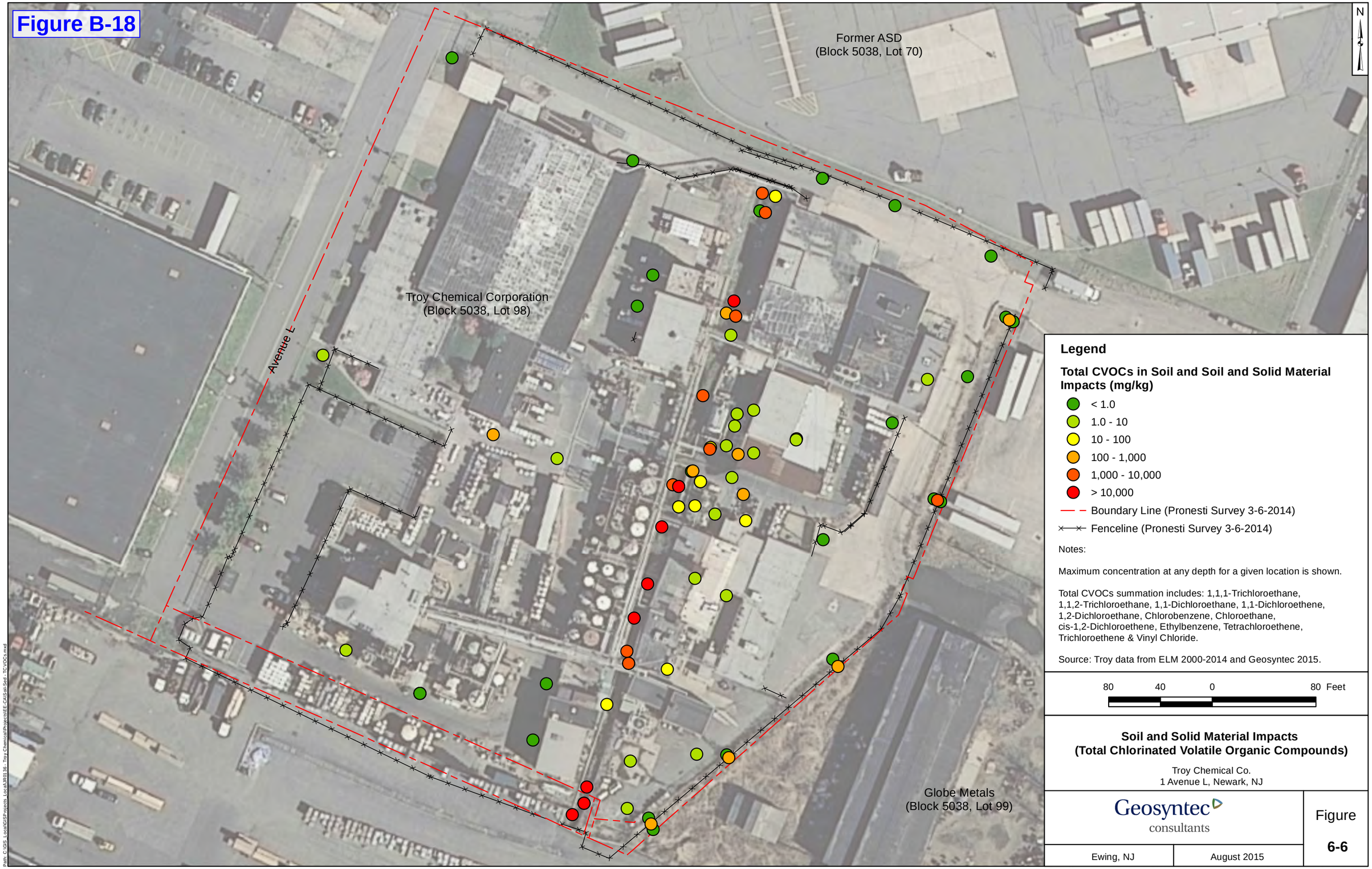


Figure B-18
Former ASD
(Block 5038, Lot 70)
Troy Chemical Corporation
(Block 5038, Lot 98)
Avenue L
Globe Metals
(Block 5038, Lot 99)
N
Legend
Total CVOCs in Soil and Soil and Solid Material Impacts (mg/kg)
< 1.0
1.0 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Notes:
Maximum concentration at any depth for a given location is shown.
Total CVOCs summation includes: 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Chlorobenzene, Chloroethane, cis-1,2-Dichloroethene, Ethylbenzene, Tetrachloroethene, Trichloroethene & Vinyl Chloride.
Source: Troy data from ELM 2000-2014 and Geosyntec 2015.
80 40 0 80 Feet
Soil and Solid Material Impacts
(Total Chlorinated Volatile Organic Compounds)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-6
Ewing, NJ
August 2015
Path: C:\GIS_Local\GISProjects_Local\JR0138 - Troy Chemical\Projects\EE-CA\Soil-Sed - TCVOCs.mxd

Figure B-19
Former ASD
(Block 5038, Lot 70)
MW04D
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
MW06D
Globe Metals
(Block 5038, Lot 99)
N
Legend
Lead in Groundwater (µg/L)
< 1.0
1.0 - 10
10 - 100
100 - 1,000
> 1,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Most recent groundwater data available(May, 2000) shown.
Source: Troy data from ELM, May 2000. 2000-2014.
80 40 0 80 Feet
Deep Groundwater (Lead)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Ewing, NJ
July 2015
Figure
6-7

Figure B-20
Former ASD
(Block 5038, Lot 70)
MW04D
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
MW06D
Globe Metals
(Block 5038, Lot 99)
N
Legend
Mercury in Groundwater (µg/L)
< 0.1
1.0 - 10
10 - 100
>100
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Most recent groundwater data available(May, 2000) shown.
Source: Troy data from ELM, May 2000. 2000-2014.
80 40 0 80 Feet
Deep Groundwater (Mercury)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-8
Ewing, NJ
July 2015

Figure B-21
Former ASD
(Block 5038, Lot 70)
MW04D
MW02D
MW06D
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
N
Legend
Total CVOCs in Groundwater (µg/L)
< 1.0
1.0 - 100
10 - 100
100 - 1,000
>1,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Total CVOCs summation includes: 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Chlorobenzene, Chloroethane, cis-1,2-Dichloroethene, Ethylbenzene, Tetrachloroethene, Trichloroethene & Vinyl Chloride.
Most recent groundwater data available
(MW-04D, MW06D: May, 2000 & MW02D: August, 2003) shown.
Source: Troy data from ELM, May, 2000 & August, 2003.
80 40 0 80 Feet
Deep Groundwater Impacts
(Total Chlorinated Volatile Organic Compounds)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-9
Ewing, NJ
August 2015

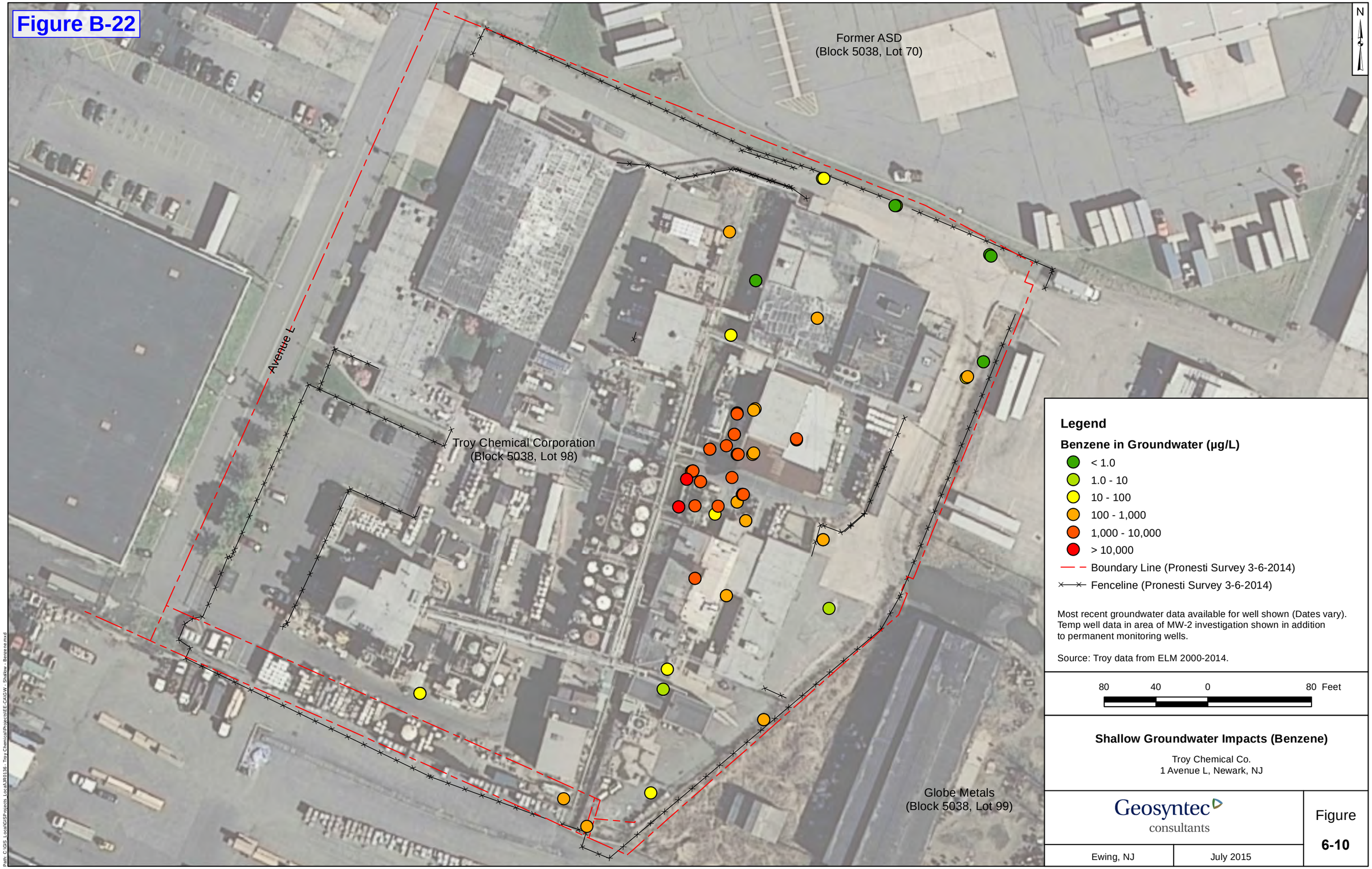


Figure B-22
Former ASD
(Block 5038, Lot 70)
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
N
Legend
Benzene in Groundwater (µg/L)
< 1.0
1.0 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Most recent groundwater data available for well shown (Dates vary).
Temp well data in area of MW-2 investigation shown in addition
to permanent monitoring wells.
Source: Troy data from ELM 2000-2014.
80 40 0 80 Feet
Shallow Groundwater Impacts (Benzene)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Ewing, NJ
July 2015
Figure
6-10

Figure B-23
Former ASD
(Block 5038, Lot 70)
MW04P
MW04
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
MW06P
Globe Metals
(Block 5038, Lot 99)
N
Legend
Lead in Groundwater (µg/L)
1.0 - 10
10 - 100
>100
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Most recent groundwater data available for well shown
(MW-04: November, 2004 & MW-04P, MW06P: May, 2000.
Source: Troy data from ELM 2000-2004.
80 40 0 80 Feet
Shallow Groundwater Impacts (Lead)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Ewing, NJ
August 2015
Figure
6-11

Figure B-24
Former ASD
(Block 5038, Lot 70)
N
MW04P
MW04
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
WH & C
(Block 5038, Lot 96)
MW06P
Globe Metals
(Block 5038, Lot 99)
Legend
Mercury in Groundwater (µg/L)
Non-Detect
1 - 10
>100
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Most recent groundwater data available for well shown
(MW-04: November, 2004 & MW-04P, MW06P: May, 2000.
Source: Troy data from ELM 2000-2004.
80 40 0 80 Feet
Shallow Groundwater Impacts (Mercury)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-12
Ewing, NJ
August 2015

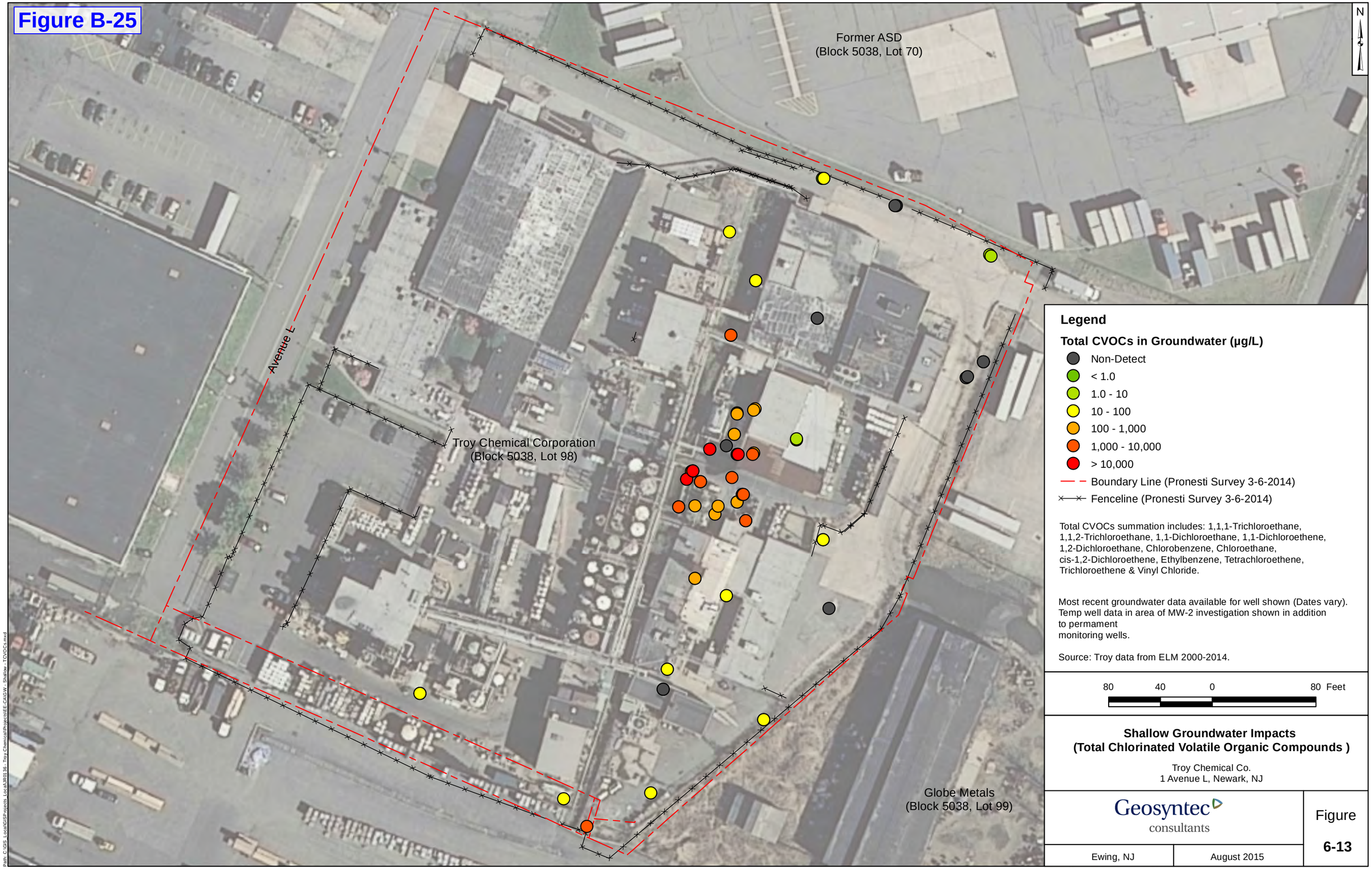
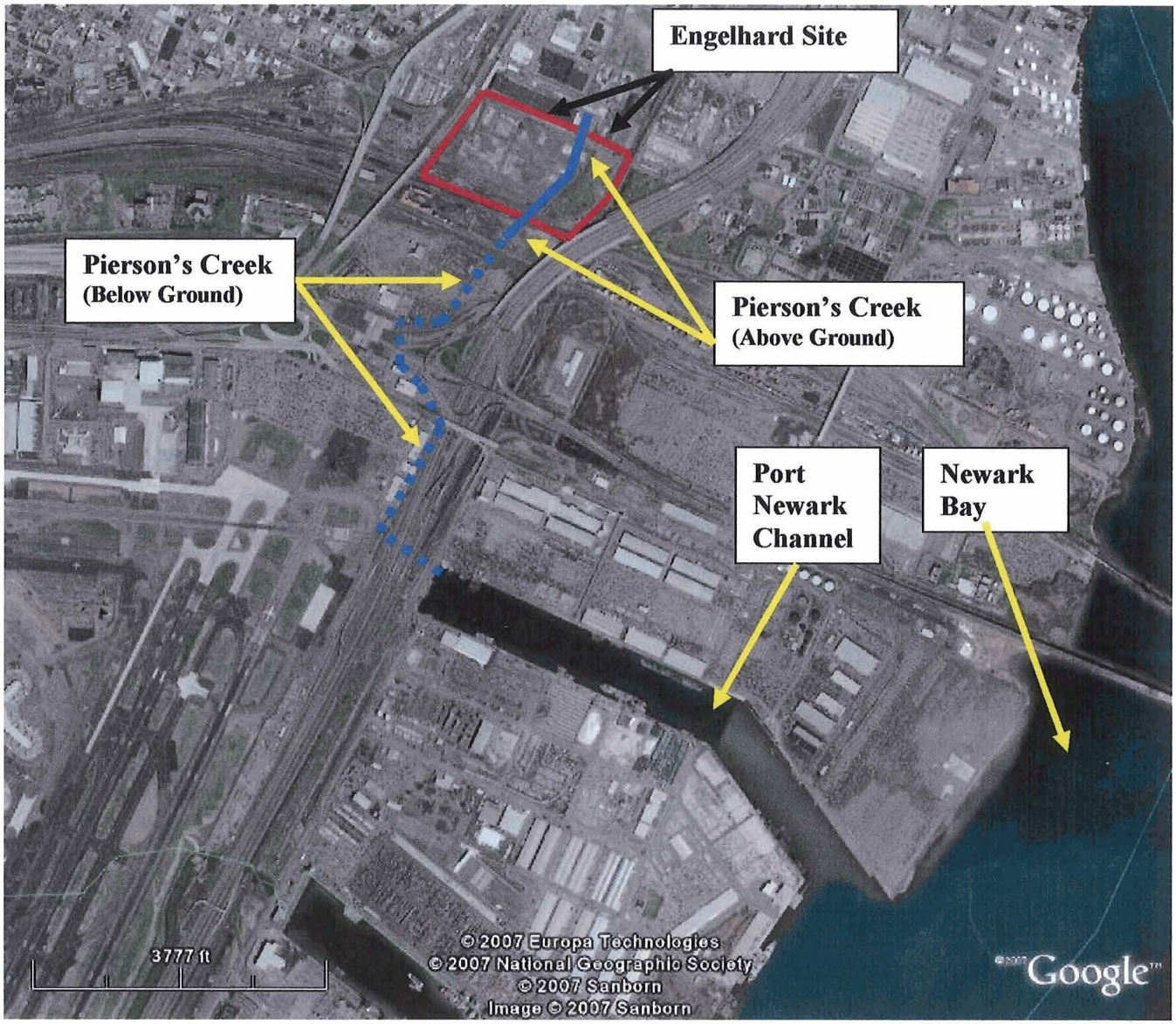


Figure B-25
Former ASD
(Block 5038, Lot 70)
Avenue L
Troy Chemical Corporation
(Block 5038, Lot 98)
Globe Metals
(Block 5038, Lot 99)
N
Legend
Total CVOCs in Groundwater (µg/L)
Non-Detect
< 1.0
1.0 - 10
10 - 100
100 - 1,000
1,000 - 10,000
> 10,000
Boundary Line (Pronesti Survey 3-6-2014)
Fenceline (Pronesti Survey 3-6-2014)
Total CVOCs summation includes: 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Chlorobenzene, Chloroethane, cis-1,2-Dichloroethene, Ethylbenzene, Tetrachloroethene, Trichloroethene & Vinyl Chloride.
Most recent groundwater data available for well shown (Dates vary). Temp well data in area of MW-2 investigation shown in addition to permament monitoring wells.
Source: Troy data from ELM 2000-2014.
80 40 0 80 Feet
Shallow Groundwater Impacts
(Total Chlorinated Volatile Organic Compounds)
Troy Chemical Co.
1 Avenue L, Newark, NJ
Geosyntec consultants
Figure
6-13
Ewing, NJ
August 2015

Figure B-26

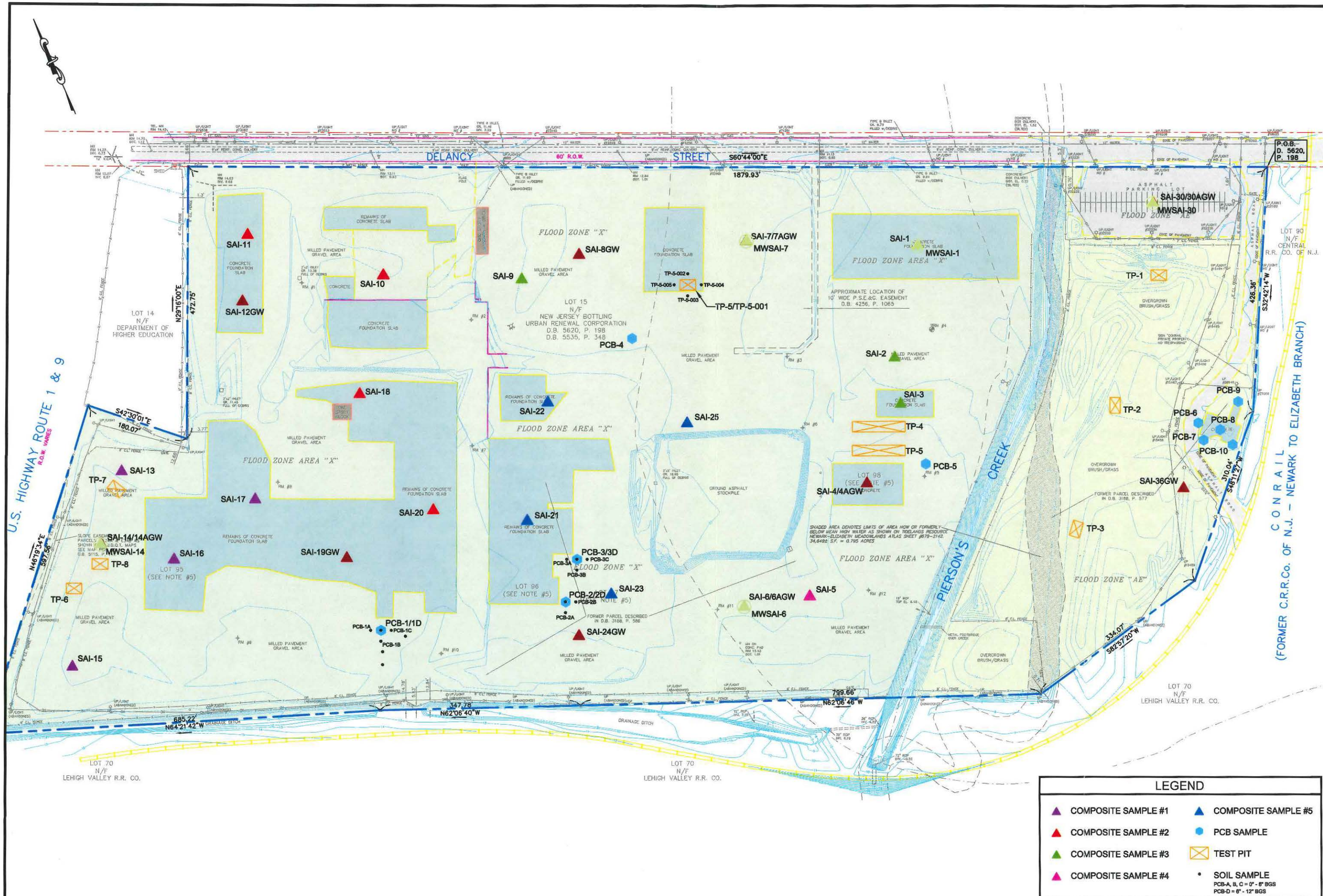


Engelhard Corporation
Expanded Aerial Photograph View

–

Aerial Photograph copyright 2007
Photo Source: Google Earth (Europa Technologies/National Geographic Society/Sanborn)

Site boundary line locations and drainage features as shown are approximations only



LEGEND

- COMPOSITE SAMPLE #1
- COMPOSITE SAMPLE #2
- COMPOSITE SAMPLE #3
- COMPOSITE SAMPLE #4
- COMPOSITE SAMPLE #5
- PCB SAMPLE
- TEST PIT
- SOIL SAMPLE
  PCB-A, B, C = 0" - 6" BGS
  PCB-D = 6" - 12" BGS

NO.	DESCRIPTION	DATE:	BY:	APR:
	REVISIONS			

DRAWN BY: DATE:
DESIGNED BY: DATE:
APPROVED BY: DATE:

ANDREW W. SCHUELLER, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. GE 38347
DATE

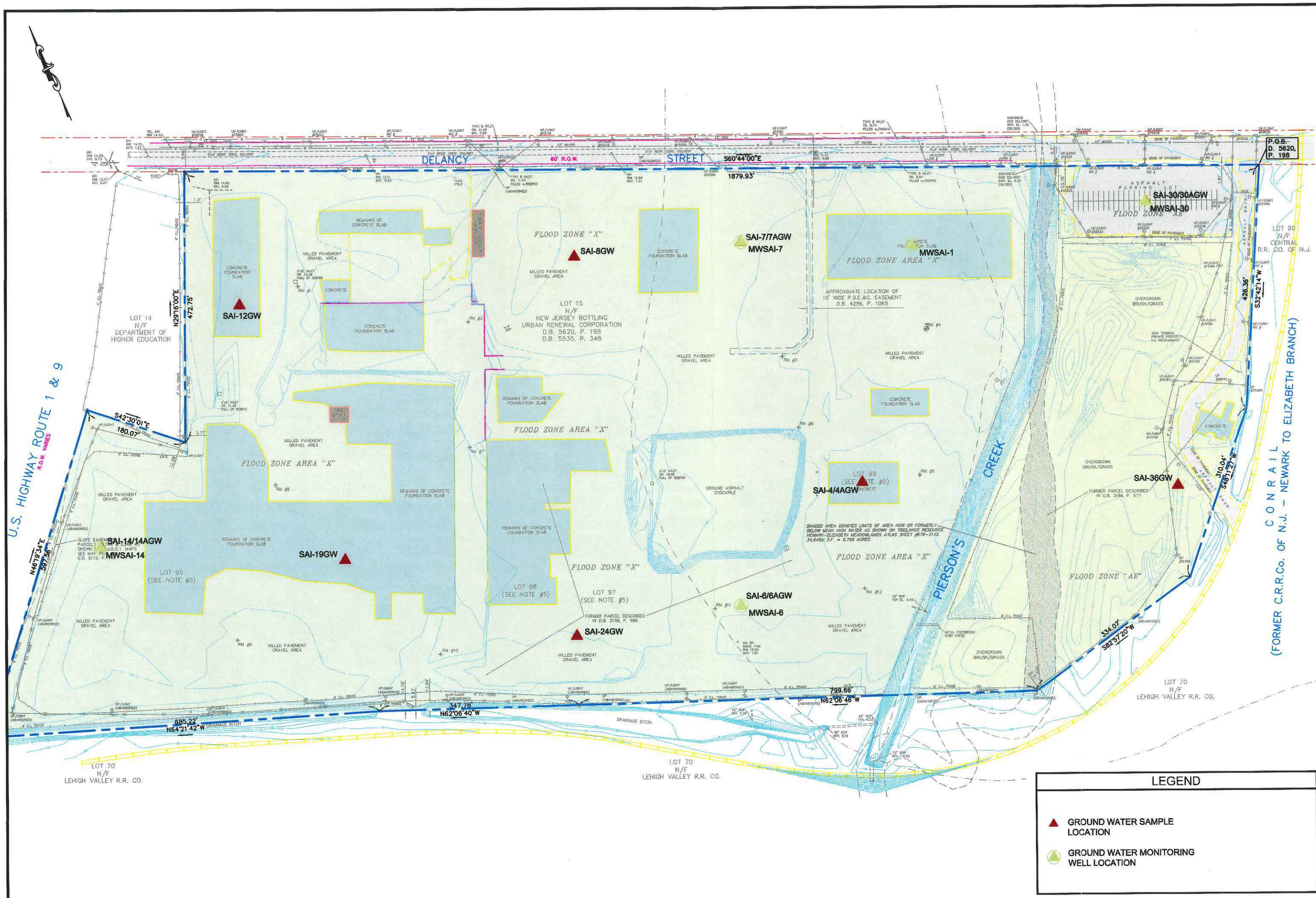
MATRIXNEWORLD
Enabling Progress
120 Eagle Rock Ave., Suite 207
East Hanover, New Jersey 07936
Tel: 973-240-1800
Fax: 973-240-1818
www.matrixnewworld.com

429 DELANCY STREET
BLOCK 5042 LOTS 15, 95, 96, 97 & 98
CITY OF NEWARK, ESSEX COUNTY, NJ

SOIL SAMPLE LOCATION PLAN

PROJECT NUMBER: 06-188E

SCALE: 1" = 150'



NO.	DESCRIPTION	DATE:	BY:	APR:
	REVISIONS			

DRAWN BY: DATE:
DESIGNED BY: DATE:
APPROVED BY: DATE:

ANDREW W. SCHUELLER, P.E.
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO. GE 38347

DATE

MATRIX NEWORLD
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120 Eagle Rock Ave., Suite 207
East Hanover, New Jersey 07936
WBE / DBE / SBE
Tel: 973-240-1800
Fax: 973-240-1818
www.matrixneworld.com

429 DELANCY STREET
BLOCK 5042 LOTS 15, 95, 96, 97 & 98
CITY OF NEWARK, ESSEX COUNTY, NJ

GROUND WATER SAMPLE LOCATION PLAN

PROJECT NUMBER: 06-188E

SCALE: 1" = 150'

6

Figure B-29

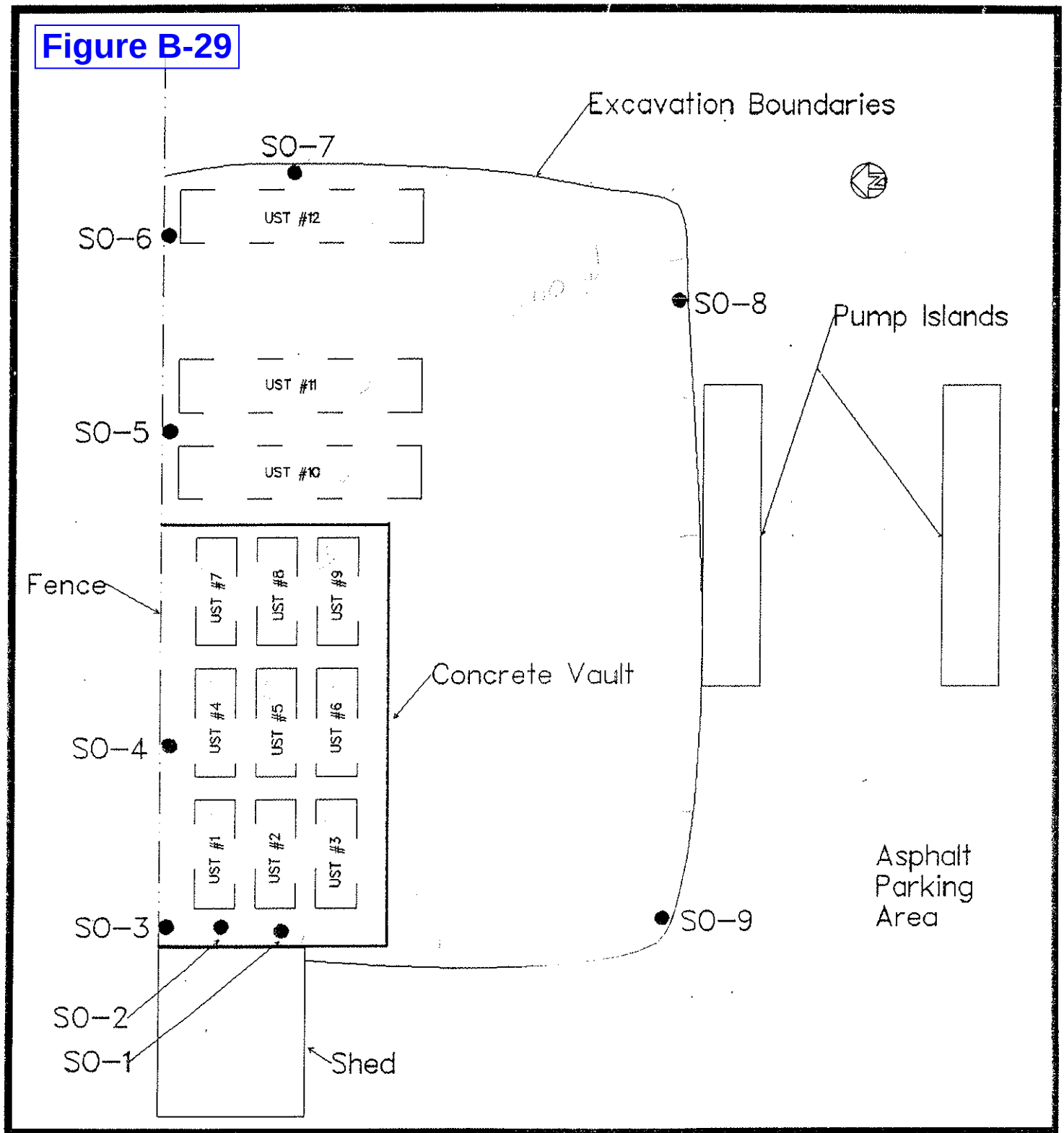


FIGURE 3.0:

POST EXCAVATION SOIL SAMPLING MAP

TNT/Red Star Express
400 Delancy Street
Newark, New Jersey

TTI ENVIRONMENTAL, INC.
4 East Stow Road
Marlton, New Jersey 08053
609/985-8800 1-800-228-8018

1" = 14'	DRAWN BY MJA	DATE
94-452	APP'D BY	DRAWING NO 3.0

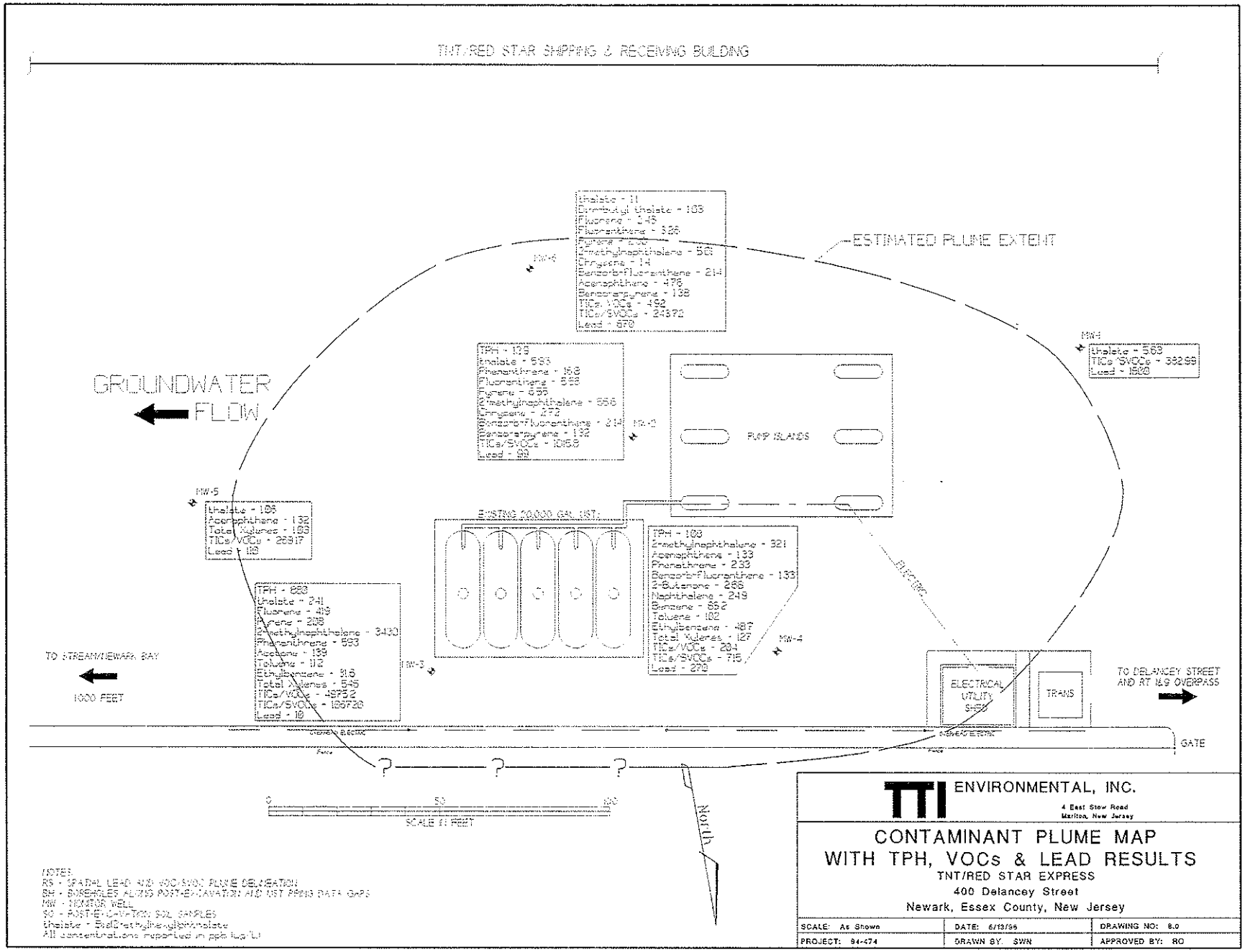

TNT/RED STAR SHIPPING & RECEIVING BUILDING
ESTIMATED PLUME EXTENT
GROUNDWATER FLOW
PUMP ISLANDS
EXISTING 20,000 GAL UST
ELECTRICAL UTILITY SHED
TRANS
TO STREAM/NEWARK BAY
1000 FEET
TO DELANCEY STREET AND RT 1&9 OVERPASS
GATE
SCALE IN FEET
North
NOTES:
RS - SPATIAL LEAD AND VOC/SVOC PLUME DELINEATION
BH - BOREHOLES ALONG POST-EXCAVATION AND UST PRING DATA GAPS
MW - MONITOR WELL
SO - POST-EXCAVATION SOIL SAMPLES
thalate - 5ss(2-ethylhexyl)phthalate
All concentrations reported in ppb (ug/L)
TTI ENVIRONMENTAL, INC.
4 East Stow Road
Marlton, New Jersey
CONTAMINANT PLUME MAP
WITH TPH, VOCs & LEAD RESULTS
TNT/RED STAR EXPRESS
400 Delancey Street
Newark, Essex County, New Jersey
SCALE: As Shown
DATE: 6/13/95
DRAWING NO: 8.0
PROJECT: 94-474
DRAWN BY: SWN
APPROVED BY: RO

Figure B-30

Figure B-31

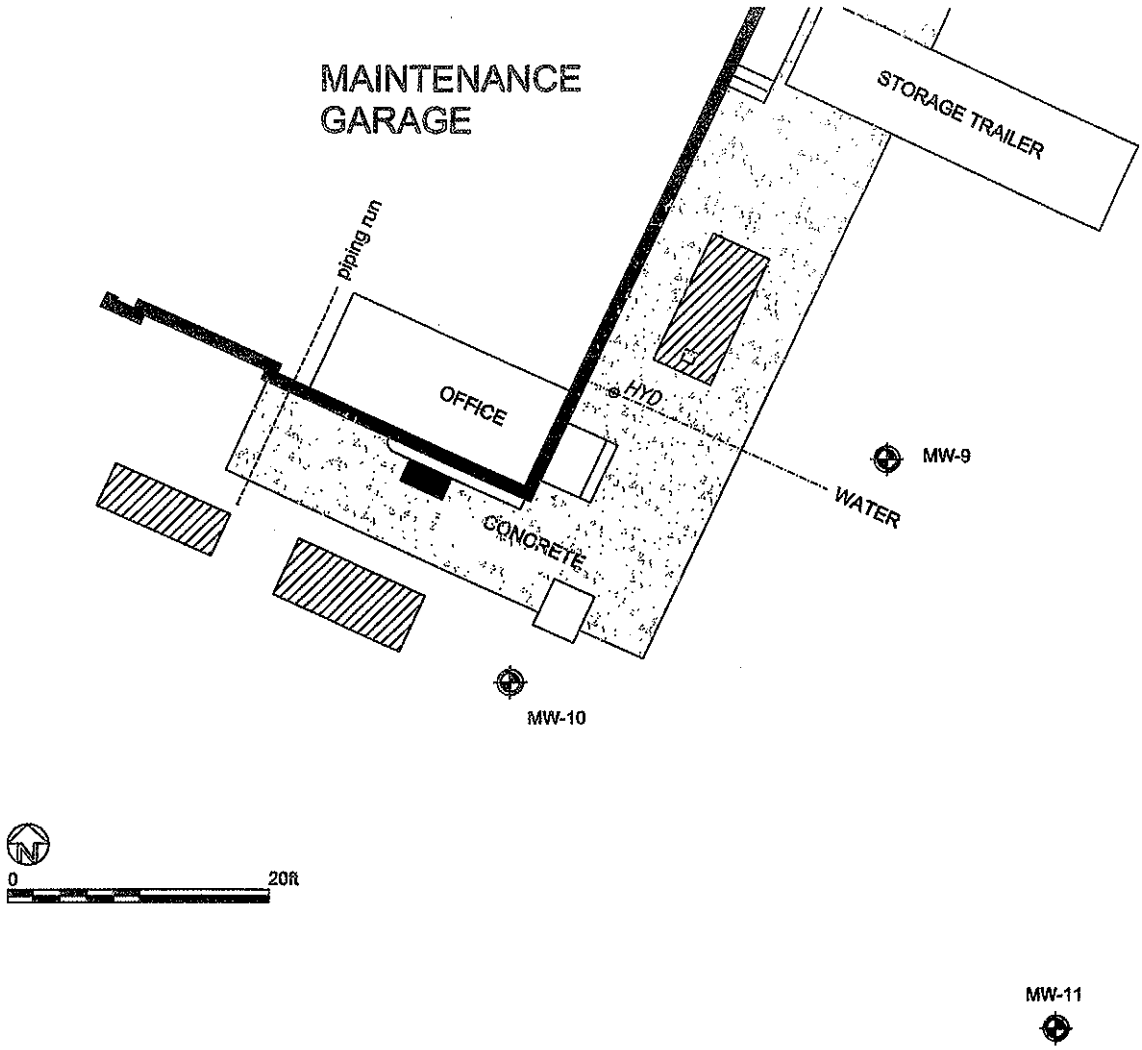


FIGURE 3.0
AOC 2 Well Location Map

Former USF Red Star
400 Delancy Street
Newark, Essex County, New Jersey

TTI Environmental, Incorporated
1253 North Church Street
Moorestown, New Jersey 08057
856/840-8800
www.ttienv.com

SCALE	DRAWN BY	DATE
As shown	PJR	4/20/2007
PROJECT	APP'D BY	DRAWING NO.
05-1071		

Figure B-32

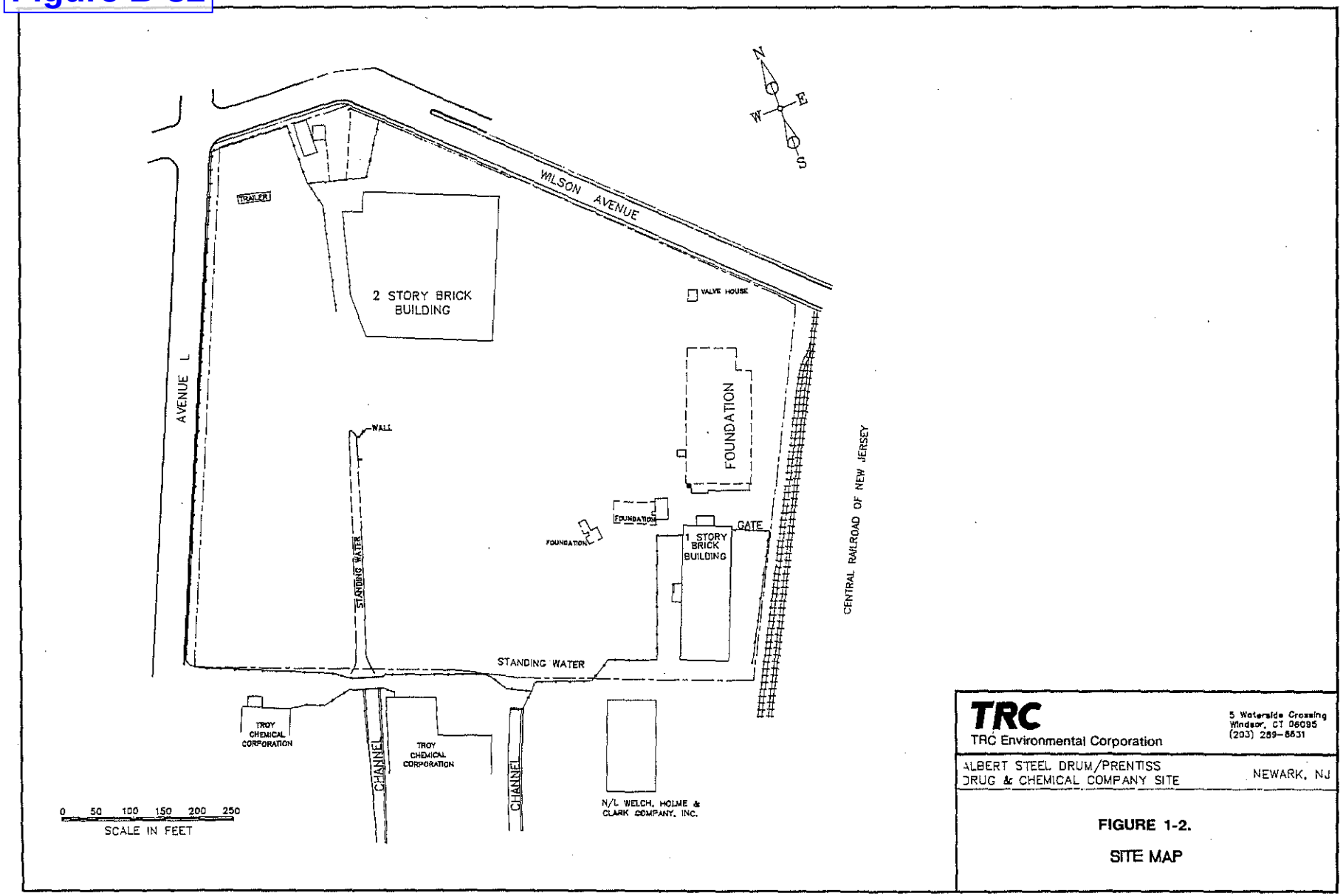
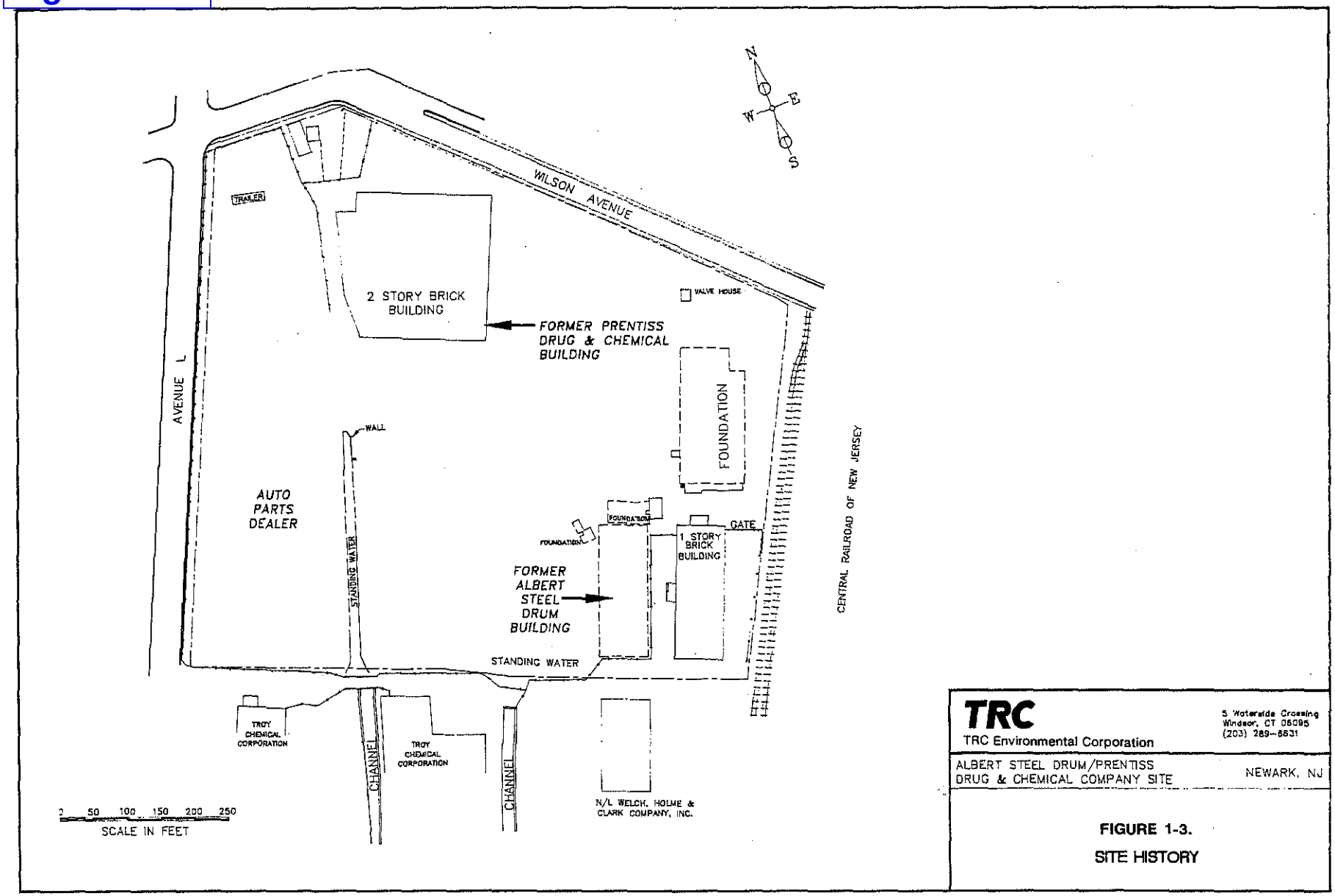

N
E
W
S
WILSON AVENUE
TRAILER
2 STORY BRICK BUILDING
VALVE HOUSE
AVENUE L
FOUNDATION
WALL
STANDING WATER
FOUNDATION
FOUNDATION
1 STORY BRICK BUILDING
GATE
CENTRAL RAILROAD OF NEW JERSEY
STANDING WATER
TROY CHEMICAL CORPORATION
CHANNEL
TROY CHEMICAL CORPORATION
CHANNEL
N/L WELCH, HOLME & CLARK COMPANY, INC.
0 50 100 150 200 250
SCALE IN FEET
TRC
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631
ALBERT STEEL DRUM/PRENTISS
DRUG & CHEMICAL COMPANY SITE
NEWARK, NJ
FIGURE 1-2.
SITE MAP

Figure B-33



TRC
TRC Environmental Corporation

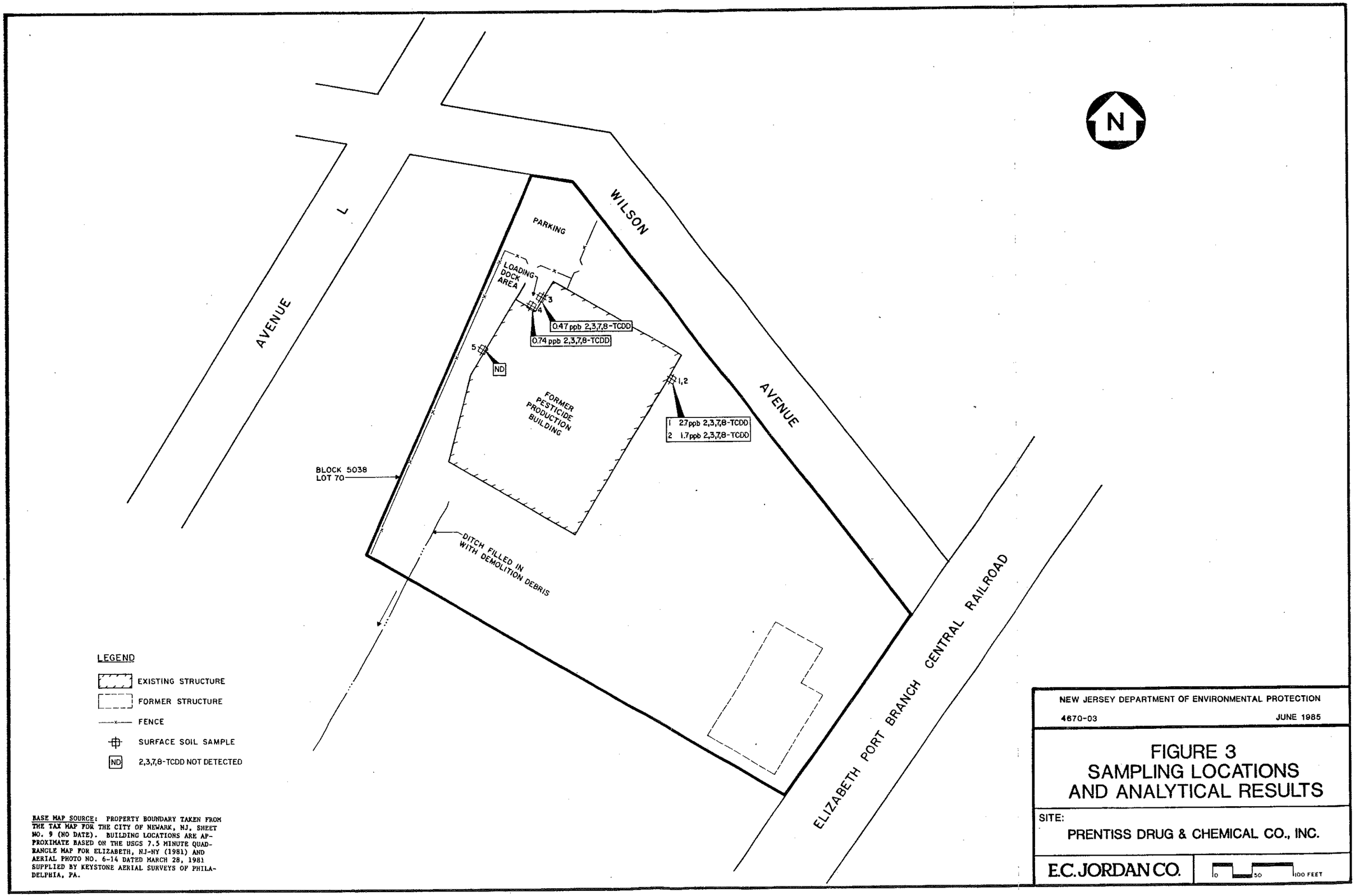
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

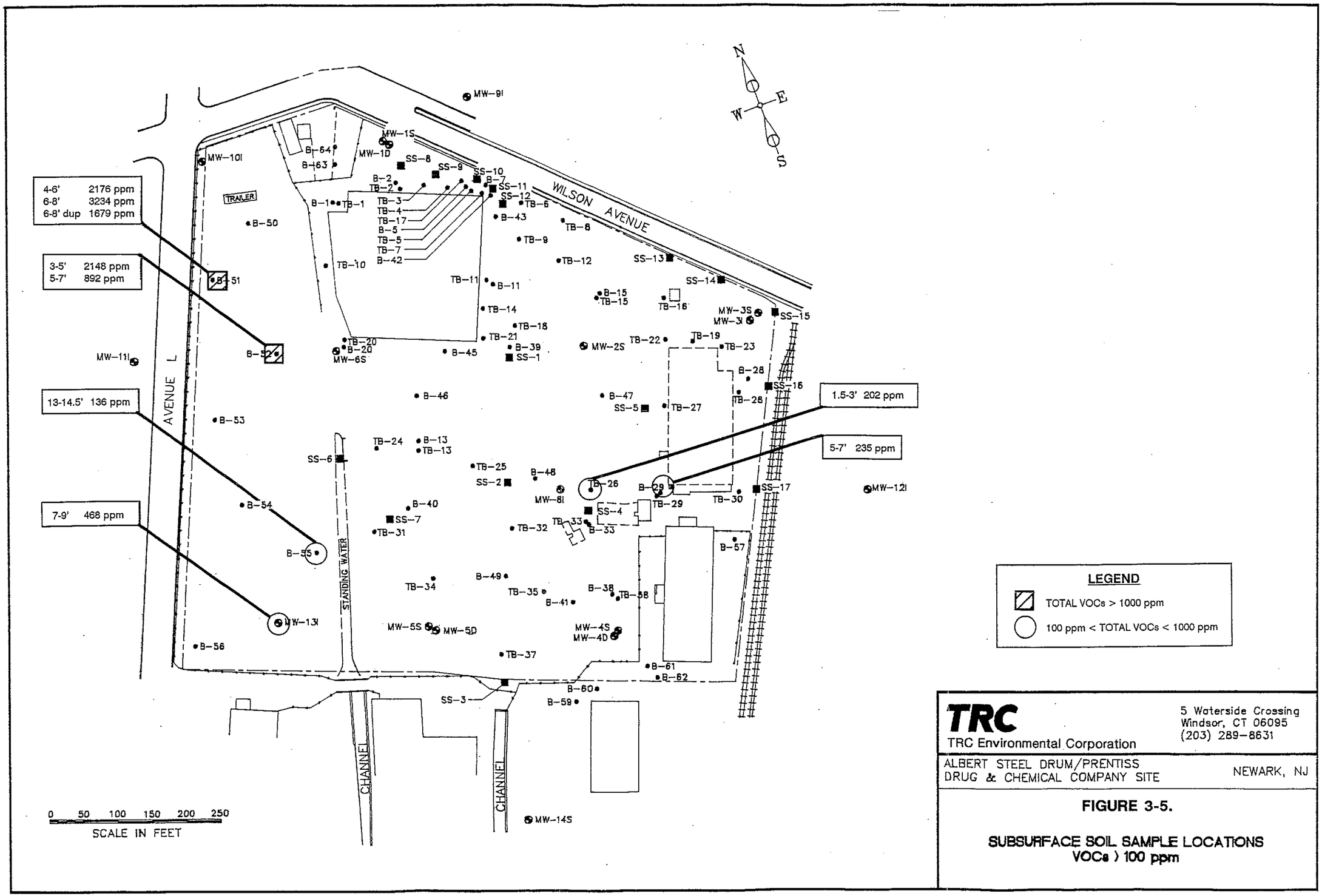
ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 1-3.

SITE HISTORY


N
L
AVENUE
WILSON
AVENUE
PARKING
LOADING DOCK AREA
3
4
0.47 ppb 2,3,7,8-TCDD
0.74 ppb 2,3,7,8-TCDD
5
ND
1,2
1 2.7 ppb 2,3,7,8-TCDD
2 1.7 ppb 2,3,7,8-TCDD
FORMER PESTICIDE PRODUCTION BUILDING
BLOCK 5038
LOT 70
DITCH FILLED IN WITH DEMOLITION DEBRIS
ELIZABETH PORT BRANCH CENTRAL RAILROAD
LEGEND
EXISTING STRUCTURE
FORMER STRUCTURE
FENCE
SURFACE SOIL SAMPLE
ND 2,3,7,8-TCDD NOT DETECTED
BASE MAP SOURCE: PROPERTY BOUNDARY TAKEN FROM THE TAX MAP FOR THE CITY OF NEWARK, NJ, SHEET NO. 9 (NO DATE). BUILDING LOCATIONS ARE APPROXIMATE BASED ON THE USGS 7.5 MINUTE QUADRANGLE MAP FOR ELIZABETH, NJ-NY (1981) AND AERIAL PHOTO NO. 6-14 DATED MARCH 28, 1981 SUPPLIED BY KEYSTONE AERIAL SURVEYS OF PHILADELPHIA, PA.
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
4670-03
JUNE 1985
FIGURE 3
SAMPLING LOCATIONS
AND ANALYTICAL RESULTS
SITE:
PRENTISS DRUG & CHEMICAL CO., INC.
E.C. JORDAN CO.
10
50
100 FEET



LEGEND

- TOTAL VOCs > 1000 ppm
- 100 ppm < TOTAL VOCs < 1000 ppm

TRC
TRC Environmental Corporation

5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

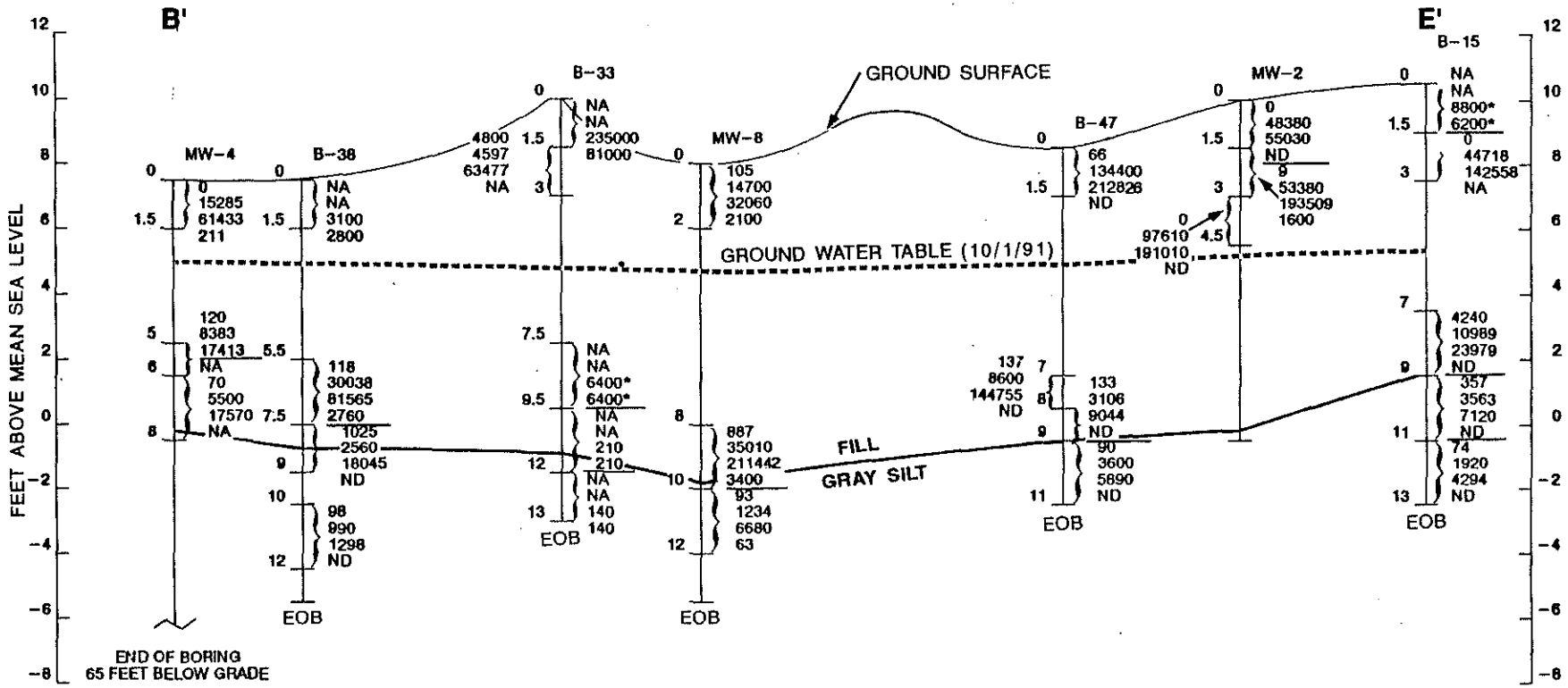
ALBERT STEEL DRUM/PRENTISS
DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 3-5.

SUBSURFACE SOIL SAMPLE LOCATIONS
VOCs) 100 ppm

Figure B-36



NOTE: ALL SAMPLE CONCENTRATIONS ARE IN μg/kg(ppb)

LEGEND

105	TOTAL VOLATILE ORGANICS (W/O TICS)
14700	TOTAL SEMIVOLATILE ORGANICS (W/O TICS)
32060	TOTAL ORGANICS (WITH TICS)
2100	TOTAL POLYCHLORINATED BIPHENYLS (PCBS)
ND	NOT DETECTED
NA	SAMPLE NOT ANALYZED FOR THIS PARAMETER
7 I 9	7 TO 9 FEET BELOW GRADE
*	DUPLICATE SAMPLE TAKEN

0 50FT
HORIZONTAL SCALE

VERTICAL EXAGGERATION = 13.9x

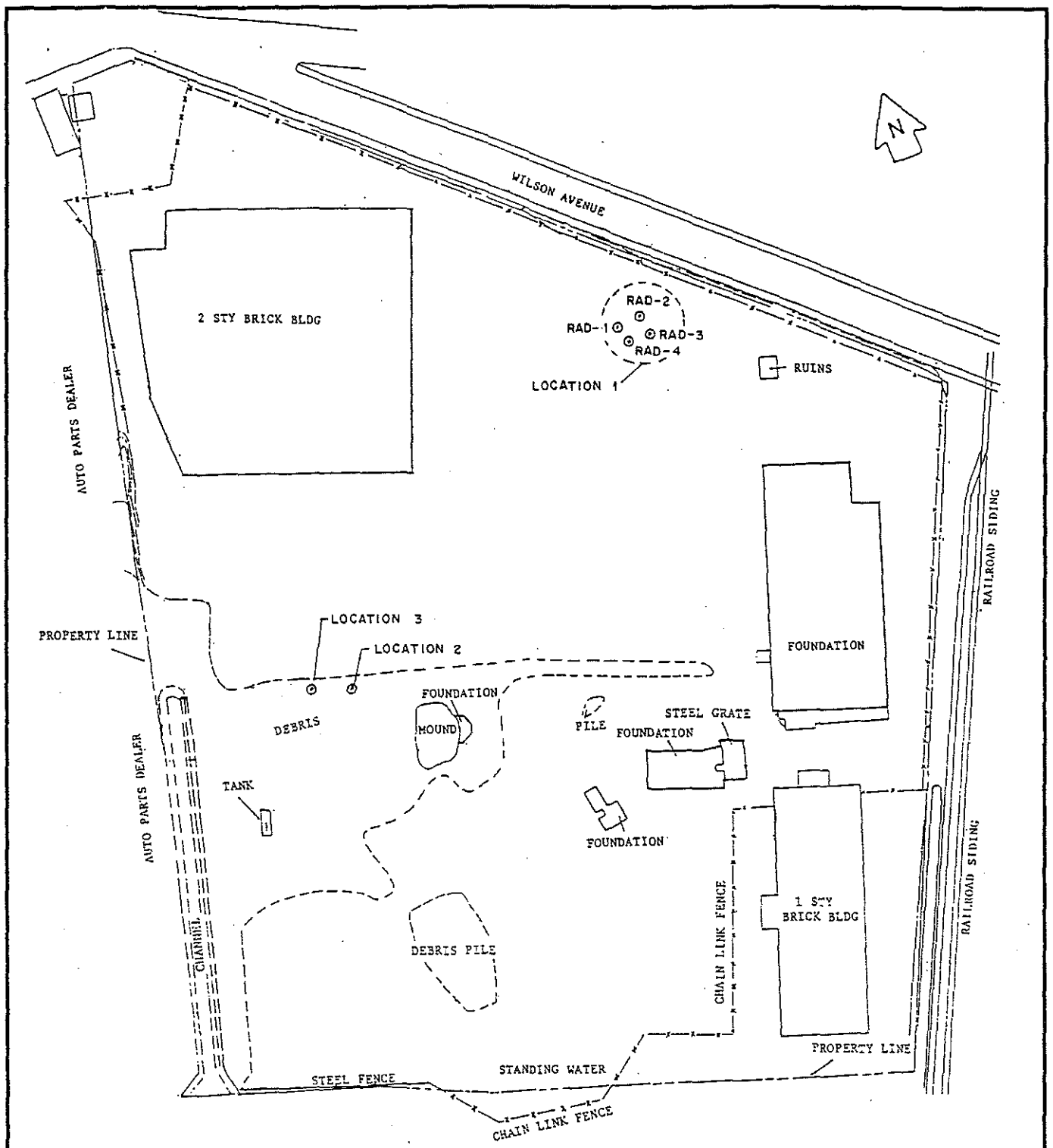
TRC
TRC Environmental Corporation

5 WATERSIDE CROSSING
WINDSOR, CT 06095
(203) 289-8631

NJDEPE

ALBERT STEEL DRUM/PRENTISS
DRUG AND CHEMICAL

FIGURE 3-2.
SUBSURFACE SOIL CONTAMINATION
CROSS SECTION LINE B'-E'



LEGEND

⊙ RADIATION READING LOCATIONS

0 100
SCALE, ft

TRC

TRC Environmental Corporation

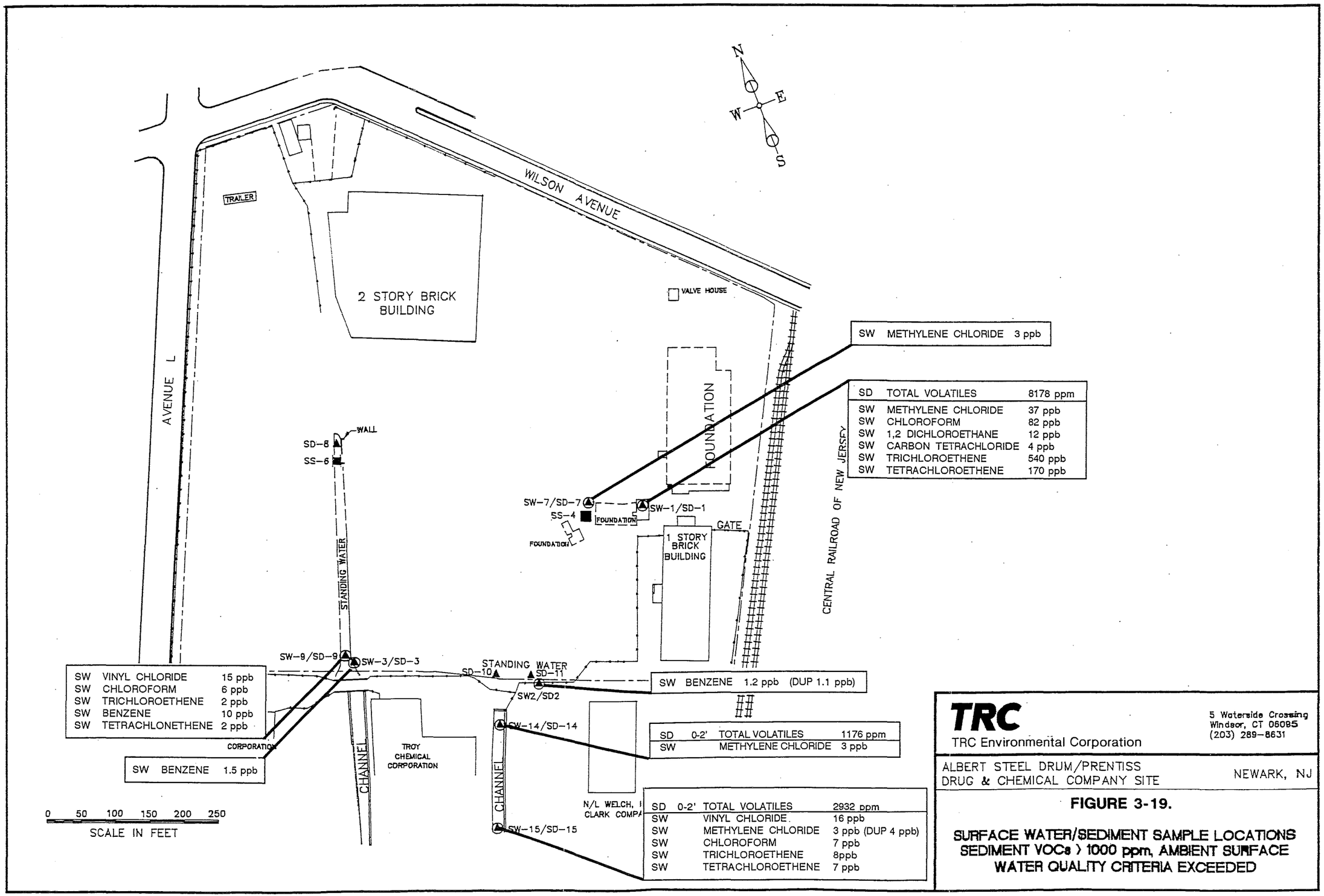
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

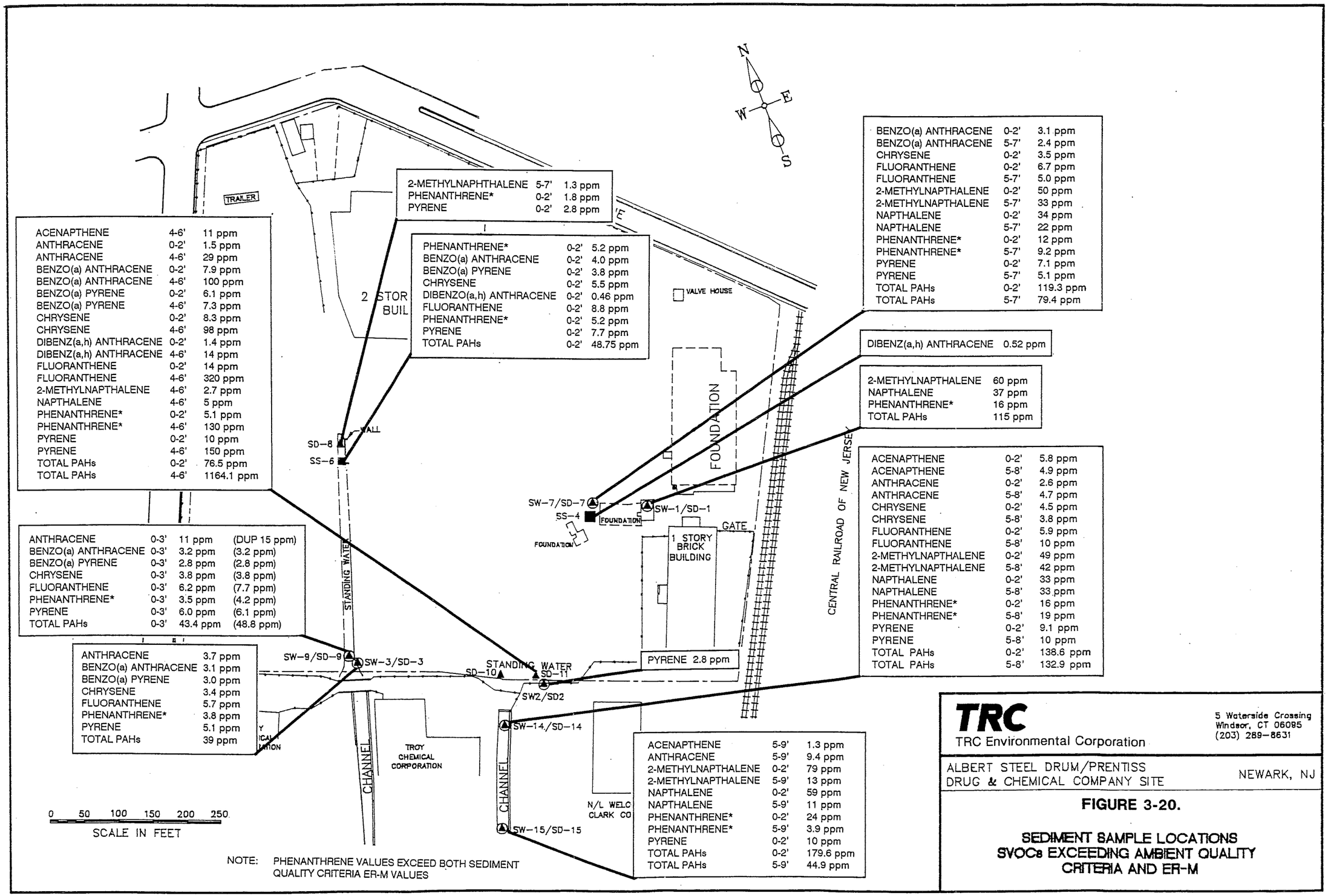
ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 2-4.

APPROXIMATE LOCATIONS OF ELEVATED RADIATION READINGS


N
E
W
S
WILSON AVENUE
TRAILER
2 STORY BRICK BUILDING
VALVE HOUSE
AVENUE L
FOUNDATION
SW METHYLENE CHLORIDE 3 ppb
SD TOTAL VOLATILES 8178 ppm
SW METHYLENE CHLORIDE 37 ppb
SW CHLOROFORM 82 ppb
SW 1,2 DICHLOROETHANE 12 ppb
SW CARBON TETRACHLORIDE 4 ppb
SW TRICHLOROETHENE 540 ppb
SW TETRACHLOROETHENE 170 ppb
WALL
SD-8
SS-6
SW-7/SD-7
SS-4
FOUNDATION
SW-1/SD-1
FOUNDATION
GATE
1 STORY BRICK BUILDING
CENTRAL RAILROAD OF NEW JERSEY
STANDING WATER
SW-9/SD-9
SW-3/SD-3
STANDING WATER
SD-10
SD-11
SW2/SD2
SW BENZENE 1.2 ppb (DUP 1.1 ppb)
SW VINYL CHLORIDE 15 ppb
SW CHLOROFORM 6 ppb
SW TRICHLOROETHENE 2 ppb
SW BENZENE 10 ppb
SW TETRACHLONETHENE 2 ppb
CORPORATION
SW BENZENE 1.5 ppb
CHANNEL
TROY CHEMICAL CORPORATION
SW-14/SD-14
SD 0-2' TOTAL VOLATILES 1176 ppm
SW METHYLENE CHLORIDE 3 ppb
CHANNEL
N/L WELCH, CLARK COMPA
SW-15/SD-15
SD 0-2' TOTAL VOLATILES 2932 ppm
SW VINYL CHLORIDE 16 ppb
SW METHYLENE CHLORIDE 3 ppb (DUP 4 ppb)
SW CHLOROFORM 7 ppb
SW TRICHLOROETHENE 8ppb
SW TETRACHLOROETHENE 7 ppb
0 50 100 150 200 250
SCALE IN FEET
TRC
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631
ALBERT STEEL DRUM/PRENTISS
DRUG & CHEMICAL COMPANY SITE
NEWARK, NJ
FIGURE 3-19.
SURFACE WATER/SEDIMENT SAMPLE LOCATIONS
SEDIMENT VOCs > 1000 ppm, AMBIENT SURFACE
WATER QUALITY CRITERIA EXCEEDED



ACENAPTHENE	4-6'	11 ppm
ANTHRACENE	0-2'	1.5 ppm
ANTHRACENE	4-6'	29 ppm
BENZO(a) ANTHRACENE	0-2'	7.9 ppm
BENZO(a) ANTHRACENE	4-6'	100 ppm
BENZO(a) PYRENE	0-2'	6.1 ppm
BENZO(a) PYRENE	4-6'	7.3 ppm
CHRYSENE	0-2'	8.3 ppm
CHRYSENE	4-6'	98 ppm
DIBENZ(a,h) ANTHRACENE	0-2'	1.4 ppm
DIBENZ(a,h) ANTHRACENE	4-6'	14 ppm
FLUORANTHENE	0-2'	14 ppm
FLUORANTHENE	4-6'	320 ppm
2-METHYLNAPTHALENE	4-6'	2.7 ppm
NAPTHALENE	4-6'	5 ppm
PHENANTHRENE*	0-2'	5.1 ppm
PHENANTHRENE*	4-6'	130 ppm
PYRENE	0-2'	10 ppm
PYRENE	4-6'	150 ppm
TOTAL PAHs	0-2'	76.5 ppm
TOTAL PAHs	4-6'	1164.1 ppm

ANTHRACENE	0-3'	11 ppm	(DUP 15 ppm)
BENZO(a) ANTHRACENE	0-3'	3.2 ppm	(3.2 ppm)
BENZO(a) PYRENE	0-3'	2.8 ppm	(2.8 ppm)
CHRYSENE	0-3'	3.8 ppm	(3.8 ppm)
FLUORANTHENE	0-3'	6.2 ppm	(7.7 ppm)
PHENANTHRENE*	0-3'	3.5 ppm	(4.2 ppm)
PYRENE	0-3'	6.0 ppm	(6.1 ppm)
TOTAL PAHs	0-3'	43.4 ppm	(48.8 ppm)

ANTHRACENE	3.7 ppm
BENZO(a) ANTHRACENE	3.1 ppm
BENZO(a) PYRENE	3.0 ppm
CHRYSENE	3.4 ppm
FLUORANTHENE	5.7 ppm
PHENANTHRENE*	3.8 ppm
PYRENE	5.1 ppm
TOTAL PAHs	39 ppm

2-METHYLNAPHTHALENE	5-7'	1.3 ppm
PHENANTHRENE*	0-2'	1.8 ppm
PYRENE	0-2'	2.8 ppm

PHENANTHRENE*	0-2'	5.2 ppm
BENZO(a) ANTHRACENE	0-2'	4.0 ppm
BENZO(a) PYRENE	0-2'	3.8 ppm
CHRYSENE	0-2'	5.5 ppm
DIBENZO(a,h) ANTHRACENE	0-2'	0.46 ppm
FLUORANTHENE	0-2'	8.8 ppm
PHENANTHRENE*	0-2'	5.2 ppm
PYRENE	0-2'	7.7 ppm
TOTAL PAHs	0-2'	48.75 ppm

BENZO(a) ANTHRACENE	0-2'	3.1 ppm
BENZO(a) ANTHRACENE	5-7'	2.4 ppm
CHRYSENE	0-2'	3.5 ppm
FLUORANTHENE	0-2'	6.7 ppm
FLUORANTHENE	5-7'	5.0 ppm
2-METHYLNAPTHALENE	0-2'	50 ppm
2-METHYLNAPTHALENE	5-7'	33 ppm
NAPTHALENE	0-2'	34 ppm
NAPTHALENE	5-7'	22 ppm
PHENANTHRENE*	0-2'	12 ppm
PHENANTHRENE*	5-7'	9.2 ppm
PYRENE	0-2'	7.1 ppm
PYRENE	5-7'	5.1 ppm
TOTAL PAHs	0-2'	119.3 ppm
TOTAL PAHs	5-7'	79.4 ppm

DIBENZ(a,h) ANTHRACENE	0.52 ppm

2-METHYLNAPTHALENE	60 ppm
NAPTHALENE	37 ppm
PHENANTHRENE*	16 ppm
TOTAL PAHs	115 ppm

ACENAPTHENE	0-2'	5.8 ppm
ACENAPTHENE	5-8'	4.9 ppm
ANTHRACENE	0-2'	2.6 ppm
ANTHRACENE	5-8'	4.7 ppm
CHRYSENE	0-2'	4.5 ppm
CHRYSENE	5-8'	3.8 ppm
FLUORANTHENE	0-2'	5.9 ppm
FLUORANTHENE	5-8'	10 ppm
2-METHYLNAPTHALENE	0-2'	49 ppm
2-METHYLNAPTHALENE	5-8'	42 ppm
NAPTHALENE	0-2'	33 ppm
NAPTHALENE	5-8'	33 ppm
PHENANTHRENE*	0-2'	16 ppm
PHENANTHRENE*	5-8'	19 ppm
PYRENE	0-2'	9.1 ppm
PYRENE	5-8'	10 ppm
TOTAL PAHs	0-2'	138.6 ppm
TOTAL PAHs	5-8'	132.9 ppm

ACENAPTHENE	5-9'	1.3 ppm
ANTHRACENE	5-9'	9.4 ppm
2-METHYLNAPTHALENE	0-2'	79 ppm
2-METHYLNAPTHALENE	5-9'	13 ppm
NAPTHALENE	0-2'	59 ppm
NAPTHALENE	5-9'	11 ppm
PHENANTHRENE*	0-2'	24 ppm
PHENANTHRENE*	5-9'	3.9 ppm
PYRENE	0-2'	10 ppm
TOTAL PAHs	0-2'	179.6 ppm
TOTAL PAHs	5-9'	44.9 ppm

NOTE: PHENANTHRENE VALUES EXCEED BOTH SEDIMENT QUALITY CRITERIA ER-M VALUES

TRC

TRC Environmental Corporation

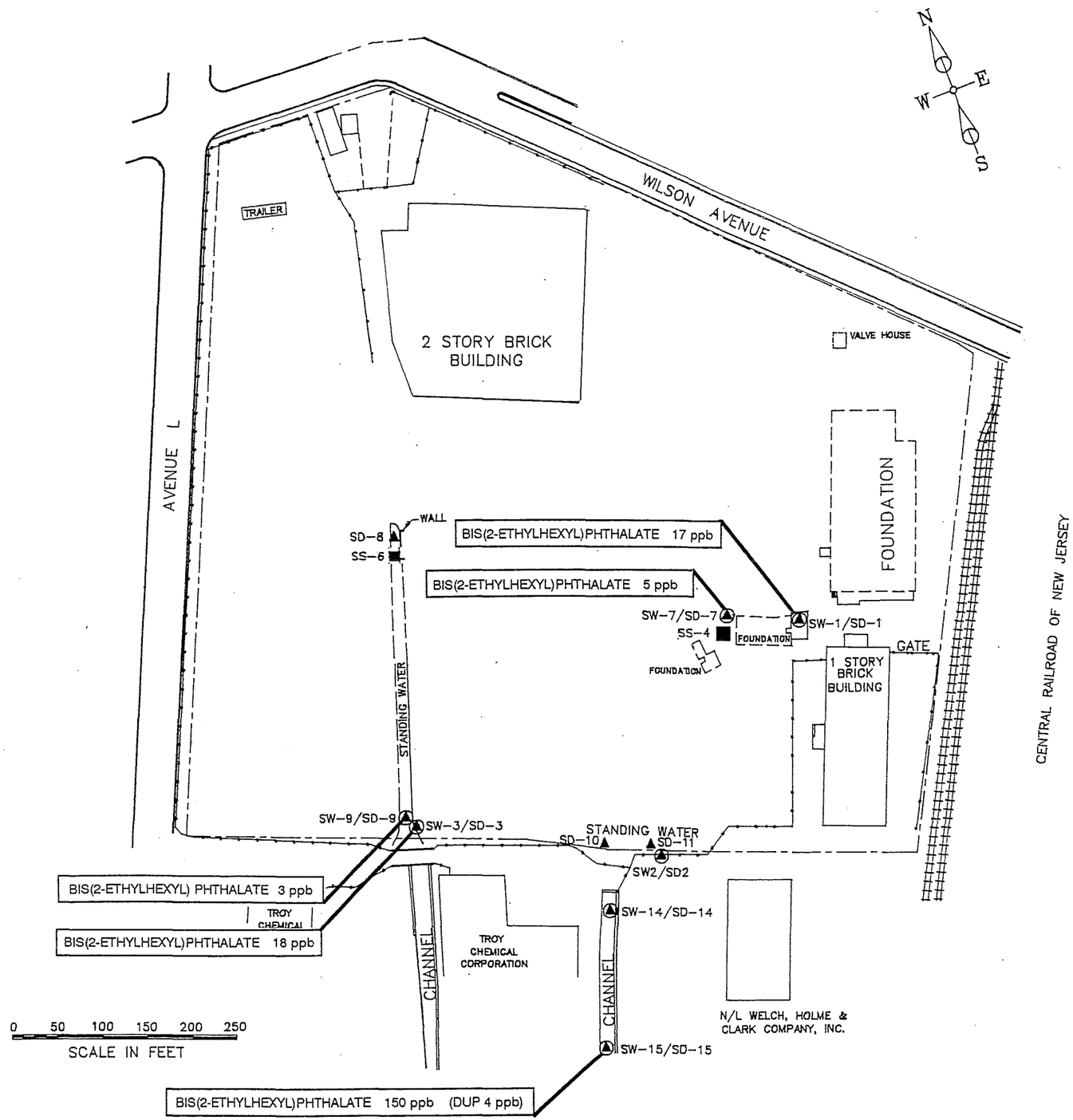
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 3-20.

SEDIMENT SAMPLE LOCATIONS SVOCs EXCEEDING AMBIENT QUALITY CRITERIA AND ER-M



TRC

TRC Environmental Corporation

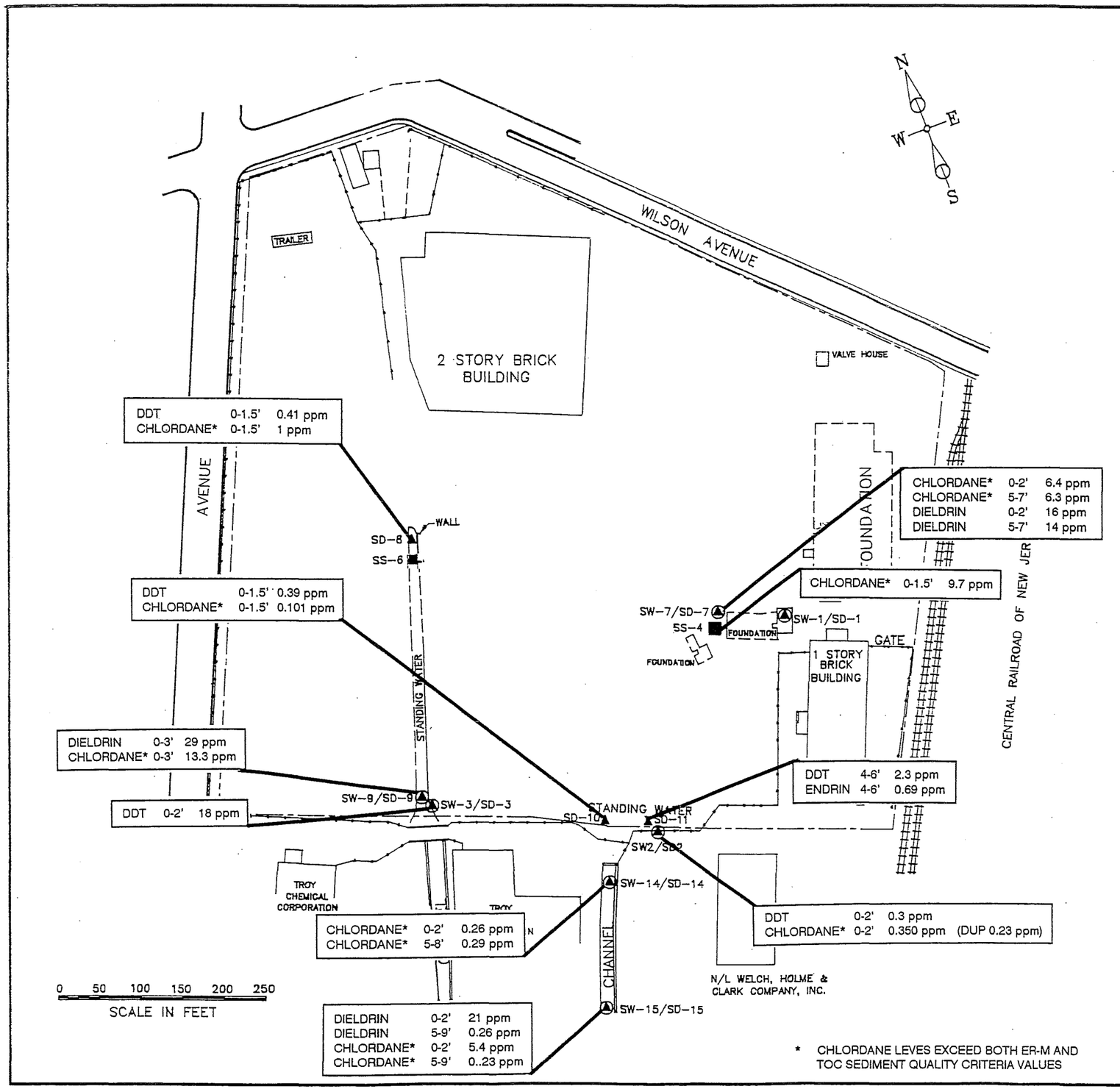
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 3-21.

SURFACE WATER SAMPLE LOCATIONS SVOCs EXCEEDING AMBIENT WATER QUALITY CRITERIA



TRC

TRC Environmental Corporation

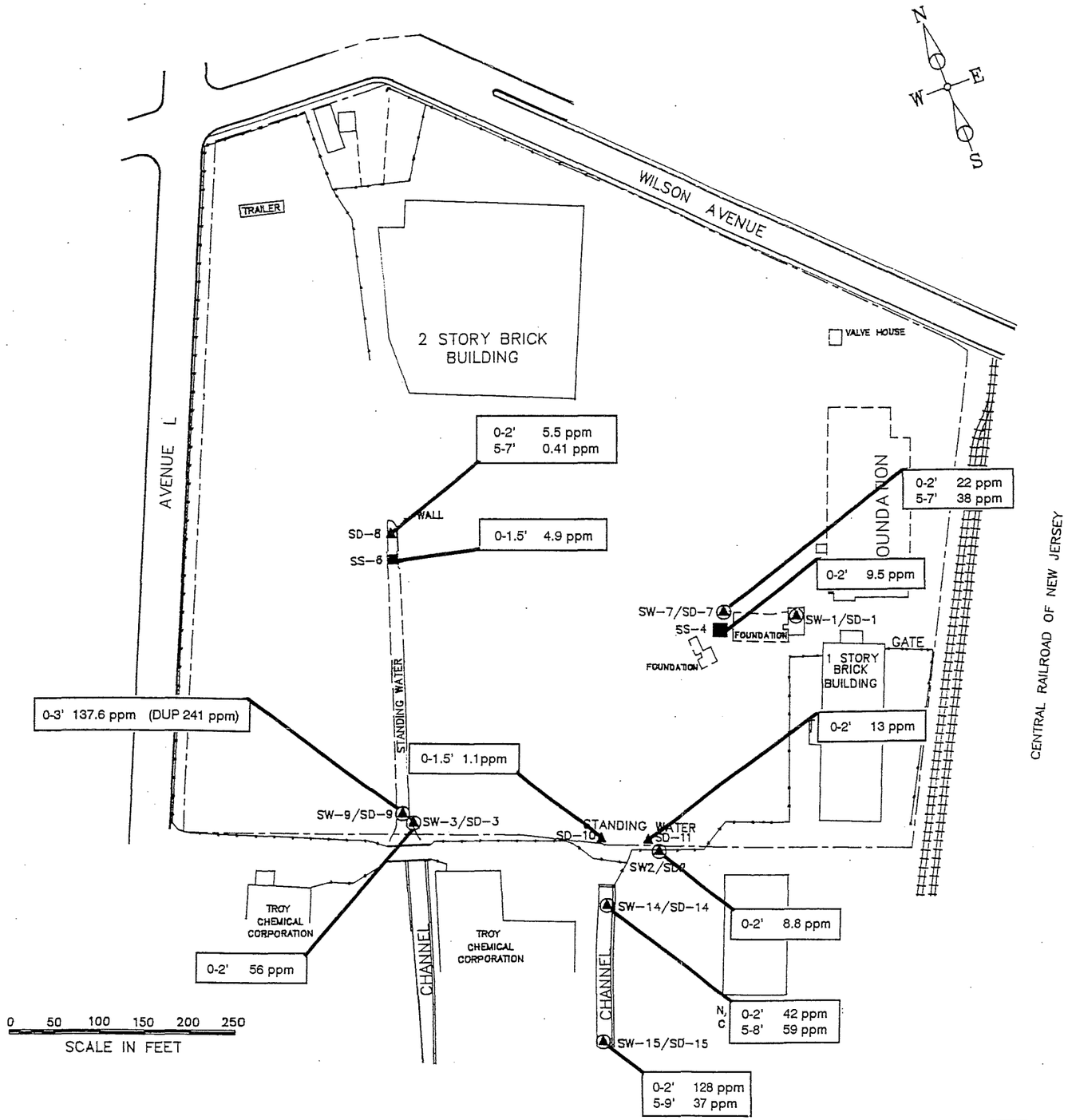
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 3-22.

SEDIMENT SAMPLE LOCATIONS PESTICIDES EXCEEDING AMBIENT QUALITY CRITERIA AND ER-M VALUES



TRC
TRC Environmental Corporation

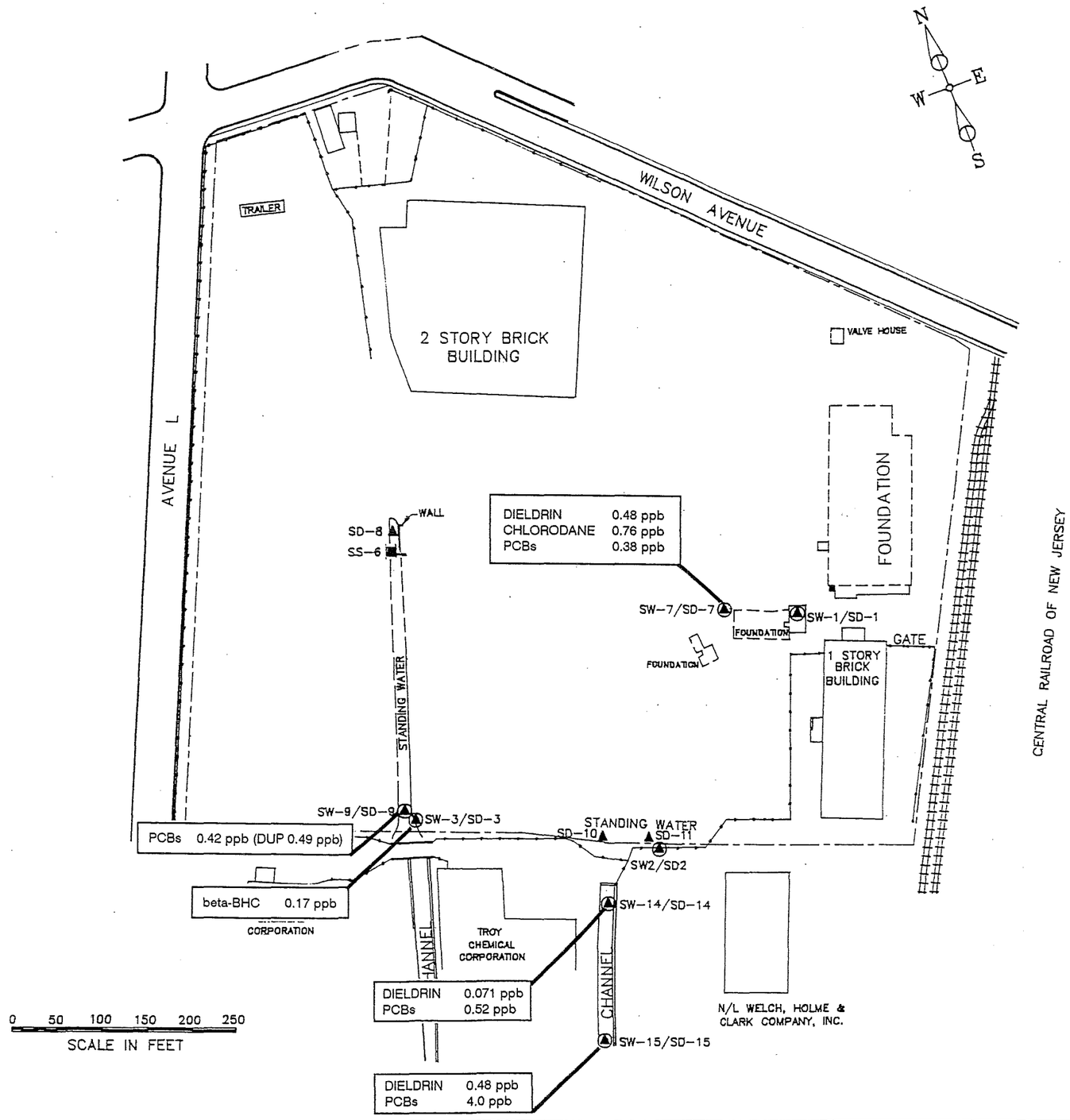
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 3-23.

SEDIMENT SAMPLE LOCATIONS PCBs EXCEEDING AMBIENT QUALITY CRITERIA



TRC
TRC Environmental Corporation

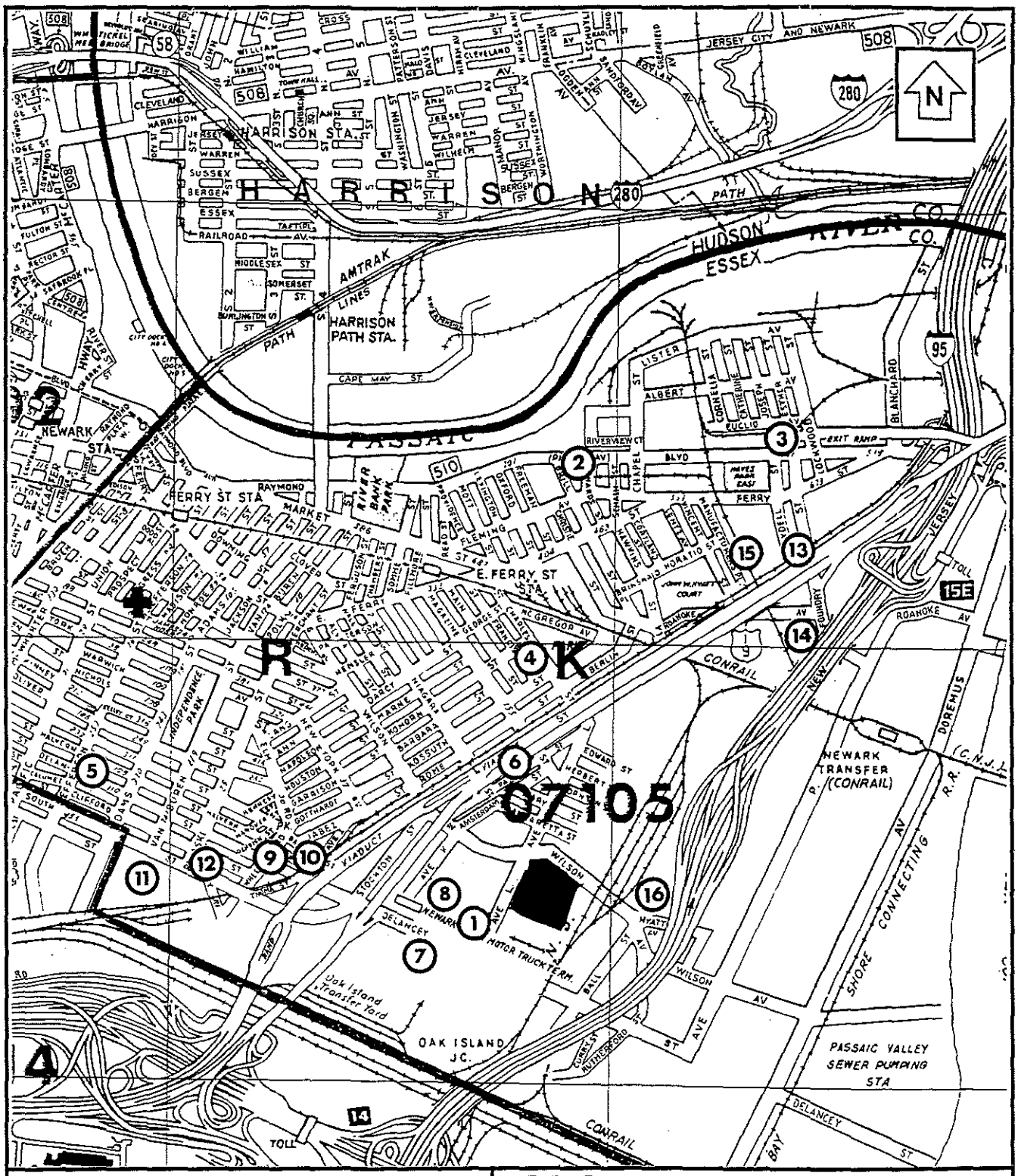
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

ALBERT STEEL DRUM/PRENTISS DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 3-24.

SURFACE WATER SAMPLE LOCATIONS PESTICIDES/PCBs EXCEEDING SURFACE WATER QUALITY CRITERIA



APPROXIMATE SCALES

0 1000 2000 3000 4000 5000 FEET

0 200 400 600 800 1000 METERS

FROM HAGSTROM MAP COMPANY, INC., 1991

TRC

TRC Environmental Corporation

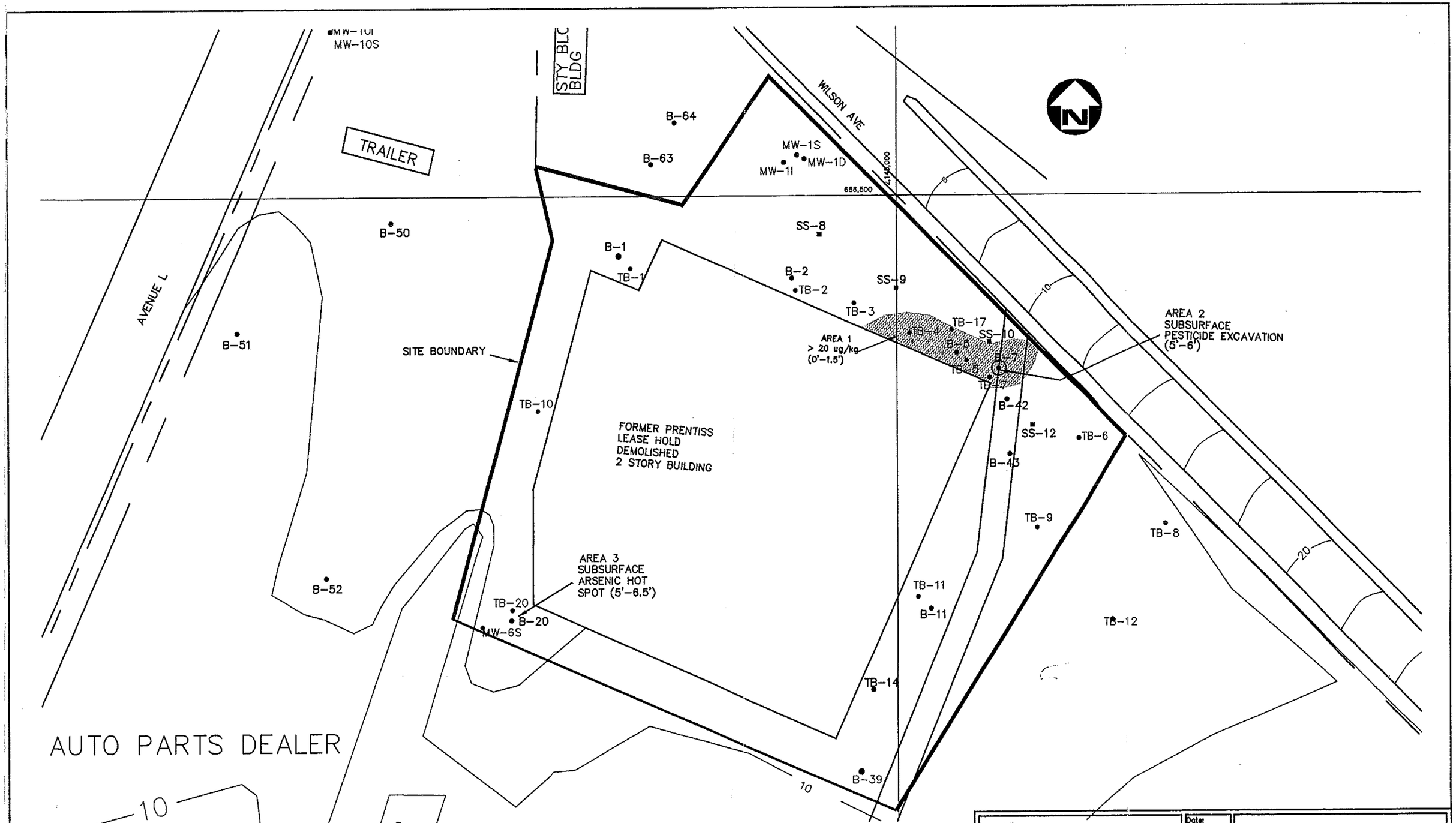
5 Waterside Crossing
Windsor, CT 06095
(203) 289-8631

ALBERT STEEL DRUM/PRENTISS
DRUG & CHEMICAL COMPANY SITE

NEWARK, NJ

FIGURE 1-5.

WELL LOCATION MAP



SOURCE: ALBERT STEEL DRUM/PRENTISS DRUG HOUSING
AUTHORITY OF NEWARK 10/12/95 DRAWING NO. 403
SHEET1, JAMES N. STEWART LIC # 26108

NO.	REVISION	DATE	Dr/Ck

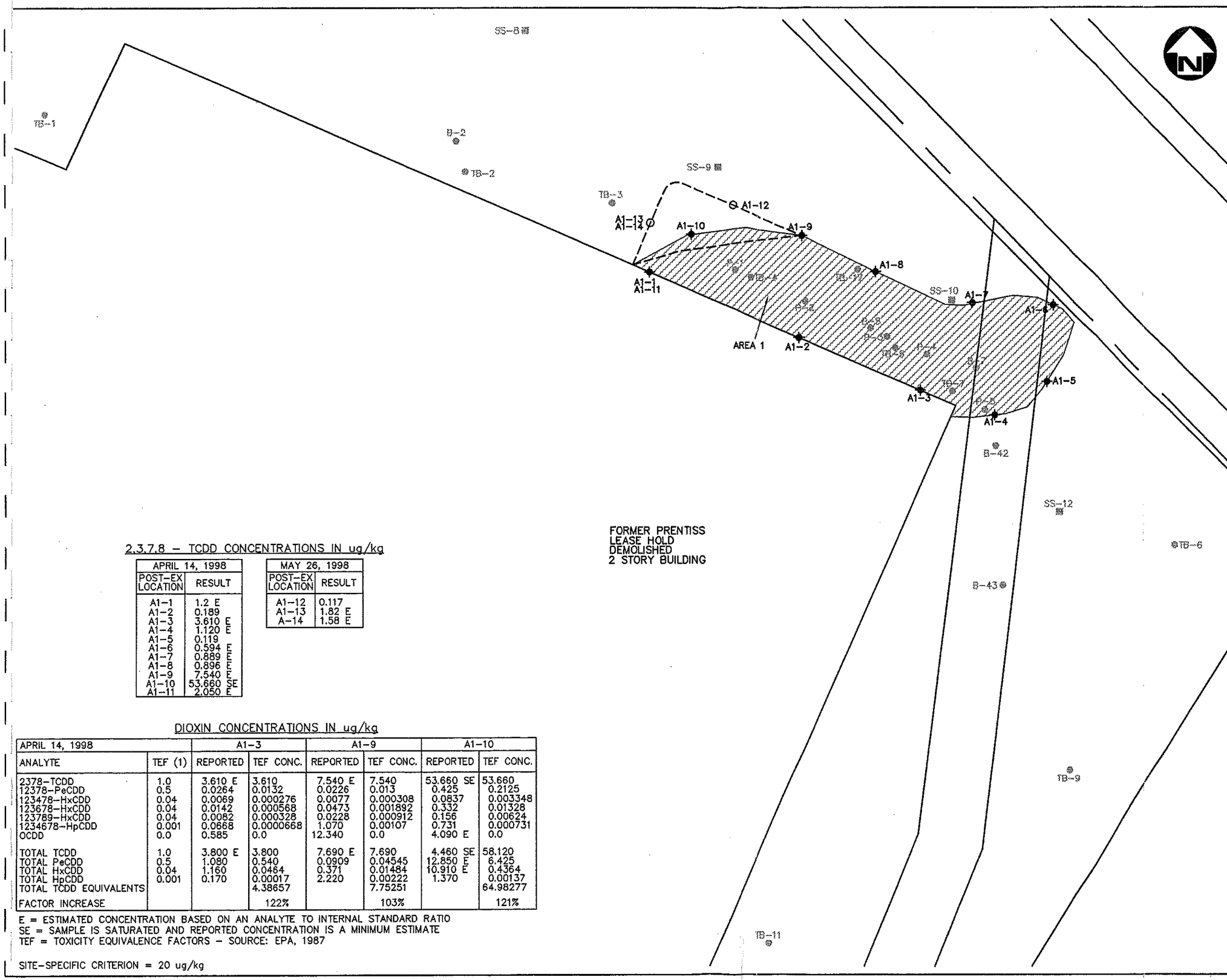
SADAT ASSOCIATES, INC.
Environmental Scientists & Engineers
116 Village Blvd., Princeton, N.J. 08540
(609) 987-2500

Date: 11/25/97
Scale: 1"=50'
Design by: JE
Drawn by: KPK
Checked by:
Autocad No. N-MAP3
H:\95049\REV

ALBERT STEEL DRUM SITE
NEWARK, NEW JERSEY

AREAS OF CONCERN
FORMER PRENTISS LEASEHOLD

File: 95049-001-03
DWG. NO. 3/5



2,3,7,8 – TCDD CONCENTRATIONS IN ug/kg

APRIL 14, 1998	
POST-EX LOCATION	RESULT
A1-1	1.2 E
A1-2	0.189
A1-3	3.610 E
A1-4	1.120 E
A1-5	0.119
A1-6	0.594 E
A1-7	0.889 E
A1-8	0.896 E
A1-9	7.540 E
A1-10	53.660 SE
A1-11	2.050 E

MAY 26, 1998	
POST-EX LOCATION	RESULT
A1-12	0.117
A1-13	1.82 E
A-14	1.58 E

DIOXIN CONCENTRATIONS IN ug/kg

APRIL 14, 1998		A1-3		A1-9		A1-10	
ANALYTE	TEF (1)	REPORTED	TEF CONC.	REPORTED	TEF CONC.	REPORTED	TEF CONC.
2378-TCDD	1.0	3.610 E	3.610	7.540 E	7.540	53.660 SE	53.660
12378-PeCDD	0.5	0.0264	0.0132	0.0226	0.013	0.425	0.2125
123478-HxCDD	0.04	0.0069	0.000276	0.0077	0.000308	0.0837	0.003348
123678-HxCDD	0.04	0.0142	0.000568	0.0473	0.001892	0.332	0.01328
123789-HxCDD	0.04	0.0082	0.000328	0.0228	0.000912	0.156	0.00624
1234678-HpCDD	0.001	0.0668	0.0000668	1.070	0.00107	0.731	0.000731
OCDD	0.0	0.585	0.0	12.340	0.0	4.090 E	0.0
TOTAL TCDD	1.0	3.800 E	3.800	7.690 E	7.690	4.460 SE	58.120
TOTAL PeCDD	0.5	1.080	0.540	0.0909	0.04545	12.850 E	6.425
TOTAL HxCDD	0.04	1.160	0.0464	0.371	0.01484	10.910 E	0.4364
TOTAL HpCDD	0.001	0.170	0.00017	2.220	0.00222	1.370	0.00137
TOTAL TCDD EQUIVALENTS			4.38657		7.75251		64.98277
FACTOR INCREASE			122%		103%		121%

E = ESTIMATED CONCENTRATION BASED ON AN ANALYTE TO INTERNAL STANDARD RATIO
SE = SAMPLE IS SATURATED AND REPORTED CONCENTRATION IS A MINIMUM ESTIMATE
TEF = TOXICITY EQUIVALENCE FACTORS – SOURCE: EPA, 1987

SITE-SPECIFIC CRITERION = 20 ug/kg

GENERAL NOTES

SOURCE:
ALBERT STEEL DRUM/PRENTISS DRUG
HOUSING AUTHORITY OF NEWARK 10/12/95
DRAWING No.403 SHEET 1, JAMES N. STEWART
LIC. No.26108. ISOCONCENTRATION LINES
BASED ON TRC'S PHASE 1 & PHASE 2 DATA
FOR THE ALBERT STEEL DRUM SITE.

1. SAMPLES ANALYZED FOR DIOXIN ONLY
2. A1–A11 SAMPLES TAKEN AT A DEPTH OF 1'–6" – 2'–0" BGS
3. A12–A14 SAMPLES TAKEN AT A DEPTH OF 2'–6" – 3'–0" BGS
4. A1–11 IS A DUPLICATE SAMPLE OF A1–1
   A1–13 IS A DUPLICATE SAMPLE OF A1–14

LEGEND

A1–1	POST-EXCAVATION SAMPLE LOCATION – APRIL 13, 1998
	AREA OF EXCAVATION APRIL 13, 1998
A1–12	POST-EXCAVATION SAMPLE LOCATION – MAY 27, 1998
	AREA OF EXCAVATION MAY 27, 1998
TB–3, B–2, B–1, SS–10	FORMER SAMPLE LOCATION

BAR SCALE
20 10 0 20
1 INCH = 20 FT.

REV. NO.	DATE	REMARKS

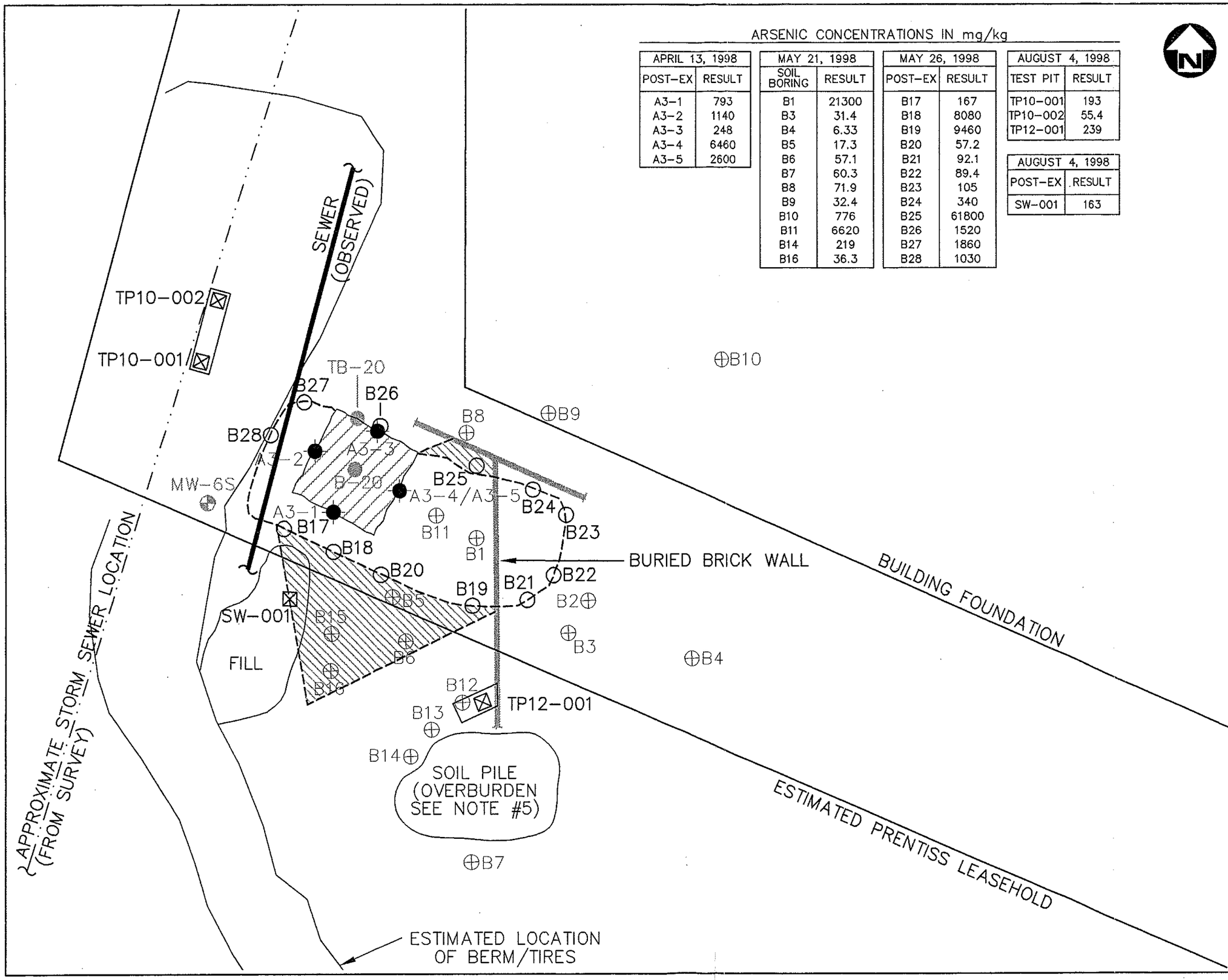
SADAT ASSOCIATES INC.
Engineering & Environmental Science
116 Village Blvd., Princeton, N.J. 08540
(609) 987-2500 FAX (609) 243-0120

OWNER:
ALBERT STEEL DRUM SITE

DRAWING TITLE:
AREA 1
POST-EXCAVATION SAMPLING LOCATIONS
APRIL/MAY 1998

Date: 6/22/98	Drawn by: JAL	Design by: JE
Scale: 1"=20'-0"	Checked by:	Project Mgr: JE
JOB NO: 95049-001-04	SHEET 4	OF 5

Autocad Path H:\95049\BEV\DIOXIN.DWG



ARSENIC CONCENTRATIONS IN mg/kg

APRIL 13, 1998	
POST-EX	RESULT
A3-1	793
A3-2	1140
A3-3	248
A3-4	6460
A3-5	2600

MAY 21, 1998	
SOIL BORING	RESULT
B1	21300
B3	31.4
B4	6.33
B5	17.3
B6	57.1
B7	60.3
B8	71.9
B9	32.4
B10	776
B11	6620
B14	219
B16	36.3

MAY 26, 1998	
POST-EX	RESULT
B17	167
B18	8080
B19	9460
B20	57.2
B21	92.1
B22	89.4
B23	105
B24	340
B25	61800
B26	1520
B27	1860
B28	1030

AUGUST 4, 1998	
TEST PIT	RESULT
TP10-001	193
TP10-002	55.4
TP12-001	239

AUGUST 4, 1998	
POST-EX	RESULT
SW-001	163

GENERAL NOTES

SOURCE:
ALBERT STEEL DRUM/PRENTISS DRUG
HOUSING AUTHORITY OF NEWARK 10/12/95
DRAWING No.403 SHEET 1, JAMES N. STEWART
LIC. No.26108. ISOCONCENTRATION LINES
BASED ON TRC'S PHASE 1 & PHASE 2 DATA
FOR THE ALBERT STEEL DRUM SITE.

1. SAMPLES ANALYZED FOR ARSENIC
2. ALL SAMPLES TAKEN AT A DEPTH OF 6'-0" - 6'-6"
3. A3-5 IS A DUPLICATE SAMPLE OF A3-4
4. NO SAMPLES WERE COLLECTED FROM B2, B12, B13 OR B15. THE BORINGS WERE TERMINATED DUE TO REFUSAL
5. OVERBURDEN FROM 0 TO 5 FEET bgs WAS USED TO BACKFILL EXCAVATION

LEGEND

A3-1	POST-EXCAVATION SAMPLE LOCATION - 4/13/98
B24	POST-EXCAVATION SAMPLE LOCATION - 5/26/98
SW-001	POST-EXCAVATION SAMPLE LOCATION - 8/4/98
TP10-001	SAMPLE LOCATION 8/4/98
B3	SOIL BORING LOCATION 5/21/98
	AREA OF EXCAVATION 4/13/98
	AREA OF EXCAVATION 8/4/98
	SEWER
	AREA OF EXCAVATION 5/26/98
TB-3 B-2 P-1	FORMER SAMPLE LOCATION
MW-6S	FORMER MONITORING WELL LOCATION

BAR SCALE
10 5 0 10
1 INCH = 10 FT.

REV. NO.	DATE	REMARKS

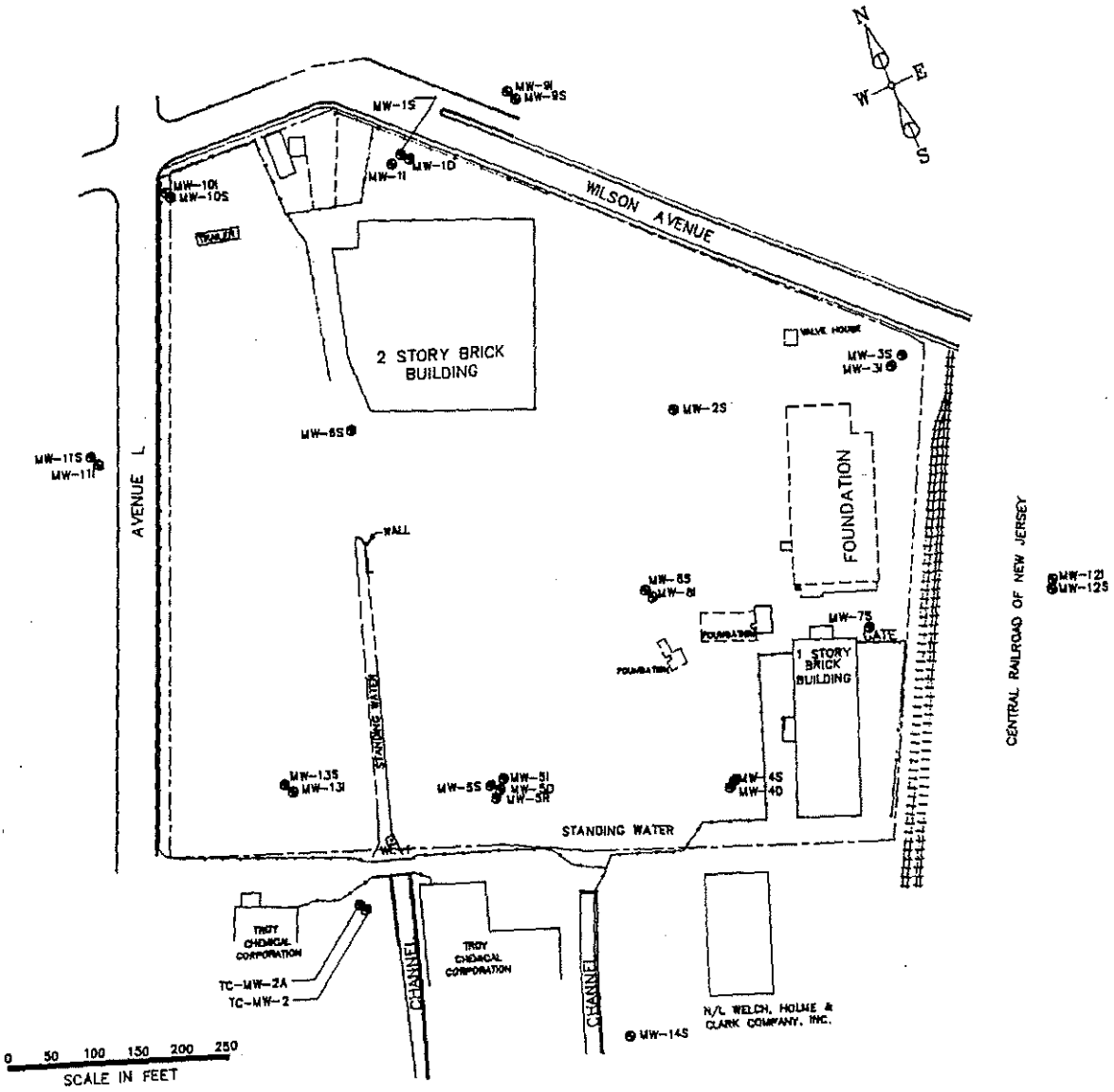
SADAT ASSOCIATES INC.
Engineering & Environmental Science
116 Village Blvd., Princeton, N.J. 08540
(609) 987-2500 FAX (609) 243-0120

OWNER:
ALBERT STEEL DRUM SITE

DRAWING TITLE:
AREA 3 SAMPLING LOCATIONS APRIL/MAY/AUGUST 1998

Date: 8/6/98	Drawn by: JAL	Design by: RS
Scale: 1" = 10'-0"	Checked by:	Project Mgr: JE
JOB NO: 0095049-0104	SHEET 5	OF 5

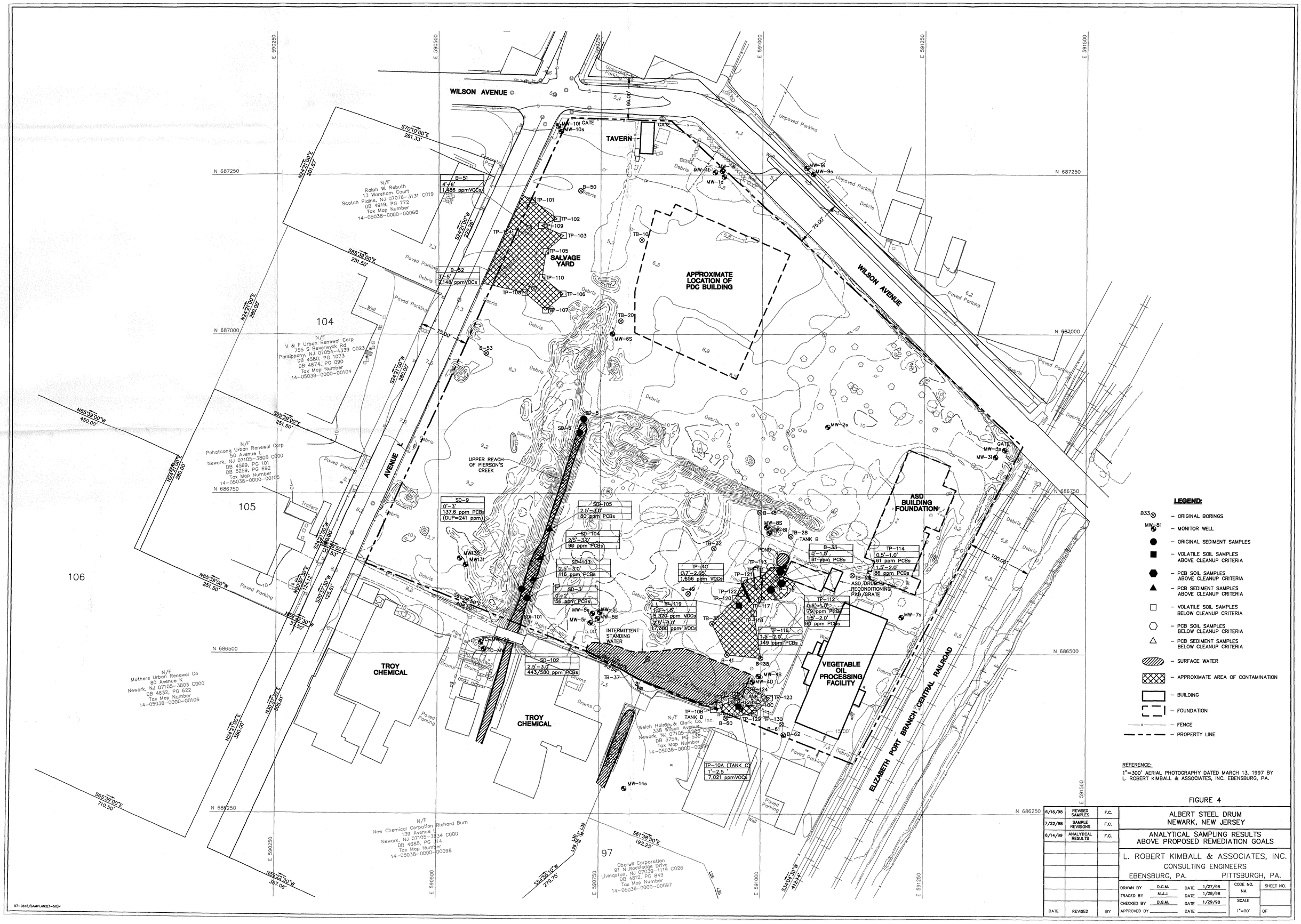
Autocad Path H:\95049\BEV\SOIL8498.DWG

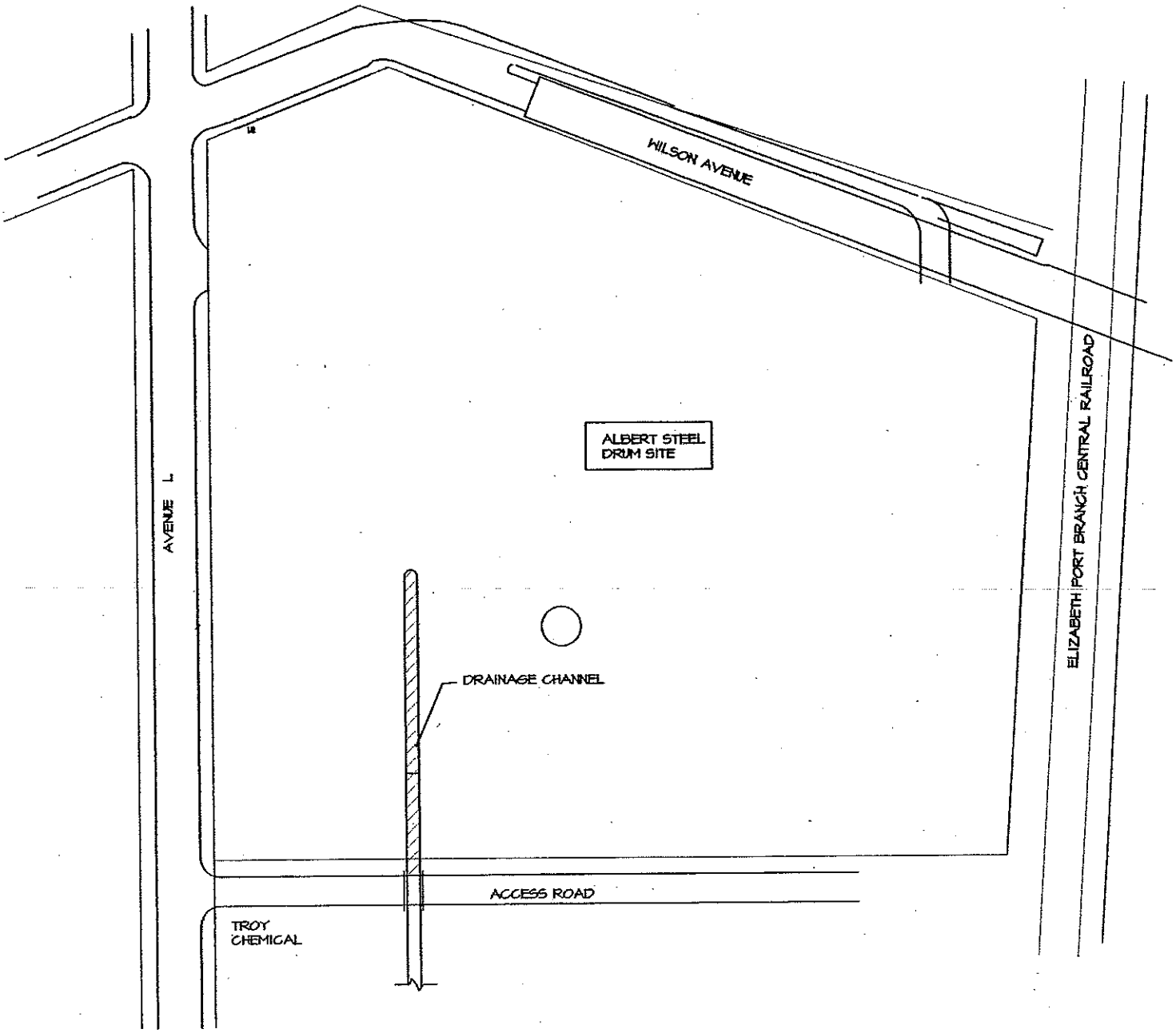


ALBERT STEEL DRUM/PRENTISS DRUG COMPANY SITE
NEWARK, NEW JERSEY

Figure 2. Well Locations

Note: the following monitor wells could not be located: MW-1I, -6S, -9S, -9I, -11S, -11I, -12S, -12I, -13S, -13I and -14S


WILSON AVENUE
TAVERN
GATE
SALVAGE YARD
APPROXIMATE LOCATION OF PDC BUILDING
UPPER REACH OF PIERSON'S CREEK
AVENUE L
TROY CHEMICAL
INTERMITTENT STANDING WATER
ASD BUILDING FOUNDATION
VEGETABLE OIL PROCESSING FACILITY
ELIZABETH PORT BRANCH CENTRAL RAILROAD
POND
TANK B
TANK D
ASD DRUM REGONDITIONING PAD/CRATE
N/F Ralph W. Rebuth 13 Wareham Court Scotch Plains, NJ 07076-3131 C019 DB 4919, PG 772 Tax Map Number 14-05038-0000-00068
N/F V & F Urban Renewal Corp 755 S Beverwyck Rd Parsippany, NJ 07054-4339 C023 DB 4580, PG 1073 DB 4674, PG 090 Tax Map Number 14-05038-0000-00104
N/F Pohatcong Urban Renewal Corp 50 Avenue L Newark, NJ 07105-3805 C000 DB 4569, PG 101 DB 5259, PG 692 Tax Map Number 14-05038-0000-00105
N/F Mothers Urban Renewal Co 80 Avenue K Newark, NJ 07105-3803 C000 DB 4632, PG 622 Tax Map Number 14-05038-0000-00106
N/F New Chemical Corpation 139 Avenue L Newark, NJ 07105-3834 C000 DB 4685, PG 314 Tax Map Number 14-05038-0000-00098
N/F Richard Burn
N/F Welch Holmes & Clark Co. Inc. 338 Wilson Avenue Newark, NJ 07105-4263 C000 DB 3754, PG 536 Tax Map Number 14-05038-0000-00096
N/F Oberwil Corporation 91 N Rockledge Drive Livingston, NJ 07039-1119 C026 DB 4812, PG 849 Tax Map Number 14-05038-0000-00097
LEGEND:
ORIGINAL BORINGS
MONITOR WELL
ORIGINAL SEDIMENT SAMPLES
VOLATILE SOIL SAMPLES ABOVE CLEANUP CRITERIA
PCB SOIL SAMPLES ABOVE CLEANUP CRITERIA
PCB SEDIMENT SAMPLES ABOVE CLEANUP CRITERIA
VOLATILE SOIL SAMPLES BELOW CLEANUP CRITERIA
PCB SOIL SAMPLES BELOW CLEANUP CRITERIA
PCB SEDIMENT SAMPLES BELOW CLEANUP CRITERIA
SURFACE WATER
APPROXIMATE AREA OF CONTAMINATION
BUILDING
FOUNDATION
FENCE
PROPERTY LINE
REFERENCE:
1"=300' AERIAL PHOTOGRAPHY DATED MARCH 13, 1997 BY L. ROBERT KIMBALL & ASSOCIATES, INC. EBENSBURG, PA.
FIGURE 4
ALBERT STEEL DRUM
NEWARK, NEW JERSEY
ANALYTICAL SAMPLING RESULTS ABOVE PROPOSED REMEDIATION GOALS
L. ROBERT KIMBALL & ASSOCIATES, INC.
CONSULTING ENGINEERS
EBENSBURG, PA. PITTSBURGH, PA.
6/16/98 REVISED SAMPLES F.C.
7/22/98 SAMPLE REVISIONS F.C.
6/14/99 ANALYTICAL RESULTS F.C.
DATE REVISED BY
DRAWN BY D.G.M. DATE 1/27/98
TRACED BY M.J.J. DATE 1/28/98
CHECKED BY D.G.M. DATE 1/29/98
APPROVED BY DATE
CODE NO. NA
SHEET NO.
SCALE 1"=50'
OF
97-0618/SAMPLAN2(1=50)N



NJIT
NEW JERSEY INSTITUTE
OF TECHNOLOGY

ALBERT STEEL DRUM SITE , NEWARK, NEW JERSEY.

LOCATION OF DRAINAGE CHANNEL

NOT TO SCALE FIGURE 2 DATE: 1/15/04

Figure B-51

SAMPLE NO. C-1	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-ND**	50 ppm
03.23.04	AS-ND**	
	Hg-ND**	
	Pesticides-ND**	

SAMPLE NO. W-1	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-11.6 ppm	50 ppm
04.12.04	AS-10.1 ppm	
	Hg-126 ppm	
	Pesticides-NA*	

SAMPLE NO. C-2	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-ND**	50 ppm
03.23.04	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. W-2	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-11.5 ppm	50 ppm
04.12.04	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. C-3	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-ND**	50 ppm
03.23.04	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. W-3	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-25.1 ppm	50 ppm
04.12.04	AS-22.2 ppm	
	Hg-15.9 ppm	
	Pesticides-NA*	

SAMPLE NO. C-4	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-1.4 ppm	50 ppm
03.23.04	AS-12 ppm	
	Hg-ND**	
	Pesticides-NA*	

SAMPLE NO. W-4A	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-43.1 ppm	50 ppm
05.04.02	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. C-5	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-0.030 ppm	50 ppm
03.23.04	Metals-NA*	
	Pesticides-ND**	

SAMPLE NO. S-9	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-43 ppm	50 ppm
12.02.03		

SAMPLE NO. W-6	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-33.7 ppm	50 ppm
04.12.04	Metals-NA*	
	Pesticides-NA*	

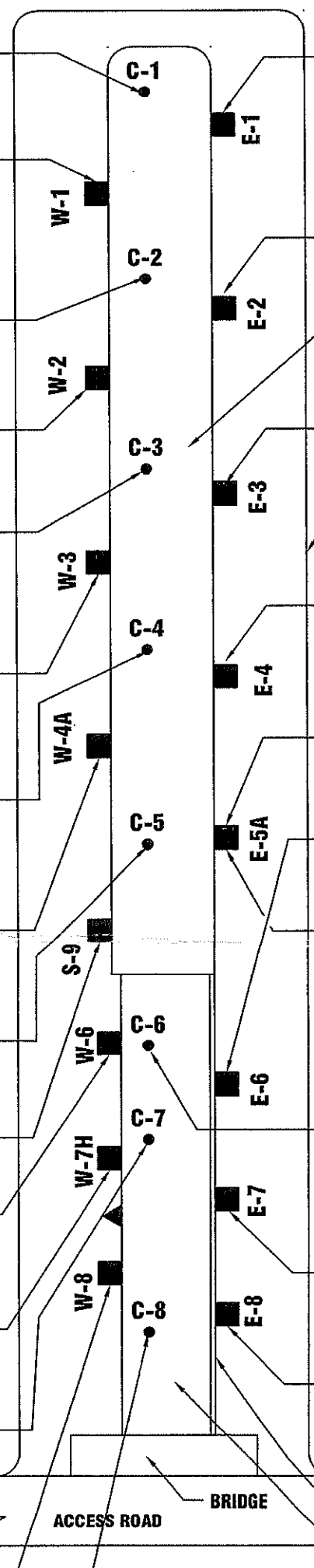
SAMPLE NO. W-7H	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-19.3 ppm	50 ppm
09.12.02	AS-17.8 ppm	
	Hg-1.44 ppm	
	Pesticides-NA*	

SAMPLE NO. C-7	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-ND**	50 ppm
03.23.04	AS-3.4 ppm	
	Hg-ND**	
	Pesticides-NA*	

SAMPLE NO. W-8	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-ND**	50 ppm
12.02.02	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. C-8	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-0.031	50 ppm
03.23.04	Metals-NA*	
	Pesticides-NA*	

Notes: NA*- Not Analyzed
ND**- Not Detected



SAMPLE NO. E-1	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-0.395 ppm	50 ppm
04.12.02	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. E-2	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-4.0 ppm	50 ppm
04.12.02	AS-6.17 ppm	20 ppm
	Hg-20 ppm	
	Pesticides-NA*	

BOX CULVERT
SECTION (4.5' BLS)

SAMPLE NO. E-3	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-12.2 ppm	50 ppm
04.12.02	Metals-NA*	
	Pesticides-NA*	

TOP OF SLOPE
OF EXCAVATION

SAMPLE NO. E-4	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-15.7 ppm	50 ppm
04.12.02	AS-8.44 ppm	
	Hg-112 ppm	
	Pesticides-ND**	

SAMPLE NO. E-5A	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-27.3 ppm	50 ppm
05.04.02	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. E-6	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-8.6 ppm	50 ppm
04.12.02	AS-136 ppm	
	Hg-16.3 ppm	
	Pesticides-NA*	

NOTE: SAMPLE E6-A WAS MISLABELED, IT WAS COLLECTED AT THE E-5 LOCATION AND IS THE "A" SAMPLE FROM THE SECOND ROUND OF EXCAVATION AND POST EXCAVATION VERIFICATION SAMPLING ANALYSIS.

SAMPLE NO. C-6	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Bottom Sample	PCB-ND**	50 ppm
03.23.04	AS-3.0 ppm	
	Hg-ND**	
	Pesticides-NA*	

SAMPLE NO. E-7	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-14.2 ppm	50 ppm
04.12.02	Metals-NA*	
	Pesticides-NA*	

SAMPLE NO. E-8	ANALYTICAL RESULTS	CLEAN UP CRITERIA
Sidewall Sample	PCB-29.3 ppm	50 ppm
04.12.02	AS-74.1 ppm	
	Hg-15.6 ppm	
	Pesticides-NA*	

LOW WALL (3' TALL)
(~ 10' BLS)

CONCRETE LINED
DRAINAGE CHANNEL

REF
N

ALBERT STEEL DRUM SITE
NEWARK, NEW JERSEY
SAMPLE LOCATION OF POST EXCAVATION & SAMPLES FROM DRAINANGE DITCH.

N.T.S. FIGURE 4

NJIT
NEW JERSEY INSTITUTE OF TECHNOLOGY

Figure B-52

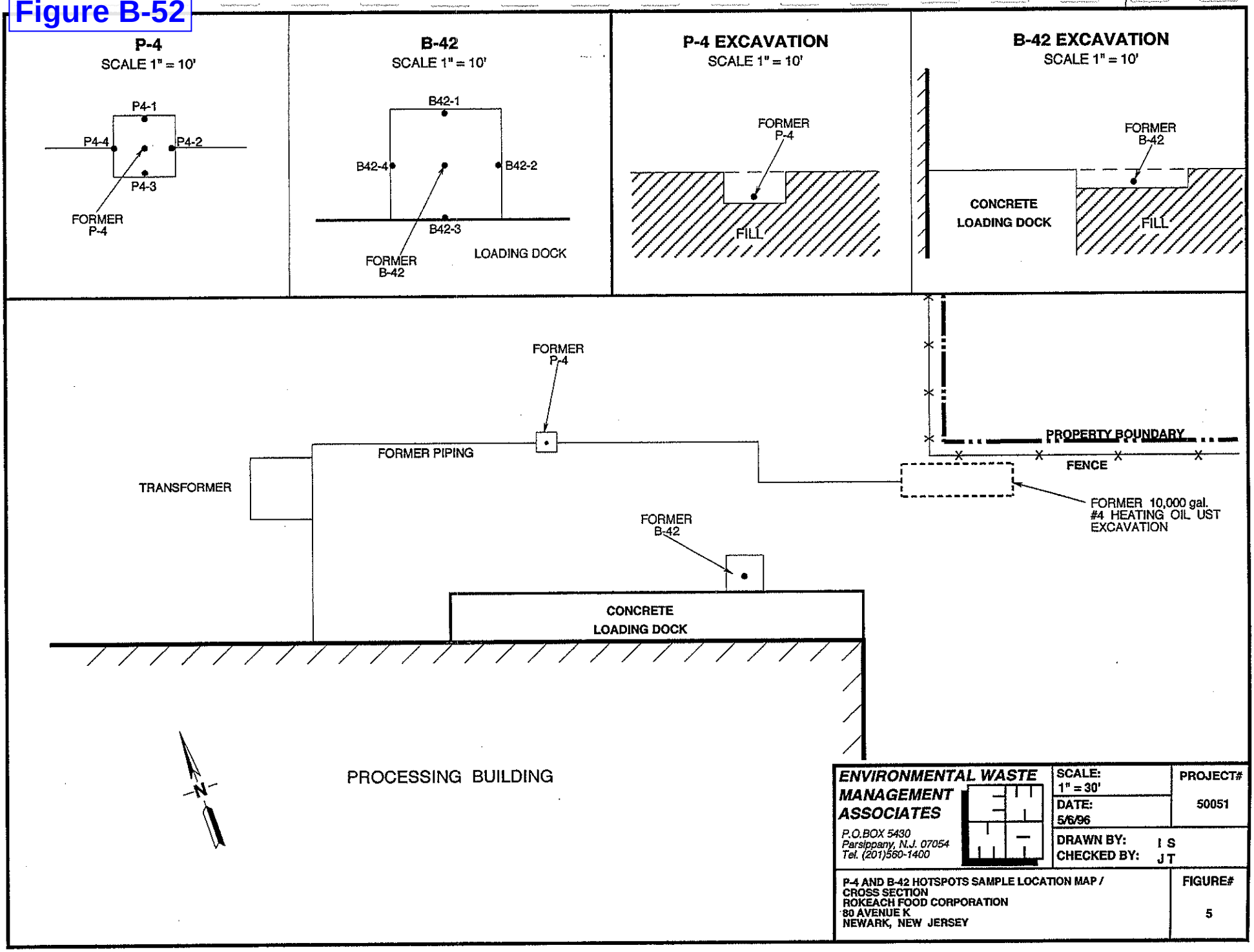
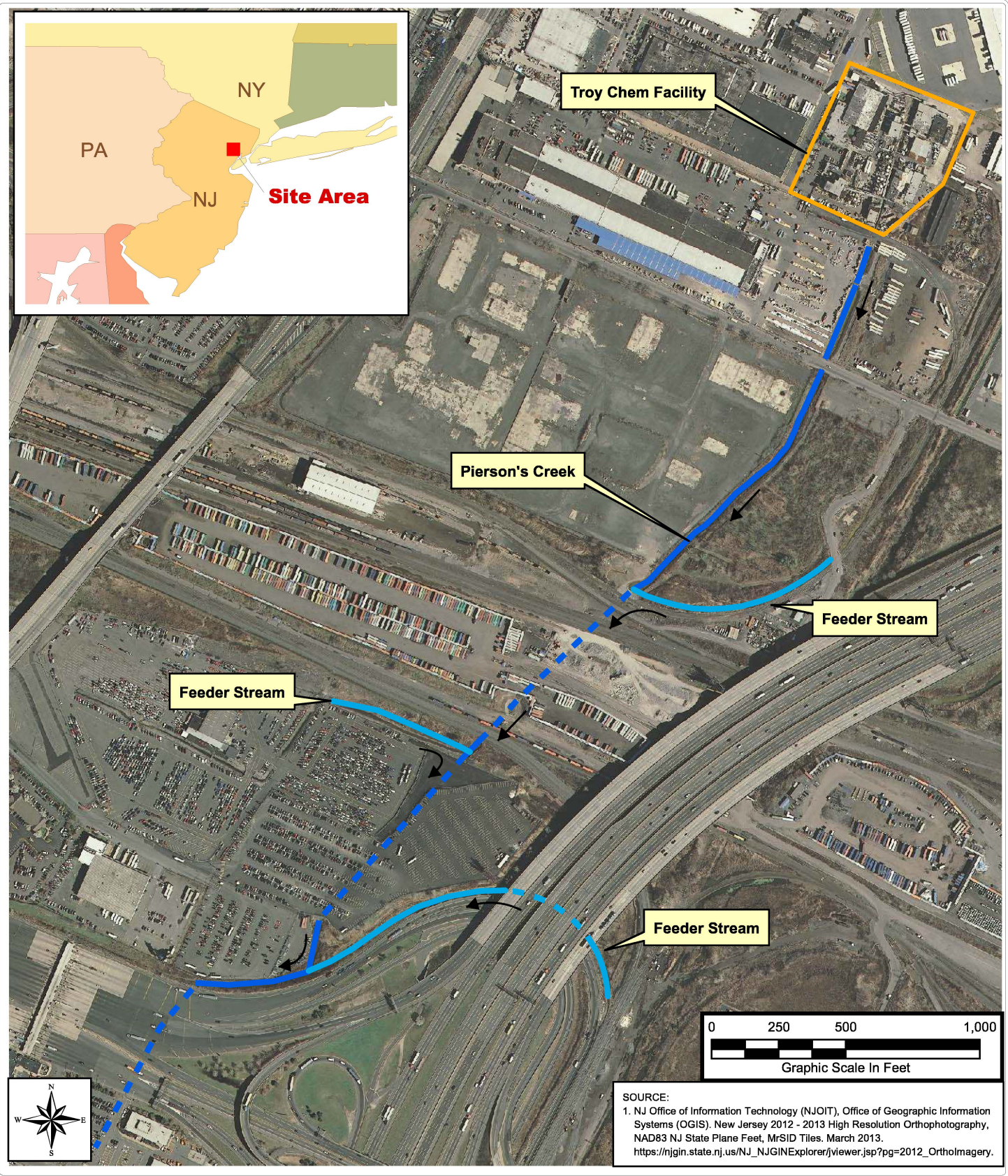

P-4
SCALE 1" = 10'
P4-1
P4-4
P4-2
P4-3
FORMER P-4
B-42
SCALE 1" = 10'
B42-1
B42-4
B42-2
B42-3
FORMER B-42
LOADING DOCK
P-4 EXCAVATION
SCALE 1" = 10'
FORMER P-4
FILL
B-42 EXCAVATION
SCALE 1" = 10'
FORMER B-42
CONCRETE LOADING DOCK
FILL
FORMER P-4
FORMER PIPING
TRANSFORMER
FORMER B-42
CONCRETE LOADING DOCK
PROPERTY BOUNDARY
FENCE
FORMER 10,000 gal. #4 HEATING OIL UST EXCAVATION
PROCESSING BUILDING
N
ENVIRONMENTAL WASTE MANAGEMENT ASSOCIATES
P.O.BOX 5430
Parsippany, N.J. 07054
Tel. (201)560-1400
SCALE: 1" = 30'
DATE: 5/6/96
PROJECT# 50051
DRAWN BY: I S
CHECKED BY: J T
P-4 AND B-42 HOTSPOTS SAMPLE LOCATION MAP / CROSS SECTION
ROKEACH FOOD CORPORATION
80 AVENUE K
NEWARK, NEW JERSEY
FIGURE# 5

Figure B-53



SOURCE:
1. NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS). New Jersey 2012 - 2013 High Resolution Orthophotography, NAD83 NJ State Plane Feet, MrSID Tiles. March 2013. https://njgin.state.nj.us/NJ_NJGINExplorer/jviewer.jsp?pg=2012_OrthoImagery.

LEGEND:

- Pierson's Creek
- Feeder Streams (Unnamed Tributaries)
- Flow Direction
- Facility Boundary

TITLE:

Location Map
Troy Chem Corp Inc
Newark, Essex County, NJ

PROJECT: Troy Chem Corp Inc

CLIENT NAME: EPA

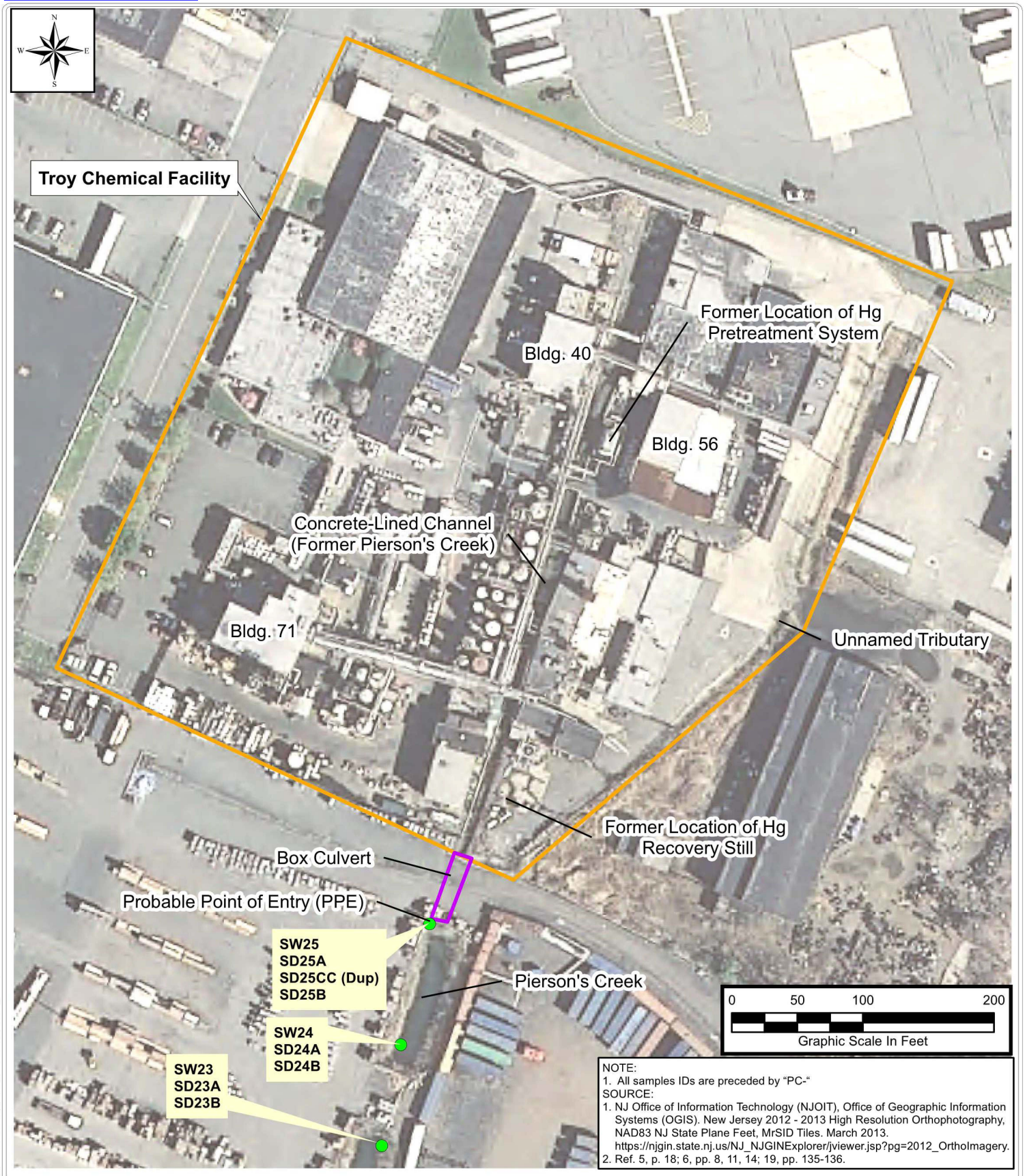
WESTON SOLUTIONS

DATE: August 2013

FIGURE #: 1

P:\SAT2\Piersons Creek\MXD\2013_08_HRS\13534_TCC_Site_Loc_201308.mxd

Figure B-54



NOTE:
1. All samples IDs are preceded by "PC-"

SOURCE:
1. NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS). New Jersey 2012 - 2013 High Resolution Orthophotography, NAD83 NJ State Plane Feet, MrSID Tiles. March 2013. https://njgin.state.nj.us/NJ_NJGINExplorer/jviewer.jsp?pg=2012_OrthoImagery.
2. Ref. 5, p. 18; 6, pp. 8, 11, 14; 19, pp. 135-136.

LEGEND:
- Sample Location
- Facility Boundary

TITLE:

Historical Facility Map
Troy Chem Corp Inc
Newark, Essex County, NJ

PROJECT: Troy Chem Corp Inc

CLIENT NAME: EPA

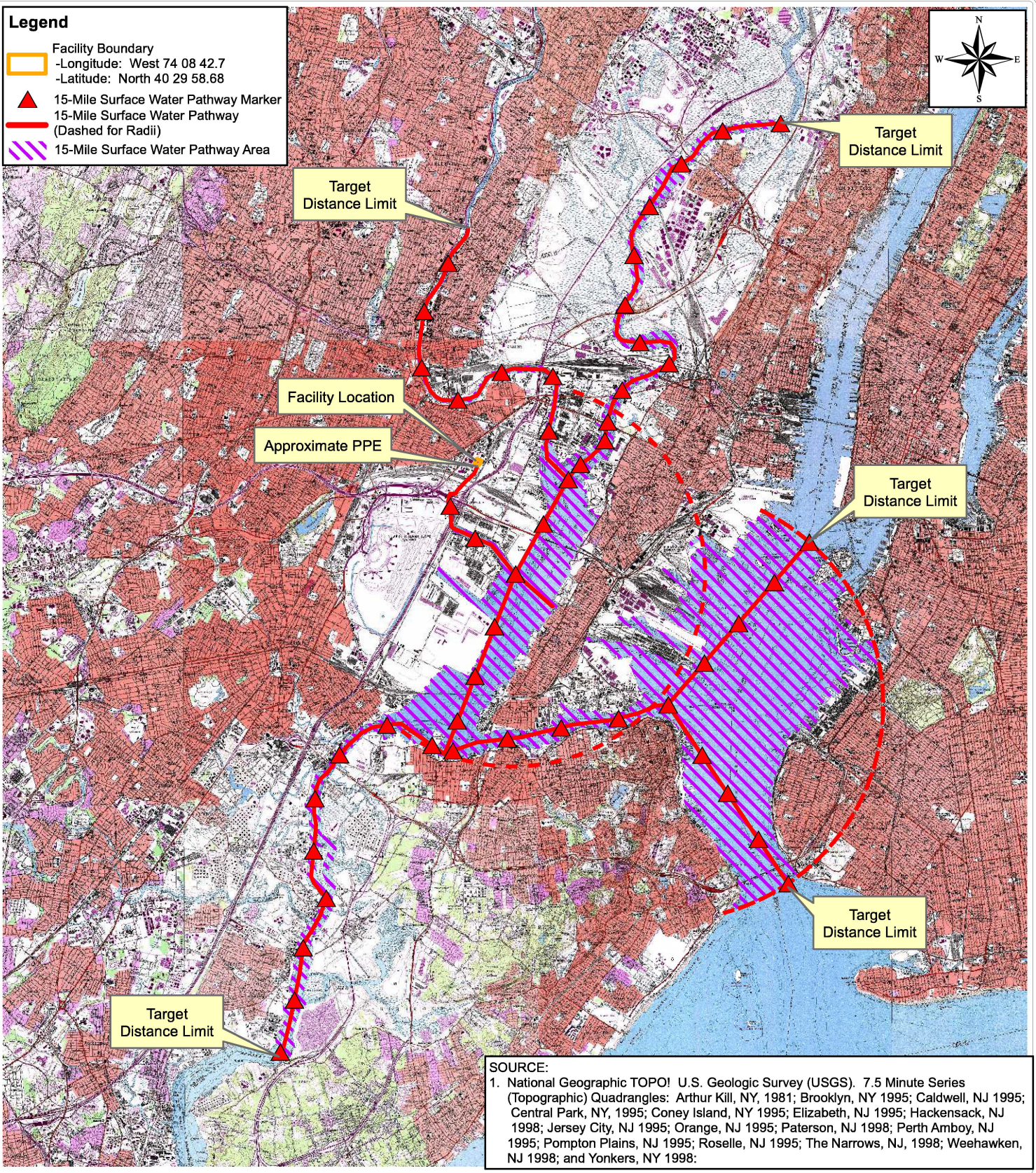
WESTON SOLUTIONS

DATE: August 2013

FIGURE #: 2

P:\SAT2\Piersons Creek\MXD\2013_08_HRS\13585_TCC_Historic_Facility.mxd

Figure B-55



SOURCE:
1. National Geographic TOPO! U.S. Geologic Survey (USGS). 7.5 Minute Series (Topographic) Quadrangles: Arthur Kill, NY, 1981; Brooklyn, NY 1995; Caldwell, NJ 1995; Central Park, NY, 1995; Coney Island, NY 1995; Elizabeth, NJ 1995; Hackensack, NJ 1998; Jersey City, NJ 1995; Orange, NJ 1995; Paterson, NJ 1998; Perth Amboy, NJ 1995; Pompton Plains, NJ 1995; Roselle, NJ 1995; The Narrows, NJ, 1998; Weehawken, NJ 1998; and Yonkers, NY 1998:

LEGEND:

2.5 1.25 0 2.5

Graphic Scale In Miles

TITLE:

Surface Water Migration Pathway Map
Troy Chem Corp Inc
Newark, Essex County, NJ

PROJECT:
Troy Chem Corp Inc

CLIENT NAME:
EPA

WESTON SOLUTIONS

DATE:
August 2013

FIGURE #:
4

P:\SAT2\Piersons Creek\MXD\2013_08_HRS\13535_TCC_Sample_Loc_201308.mxd

Figure B-56

INQUIRY #: 3263219.4

YEAR: 1933

= 500'

N

Figure B-57

Figure B-58

Figure B-59

INQUIRY #: 3263219.4
YEAR: 1954
= 500'
N
EDR Environmental Data Resources Inc

Figure B-60

INQUIRY #: 3263219.4
YEAR: 1966
= 500'
N
EDR Environmental Data Resources Inc

Figure B-61

Figure B-62

Figure B-63

Figure B-64

Figure B-65

Figure B-66

Figure B-67

Appendix B – Tables

Table B-1: Monitoring Well Gauging Data - July 2015 Remedial Approach Report Troy Chemical Property

Well Name	Property	Screened Interval (ft bgs)	Top of Casing Elevation (ft msl)	July 2015 Data		
				Depth to Water (ft)	Depth to Bottom (ft)	GWE (ft msl)
MW-1	Troy	3 - 9	5.96	2.11	7.79	3.85
MW-2	Troy	5 - 10	5.47	1.20	9.02	4.27
MW-2P	Troy	8 - 9.5	5.57	1.97	9.30	3.60
MW-2D	Troy	55 - 60	5.49	2.14	NM	3.35
MW-3	Troy	3 - 9	5.92	1.79	7.83	4.13
MW-6	Troy	2 - 7	7.04	3.82	6.51	3.22
MW-6P	Troy	8 - 10	7.20	6.40	NM	0.80
MW-6D	Troy	56 - 61	7.10	NM	NM	NM
MW-7	Troy	4 - 8	5.98	1.56	7.55	4.42
MW-7P	Troy	8 - 10	5.95	1.49	7.83	4.46
MW-9	Troy	2 - 8	6.63	2.41	7.89	4.22
MW-9P	Troy	8 - 10	6.90	2.45	9.96	4.45
MW-10	Troy	2 - 7	5.70	1.83	6.52	3.87
MW-10P	Troy	7 - 9	5.73	1.78	8.48	3.95
MW-11	Troy	2 - 7	5.19	0.00	6.61	5.19
MW-11P	Troy	7 - 9	5.49	0.60	8.61	4.89
MW-13	Troy	2 - 9	6.29	3.52	8.7	2.77
MW-13P	Troy	9 - 11	6.42	4.73	N/A	1.69
MW-14	Globe Metals	4 - 9	6.81	2.85	11	3.96
MW-15	Globe Metals	3 - 8	6.12	2.15	10.15	3.97
MW-16	Troy	2 - 8	5.53	3.65	7.98	1.88
MW-17	Troy	2.5 - 10	6.04	3.64	10.1	2.40
PZ-4	Troy	NA	7.65	3.07	N/A	4.58
PZ-3	Troy	NA	7.07	3.21	N/A	3.86

Notes:
NM - Not Measured
NA - Not Applicable (surface water elevation monitoring point)
GWE - Groundwater Elevation
ft msl - feet above mean sea level
ft bgs - feet below ground surface

Table B-2: Maximum concentrations of contaminants identified during historical sampling of soils and groundwater at 429 Delancy Street Property

Contaminant	Soil (ppm)	Groundwater (ppm)
1,2-Dichlorobenzene	0.8	-
1,2,4-Trichlorobenzene	0.73	-
1,3-Dichlorobenzene	0.09	-
1,4-Dichlorobenzene	0.32	0.0028
2-Chloronapthalene	4.06	-
Acenaphthene	208.3	-
Acenaphthylene	2.2	-
Aluminum	-	20.3
Anthracene	446.4	-
Antimony	550	0.071
Arsenic	744	0.077
Base Neutrals	717.75	-
Benzene	-	0.026
Benzo(a)anthracene	576.4	-
Benzo(a)pyrene	462.8	-
Benzo(b)fluoranthene	335.6	-
Benzo(g,h,i)perylene	209.4	-
Benzo(k)fluoranthene	417.0	-
Beryllium	2.4	-
Bis(2-ethylhexyl)Phthalate	34.21	-
Bis(2-Chloroethoxy)Methane	0.47	-
Cadmium	390	0.026
Chlorobenzene	-	0.190
Chromium	3,400	-
Chrysene	579.8	-
Copper	150,000	22.6
Dibenzo(a,h)anthracene	2.7	-
Diethyl Phthalate	2.8	-
Dimethyl Phthalate	0.5	-
Di-n-butyl Phthalate	3.6	0.0014
Di-n-octyl Phthalate	1.3	-
Ethylbenzene	-	0.017
Fluoranthene	1,290	-
Fluorene	304.8	-
Hexachlorobenzene	1.5	-
Indeno(l,2,3-cd)pyrene	206.3	-
Lead	83,000	3.52
Mercury	7,600	0.066
Methylene chloride	73	0.022
Naphthalene	217.6	-

Nickel	45,000	1.64
Nitrobenzene	8.49	-
N-Ni troso-di-n-prop y1 amine	0.7	-
N-nitrosodiphenylamine	16	-
PCBs	27,600	-
Phenanthrene	250	-
Pyrene	1,122	-
Selenium	440	-
Silver	5,490	0.035
Thallium	22,000	-
Total petroleum hydrocarbons	77,000	-
Zinc	64,000	15.5